PRODUCT REPORTS 82
PRODUCT IDEAS FOR ARCHITECTS AND ENGINEERS
CASE STUDIES: DESIGN SOLUTIONS THROUGH PRODUCT APPLICATIONS
ARCHITECTURAL BUSINESS: SWEET’S SELECTION DATA
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ARCHITECTURAL RECORD

MID-OCTOBER 1981  A McGRAW-HILL PUBLICATION  SIX DOLLARS PER COPY
The Armstrong Commercial Corlon® Flooring System. A new concept that's been proved in use for over 20 years.
Today, all across the nation, many millions of square yards of Armstrong Vinyl Corlon are performing beautifully. And many of these installations have been in place for over 20 years. That's just one reason Armstrong .090” gauge sheet Vinyl Corlon is one of the most widely specified commercial floors. Another is the system that makes it work.

**It looks monolithic.**

Corlon comes in 6'-wide rolls up to 90' long. You get a monolithic look because there are few seams. For example, you'll have about 93% fewer seams with Vinyl Corlon than with the same area of 12” x 12” tile.

**Epoxy-bonded seams.**

An exclusive Armstrong epoxy adhesive chemically bonds the seams without heat or special tools. They won't come apart. And they won't trap dirt and moisture.

**Wide range of colors and designs.**

Armstrong Vinyl Corlon comes in five distinctive chip patterns and 32 colors ranging from bright and modern to neutral and natural.

**Coving where dirt can't hide.**

Flash-coving makes it simple to create a gentle radius where floor meets wall, eliminating the sharp corner where dirt can hide.

**The pattern lasts and lasts.**

Armstrong Vinyl Corlons are inlaid materials. Because the pattern and color go all the way through to the backing, they won't wear off like printed products. And because the inlaid construction is smooth and dense, spills wipe right up. Simple regular maintenance keeps the floor looking like new. These resilient floors meet the flame-spread and smoke-developed requirements of the most widely recognized building codes and regulations.

Vinyl Corlon floors can be installed with a perimeter bonding system developed by Armstrong. In most cases, you can install them right over an old floor and eliminate a lot of work and expense.

The Armstrong Vinyl Corlon Commercial Flooring System. Specify it, and you'll get one beautiful long-lasting floor. For more information, write Dept. 19FAR, Lancaster, PA 17604.

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Learning what's new from the manufacturers; the more you know, the more options you have

Not a lot of readers write and tell us that this Product Reports issue that we publish every mid-October is one of their favorites. This issue doesn't stir up the kind of controversy that we generate by publishing, say, Michael Graves's Public Services Building in Oregon. It doesn't stir up the letters of admiration that we generate by publishing, say, Fay Jones's Thorn Crown Chapel in Arkansas. But it stirs up interest—our readership studies tell us this is one of the year's most-looked-at issues, and our conversations with architects tell us the same thing. A typical comment is along these lines: "Yeah, we look it over pretty carefully—it gets dog-eared. You really do need to check out what's new..."

Similarly, I can reliably report this issue is not the most fun we have all year. First, you write to everyone inviting submissions. You read more than a thousand news releases. You sit down and write some seven hundred new product items, and two or three hundred literature items—"and keep it under 14 lines or we'll have to do a lot of cutting when the galleys come in." You size nearly a thousand photos, and then you get the right picture with the right copy and get it into the right subdivision (there's about a hundred of them, it seems) within the standard UCI format. But we do it because it is an important part of our work—which is helping architects and engineers do their work.

Indeed, the search for new-product ideas to pass on to you readers goes on all year. As a group we editors probably attend well over 100 press conferences a year, and talk with literally hundreds of people representing manufacturers or producers at our office. We attend—and scour the exhibitions at—a score of shows including the NAHB show, the AIA convention, NEOCON, the CSI convention, West Week, Designer's Saturday. We're looking not just for new product information to pass on—but for good case-study applications. Like those featured in this issue: the way DMJM used ceramic tile on the exterior of a Los Angeles health clinic; the way architects HNTB used brick inside and out in their addition to the St. Louis Art Museum; the way The Luckman Partnership, in designing an office building for Warner Brothers in beautiful downtown Burbank, used—for the first time—curved reflective glass. This issue also includes a piece on the newest service from Sweet's—their new Selection Data, which offers objective, generic, product information. It includes over 850 pages of generic product information assembled in 20 major and separate product categories—and is intended to make those invaluable Sweet's Catalogs even more valuable.

And so, when all is said and done and proofread, we are proud of this Product Reports issue. May you find in this issue 100 solutions to your design and specification problems—and 100 fresh ideas you can use.

How to use this issue
This year, Product Reports is organized as usual on the 16-division UCI format. The page number of each division can be found on Contents pages 2 and 3. More information on any product or service in this issue can be easily obtained by using the Reader Service Inquiry Cards on pages 5 and 201. There are Circle Numbers for more information on the products in any advertisement; and for more information on any product or literature item in the editorial pages you simply need write in the number of the item in boxes provided on the Reader Service Inquiry Cards. Advertisers in this issue are indexed on page 197; companies whose products appear in the issue are indexed on pages 198-200. —Walter F. Wagner
The creative use of brightly colored ceramic tile on the exterior of the Roybal Comprehensive Health Center in East Los Angeles is an architectural response to the ethnic heritage of the neighborhood as well as for decorative purposes. Bands of various colors ring the building (photo middle right) and contrast with the reinforced concrete shell. Of special visual interest are intricately designed geometric patterns which also serve on one elevation to announce the entrance (drawing and top photo, and photo far right).

A new family practice health center has become a local symbol of ethnic cultural heritage in this predominantly Mexican-American East Los Angeles neighborhood. To strengthen the local inhabitants' identification with the structure, and thereby encourage people to use its services, the selection of brilliant, rich colors was thought by the architects to be appropriate since this is one of the most characteristic elements of Mexican decorative arts. Ceramic tile also seemed a natural material to specify because of its distinctive visual quality and color-intensive glazes, easy maintenance, and relatively low cost. As a result, the combination of color and materials have created a building with a striking presence in the neighborhood.

Glazed ceramic tiles in 11 colors cover 24,000 square feet; three of these colors are standard, with the remaining eight having custom glazes. The tiles are set in ribbons encircling the windowless, four-story structure (two levels of which are medical facilities, and two are parking floors). Broad bands run along the longest north and south elevations; and strong geometric, angled patterns were designed for the other elevations, particularly prominent on the facade (top left) focusing on the entrance.

A 300-foot-long frieze, also made of ceramic tiles, depicts scenes from the life of an 11th century Mixtec chieftain named Eight-Deer Ocelot-Claw. Gathered from pictographs in the Nuttall Codices (an historical painting done shortly before the Spanish Conquest), 99 scenes are reproduced three-and-one-half feet high, with motifs applied by hand in glazes of a dozen different colors.

While the interiors are planned in a straightforward manner, equally bold colors are carried throughout the corridors and service core as a circulation/orientation device; and softer colors delineate waiting and treatment rooms.

Ceramic tiles, with standard or custom glazes, were developed by Franciscan Ceramics, Inc., in Los Angeles.—Janet Nairn

ARCHITECT-DESIGNED BRICK HIGHLIGHTS ADDITION TO ST. LOUIS ART MUSEUM

As part of a grand and comprehensive program to upgrade all the facilities of the St. Louis Art Museum in Forest Park, architects Howard Needles Tammen & Bergendoff (HNTB) have recently completed a new addition that connects to the famous landmark Beaux-Arts structure designed by Cass Gilbert in 1904, and restored earlier by Hardy Holzman Pfeiffer Associates — HHP — (Record October 1978). The primary challenge for HNTB was to design what is essentially a modern office building adjoining the classical structure, within a strict budget. Their solution was a separate building, located just behind the museum on the site of an earlier 1950s building, and connected to the museum by only an underground corridor, and on grade level with a sculptural terrace/garden. The 52,000-square-foot structure steps away from the museum, reaching four stories at its highest point in an attempt to make the whole southern elevation of the museum more visible. The auditorium of the 1950s building was the only portion retained in the new addition, which now serves for offices, storage, gift/book shop, classrooms and library.

A special double-arched brick (drawing top right)—custom designed by HNTB and HHP, and manufactured locally by Beldon Brick Company—was used in three variations interspersed with standard brick to form textured spandrel bands. These horizontal strips are visually quite prominent, contrasting to dark solar bronze glass, while the buff grey color complements the masonry of the Gilbert-designed building. The brick was also carried into the interiors as facing for the walls of public spaces.

In recent years there has been a comeback in the wide use of masonry, for no longer is masonry more expensive than other materials. The selection of brick for this building once again demonstrates the kind of building products that the architects sought out in order to create a special visual statement. — Janet Nairn

A double-arched brick designed by the architects, detailed in this isometric drawing, was used on both the exterior and interior as a unifying design element. Its visual effectiveness is most noticeable when viewed close-up, as seen in contrast to solar bronze glass (far left), and in the main corridor (below left) and waiting area (below right).
GLASS CURTAIN WALL CREATES SLEEK IMAGE FOR WARNER BROTHERS OFFICE

All one need do is walk across West Olive Avenue from the front door of Warner Brothers' Burbank Studios to the front door of their newest office building to immediately sense the new commitment of this Warner Communications subsidiary, a direction that can perhaps be also broadly representative of the thrust of the Hollywood film industry towards a more dynamic corporate identity. This new, sleek mirror-glass building designed by The Luckman Partnership, Inc., not only literally reflects the Warner Brothers 1925 Mission-derivative corporate offices and studios, but is technologically innovative in how it does so. Though it is the first multi-use complex to make extensive use of curved glass, more impressive is the fact that it is the first to use curved reflective glass. The glass skin is flush without visual interruption of conventional mullions—it appears as a tightly drawn wrapper around a package.

Because the building is located in a low-rise neighborhood with an interesting mix of film studios and single family residences, and fronts on a heavily trafficked street, the architects did not favor a high-rise structure, nor did they want on the site anything that “resembled a battleship.” The result is a 325,000 square foot building, six-stories-high (of which the top three floors are offices, the other three levels above grade are parking, as well as a lower level). The architects tried to make the building visually less bulky in various ways. The massing is broken up through organization of elements into distinct, saw-tooth-shaped sections but with rounded edges to soften angularity; this form resulted partly from the irregular-shaped site and partly from interior functions. Open-air balconies provide visual indentations, and afforded user amenities as well. The structure was sheathed in 90,000 square feet of bronze reflective monolithic glass in both vision and opaque areas to further mask its size.

The reflective-glass curtain wall incorporates flat and radius-bent glass components set in horizontal and vertical setbacks, joined by silicone sealant employed in a special technique that eliminates the need for conventional mullions. The skin is remarkably free of visual distortion. (Pittsburgh Plate Glass Company supplied the flat plate glass; the California Glass Bending Company formed the curved units. And Flour City Architectural Metals Corporation erected the curtain wall and performed the glazing.)
Curved reflective (heat-strengthened) glass used on this Warner Brothers office in Burbank, California, was specially manufactured according to the architect's specifications. It is set flush without using conventional mullions. The detail (bottom left) shows venting space behind panels to minimize heat build-up.
The organization of the interiors is very responsive to the need for flexible space of the primary users, film-production staffs. A typical space-use pattern is: the production team starts small, increases as production progresses, and reduces again as work winds down. To accommodate this pattern, office suites can be created or changed at any time without moving large partitions. Both perimeter and inside windowless offices, located along a double corridor system, can be isolated (see plan) by simply snapping in prefabricated corridor-width panels. A typical circulation pattern for the visitor is to move from the central building core through an inside office with receptionist, secretary and pro-

duction staff assistant, to the secondary corridor, off which are the perimeter offices for production executives.

Through the commitment of the architect, client and manufacturers, what has been called a "striking advance" in curtain wall technology has helped to create a strong and striking architectural image.—Janet Nairn

Addition to Sweet’s Catalogs offers generic product information

SELECTION DATA—a one-volume compilation of objective, generic product information—will be offered for the first time as part of the General Building Files of 1982 Sweet’s Catalogs. Developed in conjunction with the American Institute of Architects and other major industry associations, it is intended to be a resource tool, along with manufacturers’ information already in Sweet’s, for the specifier during the critical process of product selection.—Janet Nairn

In this year of the 75th anniversary of Sweet’s Catalogs, the company is making a significant move in its continuing approach to updating product information by installing Selection Data as part of the General Building Files. Generic product information in the past has often been difficult to find, and when discovered it was often unorganized. Sweet’s has now done this work for the specifier, by assembling and organizing information in a systematic manner in 20 major product categories. The material has been specifically designed to enable the user to quickly find, evaluate and compare basic product types early-on during the design development and product selection stages.

Provided are: evaluation charts for a comparative overview of basic materials, their properties, and uses and limitations; selection checklists as step-by-step guides to the factors needed in making product decisions; firms and products checklists to steer the user directly into the manufacturers’
information in Sweet's catalogs; and information sources—associations, government agencies, and regulatory agencies publishing pertinent information as well as industry standards. (An example of how to use Selection Data is outlined below.)

Selection Data was first developed in 1978 by Sweet's in conjunction with the American Institute of Architects and other industry associations in response to the expressed need by construction professionals for a single source of unbiased generic product information. Within the last two years, this information was sold as a two-volume set, separate from Sweet's, and 9,000 professional firms have been using it. Now that it will be incorporated into the 1982 Sweet's version, the information has been again updated and expanded.

An example of how to use Selection Data is outlined below. In the selection of flooring, steps 1-5 briefly explain the process from "requirements and characteristics diagram" to flooring "firms and products" shown in catalog pages (right).

Step 1: Thinking of the space to be floored, identify the resulting service conditions and performance characteristics required.

Step 2: Keeping service conditions and type of substrate in mind, review the general types of flooring that may be suitable for the space.

Step 3: Now review the specific flooring types available, their relative cost and the detail-use conditions for which they are suitable. Identify the two or three best choices. Read the selection checklist for further guidance.

Step 4: Review in detail the performance characteristics of the flooring still under consideration. Keeping this information in mind. . .

Step 5: Look-up the manufacturers' catalogs in Sweet's that offer the specific products you have tentatively selected. Make your final selection from the catalogs, using all the knowledge gained from Selection Data to help evaluate the information provided.
COMPUTERS

1 REMOTE PLOTTING / Versatec’s “444” remote plotting work station performs remote job entry, electrostatic plotting/printing and graphics manipulation functions: scaling, rotation, mirroring, windowing. Work station is compatible with both Versaplot and IBM software. / Versatec, a Xerox Co., Santa Clara, Calif.

2 GRAPHICS STATION / A new option for the “CC-80” graphics work station, a tablet that incorporates a pen style, provides enhanced versatility for cursur control and data input. / Auto-Trol Technology Corp., Denver, Colo.

3 FACILITIES PLANNING / For space management and facilities planning, the SpaceMan software system is said to combine features previously unavailable in a single system. User-oriented and based on a desk-top Tektronix computer, the program can enter floor and site plans, locate furniture and equipment, and produce drafting-quality drawings at any scale. / Iconica Inc., Oakland, Calif.

4 REMOTE TERMINAL / The “120V” work station allows the full power of Calma graphics systems to be located almost anywhere: a virtually limitless number of terminals can be added to the interactive graphics system with no loss of computing power or speed. / Calma Co., Santa Clara, Calif.

5 CADD SYSTEM / Said to be a cost-effective computer-aided design and drafting tool, the “Sigmagraphics II” is a 2-D and 3-D system which automatically dimensions drawings, provides isometric and perspective views, and has full text handling capabilities. It has been installed in architectural firms from two people to 80. / Sigma Design Inc., Englewood, Colo.

6 COMPUTER SYSTEM / The HP 125 computer, a new low-cost office computer, is ideal for use in architectural firms. It combines the features of a word processor, computer terminal, financial calculator, and graphic work station in one desktop system. / Hewlett Packard, Palo Alto, Calif.

7 COMPUTER GRAPHICS / The Touch ‘N Draw design and drafting system can develop production drawings, estimates and presentations. Turn-key systems, requiring no previous computer experience, range in price from $53,000 to $104,000. System illustrated is priced at $82,000. Five-year leases are available. / Arrigoni Computer Graphics, San Jose, Calif.

8 COMPUTER-AIDED SYSTEM / The EasyDraf computer-aided system offers significant productivity increases over manual drafting methods. Within three months, drafters can raise output three to 20 times, depending upon the type of project involved. / AMBruning, Itasca, Ill.

9 PERSONAL COMPUTER / This expandable, low-cost computer system for home or office features a memory capacity up to 262,144 characters, color/graphics capabilities, and a high-speed microprocessor. The computer can be connected to color or black and white screens. / IBM Corporation, Boca Raton, Fla.
INFORMATION SYSTEMS

10 ACOUSTICAL TESTING / A number of architectural and engineering services are offered by an independent facility specializing in consulting, testing and monitoring. The firm's acoustical analysis laboratory evaluates open-plan furnishings, acoustical ceiling and sound masking systems. / Intest Laboratories, Inc., St. Paul, Minn.

11 CONTROL BOARD / The Omni-Board is an 8½-in. by 11-in. plastic sheet grooved every ¼-in. The lightweight board can be easily photocopied and the job cards are easily transferable. / Raymond Nicholas Advertising, North Plainfield, N.J.

MAINTENANCE/ OPERATIONAL EQUIPMENT

12 DRAFTING SYSTEM / The modular VR 20 Drafting System combines with a matching reference desk, bookcases, or custom drawer arrangements for an organized work area. Bright accent colors and brushed chrome framing are available. / American Hamilton, Two Rivers, Wisc.

13 PROJECTOR / The Artograph DB 300 Direct Table-Top Projector is a lightweight, economical unit, which attaches to any drawing table and projects down directly onto the work surface. It projects in color, opaque copy, three-dimensional objects, slides and transparencies. / Artograph, Inc., Minneapolis, Minn.

14 TAPE LETTERING / The Kroy "XL" machine creates "type on tape" lettering, on a number of tapes from ½-in. to 2-in. high. / Kroy Industries, Inc., Graphics Div., St. Paul, Minn.

15 LETTERING MACHINE / An electronically controlled, portable machine, the "Kad II Auto Draw" draws characters, symbols, etc. with liquid ink onto any surface. Unit consists of a plotter, controller and template module. / Koh-I-Noor Rapidograph, Inc., Bloomsbury, N.J.

16 GRAPHICS STORAGE / A single-sheet vertical filing system, the "MasterFile 2" meets the special storage requirements of vellum, linen and film original graphics. Pre-punched, self-adhesive carrier strips allow multiple size documents, up to 48-in. wide, to be hung from the pin and post system. / Plan Hold Corp., Irvine, Calif.

17 DRAWING PENCIL / Said to be the world's only non-stop pencil, the "TK-matic" fineline instrument has a pump-action device, which automatically advances the 0.5mm lead as the pencil is used. Pencil is available with all-metal or black barrel, priced at $35 and $25, respectively. / Faber-Castell Corp., Newark, N.J.

18 DRAFTING TABLE / Futur-Matic tables feature finger-tip controls for automatic tilt angle and top height adjustments, from horizontal to 90 deg or from 30- to 50-in. in height. Top sizes range from 48- to 72-in. / Mayline Co., Inc., Sheboygan, Wisc.

19 CUSTOM APPLIQUES / A new service offered to architects and engineers, custom titleblocks, symbols of designs can be silk-screened onto Saga Stylhak one-mill film. Custom-printed formats as well as a full line of drafting supplies are also available. / Saga Div. of Dade, Inc., Minneapolis, Minn.

20 DRAFTING TABLE / The redesigned "PlanMaster Plus" table has a new non-glare top, stiffer top construction, and new colors for base and accessories. The drawing surface has 13 pre-set angles—flat to 60 deg—and may be adjusted without resetting drafting equipment. / Plan Hold Corp., Irvine, Calif.

REPRODUCTION EQUIPMENT

21 DIAZO TABLE / A useful "Stor-way" accessory table, color-coordinated with all Diazt copyng machines, is now offered as an option with any of this maker's old or new table-top copiers. With the copier, it forms a compact, mobile reproduction center. / DIAZIT Co., Inc., Youngville, N.C.
1: OFFICE EQUIPMENT

ADHESIVE APPLIQUES / A brochure introduces custom formats in a line of pressure-sensitive appliqués for A-E's drawings. Sheets described in the publication are available in several sizes and on a wide variety of vellums and Mylars. Details and symbols are for use on floor plans, diagrams, bills of material, heating/ventilating diagrams. © Stanpat Products, Inc., Port Washington, N.Y. circle 3000 on inquiry card

COMPUTER ANALYSIS / A foldout brochure introduces a computer service which evaluates the potential energy cost savings that can be achieved by retrofitting the walls of industrial and commercial buildings. The publication documents a case history in which a company realized a $140,000 savings in heating costs the first year. © H.H. Robertson Co., Pittsburgh, Pa. circle 3005 on inquiry card

LAYOUT PLANNING / A two-volume book, called Systematic Planning of Industrial Facilities, offers a "total approach" to planning an industrial plant. The publication costs $80.00. © Management and Industrial Research Publications, Kansas City, Mo. circle 3006 on inquiry card

CAD/CAM SYSTEM / A 12-page booklet presents a line of computer-aided design and manufacturing systems. The manufacturer offers systems for use in the design and layout of microelectronics, for drafting and mechanical design and a number of other applications related to all segments of the construction industry. © Calma Co., Santa Clara, Calif. circle 3002 on inquiry card

GRAPHIC ART AIDS / Over 200 additions to a line of "Formatt & Formaline" pressure-sensitive art aids are introduced in "Catalog No. 7," now available from the manufacturer. Included are 143 sheets in the new line, displaying new lettering styles, borders, symbols, ornaments and shading mediums. © Graphic Products Corp., Rolling Meadows, Ill. circle 3003 on inquiry card

ANCHORING SYSTEM / A 6-page foldout features the "Carboloy" resin anchoring system, designed for strengthening old stone or concrete structures, highway and bridge construction and a variety of other structures. Charts summarize resin anchorage strength, volume requirements and cure time. © General Electric, Houston, Tex. circle 3008 on inquiry card

SITE FURNISHINGS / A color brochure presenting the manufacturer's line of wood site furnishings is available. The products cataloged include trash receptacles, benches, planters, and a variety of other interior and exterior furnishings. The brochure contains product descriptions, specifications and ordering information. © Sitecraft by Rosenwach, Inc., Long Island City, N.Y. GB. circle 3011 on inquiry card

PARKING AREA PLANNING / "How to Plan Parking Areas" is a short guide which provides step-by-step instructions on how to lay out a lot. Sample templates are provided for drawing 30 to 90 deg stall angles. Also included: drawings for entry and exit control systems, dimensions for ramp and driveway design. The booklet costs $1.00. © Security Products, Hinsdale, Ill. circle 3013 on inquiry card

WOOD FOUNDATION / A revised guide to the American Plywood Assn.'s "All-Way" Foundation" describes each component of the system, and details its installation step-by-step. Tables and charts explain minimum structural design requirements and soil variations. © American Plywood Assn., Tacoma, Wash. circle 3014 on inquiry card

HYDRAULIC MULCHING / The ease of applying one-step hydraulic mulching is emphasized in a foldout brochure. The text discusses other advantages to using this system, particularly when a large area is to be covered. Four-color photographs show the mulch, which includes the manufacturer's Hydro Mulch® fibers. © Conwed Corp., St. Paul, Minn. circle 3010 on inquiry card

TANK INSTALLATION / A new techniques manual offers complete guidelines for proper installation of underground Fiberglas reinforced plastic storage tanks. © Owens-Corning Fiberglas Corporation, Toledo, Ohio. circle 3007 on inquiry card

SITECRAFT / "How to Plan Parking Areas" is a short guide which provides step-by-step instructions on how to lay out a lot. Sample templates are provided for drawing 30 to 90 deg stall angles. Also included: drawings for entry and exit control systems, dimensions for ramp and driveway design. The booklet costs $1.00. © Security Products, Hinsdale, Ill. circle 3013 on inquiry card

THREE GRATES / A 24-page publication shows a line of cast-iron tree grates for use in malls and street plantings. Over 60 size and design variations are available, each of which is shown. The grates are available in square, round, oval and octagonal shapes, offering a wide range of decorative looks; special custom designs are also offered. © Neenah Foundry Co., Neenah, Wis. GB circle 3010 on inquiry card

* In 1982 Sweet's Catalog File (1): General Building (GB); Light Residential Construction (LRC); Engineering (E); Interiors (I); Industrial Construction & Renovation (ICR) (1) first time in Sweet's.
FOUNTAINS & POOLS

34 Fountains / This multi-jet water display in front of the Crystal Cathedral in Garden Grove, Calif., is a recent example of the custom architectural fountains designed, manufactured and installed by Kim Lighting. / Kim Lighting, City of Industry, Calif.

LANDSCAPING

35 HYDRAULIC MULCHING / Conved Hydro Mulch is often used for turf establishment at building sites. The process requires a one-step application of seed, fertilizer and Hydro Mulch fibers. / Conved Corp., St Paul, Minn.

PAVING & SURFACING

36 STREET PAVERS / Crosswalk pavers installed on Avenue D in Brooklyn, N.Y., use black and white Interlock units for high visibility. Also available in several earth tone colors, pavers have chamfered top edges to provide a smooth walking surface. / Interlocking Paving Manufacturers Assn., Great Neck, N.Y.

37 CONCRETE PAVING / One of a series of new concrete paving designs from Bomacron, this slate texture is laid in an ashlar pattern. Textures are imprinted onto the surface of freshly placed concrete with special tools. / Bomacron Corp., Palo Alto, Calif. GB, LRC, E.*

RECREATIONAL FACILITIES

38 FITNESS COURSE / The Fit-Trail outdoor exercise and conditioning system has been re-designed to offer an improved total fitness approach, more versatile exercise apparatus, and a more attractive course. One of 20, Station 7 (shown here) illustrates the timber construction of the equipment and new white-on-blue instructional signage. / SouthWood Corp., Charlotte, N.C.

SITE DRAINAGE

39 TRENCH DRAIN / The "Channel Slope" precast drain is a modular system made from polyester or vinylster resins, highly resistant to corrosive materials. / ACO Drain, Inc., Cleveland, Ohio.

SITE FURNISHINGS

40 PLAY FORMS / Free-form playground sculpture includes climb-on camels, a turtle and a porpoise, playwall and castle, and the "moonhouse" shown here. Forms are made of smooth-surfaced reinforced concrete permanently colored with metallic oxides. / Wausau Tile, Wausau, Wis.

41 SITE FURNITURE / The "Trestle Group" of benches, tables, kiosks, and trash receptacles is said to work as well in traditional, downtown renovation areas as in contemporary malls and atriums / Landscape Forms, Inc., Kalamazoo, Mich. GB.*

42 CONTOUR BENCH / Model "2140" bench combines kiln-dried Douglas fir timbers with a steel support base, in lengths of 6', 8', and 10-ft. Bench can also be ordered for complex inside or outside corner installations. Prices start at $305. / Columbia Cascade Timber Co., Portland, Ore. GB*
3 TREE GRATES / Made of concrete in Natural gray and Goldenrod colors, four 24-in. "quads" form a protective and decorative tree surround. Grates are sand-set at lower sub-grade than other paving stone or block materials to give a flush, finished grade installation. / Wausau Tile, Wausau, Wis.

4 PARK BENCH / Neo-classic Tim-merform cast iron and hardwood bench weighs nearly 300 lb, rugged enough for urban parks and transit halls. Cast ends come in a variety of colors or electroplated. Unit price: $495. / Columbia Cascade Timber Co., Portland, Ore. GB*

5 TRASH RECEPTACLE / Constructed of heavy-duty gel-coated plastic with solid oak accent panels, contemporary design available. / Woodcrafters of Florida, Inc., Jacksonville, Fla. GB*

46 STREET FURNITURE / A series of benches, other seating units, and tables are constructed of steel tubing and wire mesh. Metal has a long-lasting dipped plastic finish said to withstand heavy use. / Forms & Surfaces, Santa Barbara, Calif. GB* 1*

47 MARBLE FURNITURE / Designed for large architectural spaces, modular bench slabs and ends, tables, planters and smoking urns are made of marble or travertine. / Forms & Surfaces, Santa Barbara, Calif. GB* 1*

48 TABLES / Installed here in an alcove with wall-mounted benches, the "Regency" table has border members of dressed 3/4" by 3/4" in. redwood. Pedestal-mounted table measures 36-in. square. / Sitecraft by Rosenwach, Inc., Long Island City, N.Y. GB* 1*

49 BICYCLE SECURITY / Rack III high-security racks have three epoxy-coated steel bars that protect bicycle frame and both wheels. User's padlock fits into a see-through cage that protects the lock against prying and bolt cutters. / Rack III Bicycle Racks, Oakland, Calif.

50 SEATING / "Columbus Circle" stools are 18-in. in diameter, constructed of 2- by 6-in. California redwood, or other species if desired. Steel pedestals may be installed on the surface, slab or embedded. / Sitecraft by Rosenwach, Inc., Long Island City, N.Y. GB* 1*

51 BICYCLE SECURITY / A two-component unit, "Model RR300" offers "roll-in-roll-out" convenience security for bicycle frame and both wheels. New features include a heat-fused polyester coating, rolled edges and added mounting hardware. / Rally Enterprises Inc., Sonoma, Calif. GB*

52 CIRCULAR BENCHES / Supported by two steel pedestals or brackets per section, redwood benches can be installed in a full circle— as here around trees—or in separate curved segments. / Sitecraft by Rosenwach, Inc., Long Island City, N.Y. GB* 1*

53 TREE GUARDS / Available in several designs, fabricated steel guards bolt to tree grates to provide protection for young trees. Also available "Rustic Red" prime-coated or asphalt-coated. / Neenah Foundry Co., Neenah, Wis. GB*

SOIL TREATMENT

54 SOIL CONDITIONER / Sol'n Soil gypsum is a soil conditioner that loosens tightly compacted soil, allowing water and essential nutrients to reach the roots. Sol'n Soil is completely natural, non-caustic, non-toxic and safe for plants, pets and people. Gypsum contains calcium and sulfur and won't appreciably alter the soil pH. / U.S. Gypsum Co., Chicago, III.
practically perfect...

Too often architects, interior designers, and specifiers have to choose between aesthetics and practicality. It's a tough choice. And the result is usually a lot less than perfect.

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CAST-IN-PLACE CONCRETE

67 COMPOSITE STRUCTURE / A labor-saving method of multi-level construction, the ECOMBOFRAME composite structural system consists of poured-in-place structural floor. The superstructure is about 50 per cent lighter in weight than conventional concrete frames, and eliminates much of the need for shear walls. Application pictured: Harbor Towers, Portsmouth, Va.; Cossutta & Assoc., architects / Ecombro® Systems Inc., Baltimore, Md.

CONCRETE ACCESSORIES

68 CONCRETE ACCESSORIES / To implement this manufacturer's Tremix Concrete Vacuum Dewatering System for high-density, high-strength floor slabs, a compact vacuum pump, suction mats and patented filter pads have been added. / Linden-Alimak Inc., Bridgeport, Conn.

69 CONCRETE FINISHER / A concrete finisher that will fill, seal, level, texture, and finish masonry surfaces is called "Concrete finisher." The product becomes a part of the surface. / Tamms Industries Co., Itaca, Ill.

70 TEXTURED FINISH / A new method of finishing concrete with an overall-textured surface is now available from this manufacturer. The new technology, called SOMACON®, pattern and texture are imprinted on the entire colored concrete surface of paving or flooring / Bomanite Corp., Palo Alto, Calif.

71 COURT WALL FINISH / The Surewall surface bonding cement system is recommended for racquet and handball courts indoors and out: it produces a smooth, monolithic wall that resists suction and impact. Play off the Surewall is said to be true and fast, with improved ball control. / Surewall Producers Council, Charlotte, N.C.

72 REBAR CUTTER / The "Diamond DC-19" cutter can cut number 6 rebar in less than five seconds. Its electric motor actuates a hydraulic cylinder which produces a cutting pressure of over 15 tons. The tool weighs only 25 lb, and is portable for use on job-site locations. / Benner-Nawman, Inc., Pleasant Hill, Calif.

CONCRETE FORMWORK

73 FORM LINERS / The Lasco Formliner will now be available in northern Mid West and Eastern states. These fiberglass reinforced liners are said to be ideal for adding pattern and texture to tilt-up, precast or cast-in-place concrete. / Precio Industries Ltd., Plainview, N.Y.

CONCRETE MATERIALS

74 PIGMENTED CONCRETE / The matching earth-toned roof tiles and driveway pavers used on this Florida home are made of concrete colored Bayferrox synthetic iron oxide pigments. / Mobay Chemical Corp., Pitts- bushurg, Pa.

CONCRETE REINFORCEMENT

75 SHELL REINFORCEMENT / Used extensively in mine construction, Ber- nold metal sheets are now being used in residential, commercial and industrial earth-sheltered buildings. Sheets perform both forming and reinforcing functions in shell concrete. / United States Gypsum Co., Chicago.
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Architect: Geo Cannon Young

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Bottom photo was taken August, 1954; top photo, Sept. 1980.

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SIMULATED MASONRY

88 MANUFACTURED STONE / Made of lightweight concrete, aggregates and iron oxide colors, Eldorado Stone is said to duplicate the shape and texture of any natural stone. It may be installed indoors or out; no wall ties, footings or special structural support is needed. / Eldorado Stone Corp., Kirkland, Wash. GB, IRC*

89 DECORATIVE MASONRY / Missing or damaged architectural ornamentation can be reproduced in a fiberglass composition, custom molded, colored and weighted to match the originals. Casts can be reinforced as needed, and weather-proofed for outdoor applications, such as this exterior facade in New York City. / Sirmos, Inc., New York City.

STONE

90 AGGREGATE FINISH / “Large Aggregate” natural stone and epoxy Samspray panels are shown here in “Monterey Sand” color, installed with clear anodized aluminum moldings. Samspray building panels are guaranteed for 10 years. / Samspray Corp., Santa Clara, Calif. GB*.

UNIT MASONRY

91 EUROPEAN MASONRY DESIGN / Recently introduced to the U.S. from Europe is this “EarthStone” concrete block (shown). Along with two companions, “PavingStone” and “AcousticStone,” they all are claimed to be strong and economical materials for constructing retaining walls, paved surfaces and noise abatement walls. / Prefab Systems Int., San Diego, Calif.

92 HIGH BRICK / A mahogany finish, with a shade range match similar to a salt glaze, is offered in nominal 8- by 8-in. and 9- by 16-in. face sizes with four-in. bed depths. Each structural high brick unit, vertically cored, is over 60 per cent solid, and conforms to ASTM C-652 Type HBX, Grade SW. / Stark Ceramics, Inc., Canton, Ohio. GB, ICR, E*

93 SOUND ABSORBING / A new size Soundbox, 12-in-thick structural masonry unit has septum-type filler and funnel shaped slots. This “Type R” unit is said to provide excellent sound absorption over a wide frequency range, and has an NRC of .70. / The Broadfoot Co., Inc., Greenwich, Conn. GB, ICR*

94 CERAMIC GROUT / Durabond floor grout, “AR-20”, acid-resistant colored grout, and “C-100” commercial Druset wall grout are now offered in moisture-resistant 10-lb “milk carton” packages. Larger units for big jobs are also available. / United States Gypsum Co., Chicago.

95 GLAZED TILE UNIT / An 8- by 8-in. face size structural glazed facing tile has been added to the Stark Line. It will be available in 2- and 4-in. bed depths with compatible corners and sills, in all 24 standard tile colors. / Stark Ceramics, Inc., Canton, Ohio. GB, ICR, E*

96 LOAD-BEARING BRICK / The “Atlas” 16-in. burned clay unit brick costs less per sq ft and lays as fast as 12-in. brick. Its compression strength is several times that of concrete block. It will be available in four standard colors and three widths. / Interstate Brick and Ceramic Tile, Inc., West Jordan, Utah.
FASTENERS & SUPPORTS

109 GRATE CLAMP / A one-piece, reusable fastener developed for installing grating panels, the EPT clamp eliminates the need for wiring or other interim grating attachments required by OSHA during construction. / Engineered Products, Inc., Richfield, Ohio.

GRATINGS

110 SAFETY GRATING PLANK / A new all-steel safety grating plank has been designed for heavy-duty walkways, work platforms, decking and mezzanines. It is made of extra heavy 18- and 14-gauge steel, and fabricated into a one-piece interlocking channel grating. / Bernard Franklin Co., Philadelphia, Pa.

111 LIGHT-GAUGE FRAMING / A complete line of Super-C galvanized steel studs, tracks, floor joists and related accessories are available, including technical information and design assistance. The system provides greater strength with less weight, faster erection and less handling. / Chicago Metallic Corp., Chicago, Ill.

METAL FABRICATIONS

112 STEEL FIBERS / Dramix steel fibers for concrete reinforcement are claimed to offer dramatic improvements in strength, toughness and shock resistance for almost any concrete application. / Bekoart Steel Wire Corp., Warren, Ohio.

113 ALUMINUM DAMPER-LOUVER / The model 7151 Penthouse is constructed from extruded aluminum louvers with blades at 45-deg. angle for durability in rooftop installations. It can be custom-built to size and performance requirements for intake and exhaust systems. Recommended for free air intake velocities up to 700 ft per minute. / Vent Products Co., Inc., Chicago, Ill.

METAL STAIRS

114 METAL RUNG COVERS / Slip-resistant safety covers for retrofitting rungs on permanent steel ladders, called "Rugged Rungs," fit snugly, and maintain only a few minutes to permanently affix. / Sure-Walk, Inc., Leola, Pa.

RAILINGS AND HANDRAILS

115 SAFETY STAIR / The Algrip safety stair has an abrasive, non-slip surface on both tread and nosing. The solid tread may be painted or galvanized without reducing its rated friction quality. / Safe Walk, Inc., Leola, Pa. ICR, E*

116 STAINLESS STEEL RAIL / The Perma Rail system allows for installations of any length, complexity or configuration with pre-engineered, shop-welded assemblies. Engineering and design advice services are offered to architects / KDI Paragon Inc., Pleasantville, N.Y. GB, ICR*

STRUCTURAL METAL FRAMING

117 STRUCTURAL FRAME / Galvanized steel or aluminum "Structural U's" are designed for use with this maker's aluminum panel, galvanized steel panel, or shake siding in fascia, mansard and facade applications. Lightweight framing adds a minimum of weight to the structure. / Atlas Aluminum Corp., Rochester, N.Y. GB, ICR*
exterior or interior wall of facade material: brick, wood, stucco, dry wall. So you can use it for any kind of building up to four floors: apartments, schools, townhouses, nursing homes, shopping centers, etc.

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The strength and versatility of Wheeling Steel Framing Systems provide many design options. Here's one example: the unique shape of this 2-story office building complex.

Ease of handling of Wheeling Steel framed assemblies meant shorter construction time and a corresponding cut in labor costs on this low rise senior citizen nursing care facility.
ARCHITECTURAL WOODWORK

130 REDWOOD PANELING / Interior paneling and matching moldings are offered in clear heart, clear and natural grades of redwood. Panels are 4- and 6-in. wide, with rustic resawn texture on one side and smooth, sanded finish on the other. / Windsor Mill, Windsor, Calif.

LUMBER

131 BEVEL SIDING / A rough textured, redwood with a tight knot pattern, beveled siding features 1/4-in. and 1/2-in. butt thicknesses in plain and rabbeted versions respectively. The thick butt profile provides a strong horizontal shadow line. / Simpson Timber Co., Seattle, Wash.

132 REDWOOD SIDINGS / Air-sea- soned knotty redwood is available for many siding types: channel, tongue-and-groove, board-and-batten bevel. Rustic redwood is shown here on a Minneapolis residence by Gene De Witt. / California Redwood Assn., San Francisco, Calif.

PLASTIC LAMINATES

133 GLOSSY LAMINATE / For vertical surfaces in commercial interiors, Wil- sonart "Mirror Finish" high-gloss laminates are available in 16 muted solid colors. Sheets come in standard sizes and thicknesses, and are protected in transit with a removable film. / Ralph Wilson Plastics Co., Temple, Texas.

134 METALLIC LAMINATE / Available in three brushed and three polished anodized aluminum finishes, Mettle Mica is now offered in a 48-in. width, suitable for such applications as walls, ceiling panels, and the barfront pictured here. Mettle Mica has the working characteristics of standard high-pressure laminates. / The October Co., Inc., Easthampton, Mass. GB*.

SIMULATED WOOD


STOCK MILLWORK

136 MOLDINGS / The Capitol Collection features new moldings derived from ornate, 19th-century patterns. / Focal Point, Inc., Atlanta, Georgia GB*.

WOOD TREATMENT

137 PRESSURE-TREATED / Pressure-treated wood is said to be ideal for such residential outdoor projects as the California deck shown. Preservatives forced into lumber under high pressure render it resistant to termite and decay. Treated lumber is long-lasting, and requires no paint or stain, although it will accept most finishes. / Western Wood Preservers Inst., San Francisco, Calif.

138 DECK STAIN / For decorating and preserving wood in a number of outdoor applications, "Decking Stains" meet Federal standards for water repellency and wood preservation. Available in eight colors, stains resist cracking, peeling and blistering. / Samuel Cabot Inc., Boston, Mass. GB, LRC*.
TREATED LUMBER / A 4-page brochure describes the properties and benefits of Interior and Exterior Fire-X lumber and plywood. These materials have been treated with a fire retardant and ASTM tested for flame spread and weathering. • Hoover Universal, Thomson, Ga. GB, ICR. Circle 3059 on inquiry card

FIREPROOF SHINGLES / An information sheet features technical data and product information on Exterior Fire-X shingles and shakes. These treated roof covering materials carry a class C rating, and can be used where building codes and insurance restrictions demand a non-combustible material. Specifications are included. • Hoover Universal, Inc., Thomson, Ga. GB, ICR. Circle 3060 on inquiry card

GLULAM FRAMING / Technical data and design information about "glulam" structural timbers and framing systems are contained in a 40-page booklet. Assembled for use by architects, structural engineers and specifiers, the publication includes span and load tables and details on panelized roof systems. • American Institute of Timber Construction, Englewood, Colo. Circle 3061 on inquiry card

LUMBER / A 12-page guide to grades and specifications for softwood, hardwood, and APA performance-rated panels is available from the American Plywood Assn. The guide describes all panel grades illustrating typical panel trademarks. The booklet also defines key terms for proper specification of product. • American Plywood Assn., Tacoma, Wash. Circle 3062 on inquiry card

STRUCTURAL PANELS / A 12-page guide to performance-rated structural panels is available. The brochure outlines the benefits and performance criteria of the American Plywood Assn.’s new Performance-Rated products; current APA performance standards encompass sheathing and single-floor panel products. • American Plywood Assn., Tacoma, Wash. Circle 3063 on inquiry card

PANEL SYSTEMS / Information and recommendations on using APA panels for residential and commercial construction systems are incorporated into a 60-page guide. Also included: recommendations for finishing plywood and a presentation of specialized panel systems for fire- and wind-resistant construction. • American Plywood Assn., Tacoma, Wash. Circle 3064 on inquiry card

ROOF SYSTEMS / A revised brochure on non-residential roof systems includes information on structural panels and specifications. The 24-page publication also offers details on insulation, wind resistance and insurance rates. Updated charts specify span and load ratings for panelized roof systems. • American Plywood Assn., Tacoma, Wash. Circle 3065 on inquiry card

LUMBER / A definitive reference book on the production, grading and uses of Western board lumber is now available. "The Board Book" is a 52-page manual assembled to assist in the proper specification of board lumber. Information on size, seasoning and species of wood is included. • Western Wood Products Assn., Portland, Ore. Circle 3066 on inquiry card

REDWOOD SIDING / The properties and applications of knotty redwood siding are presented in a data sheet. Copy discusses the advantages of using "Rustic" redwood siding as an alternative to other types of lumber. • California Redwood Assn., San Francisco, Calif. Circle 3067 on inquiry card

REDWOOD PRODUCTS / An 8-page foldout showcases three redwood siding products: "Rustic" siding, architectural B-grade siding and Merchantable Heart lumber. The publication designed to help specifiers choose the correct grade of wood, also identifies the benefits of using redwood lumber. • California Redwood Assn., San Francisco, Calif. Circle 3068 on inquiry card

TRUSSES / The Wood Truss Handbook is a 190-page book compiled to provide a comprehensive guide to truss erection. The book, illustrated with photographs and diagrams, contains sections on statics and mechanics, truss theory, preliminary truss design, framing, fabricating and erection. Copies are available for $12.95 each. • Gang-Nail Systems, Miami, Fla. Circle 3069 on inquiry card

PANELING SYSTEM / The "Profilewood" paneling system, described in an eight-page booklet, features a galvanized clip assembly that eliminates nailing. The prefinished paneling is offered in hemlock, fir, cedar, redwood and spruce. Text describes the advantages to the clip system. • Oskermann & Schiewe USA, Spanaway, Wash. Circle 3070 on inquiry card

VENeer-LUMBER BEAM / A four-page brochure summarizes the features and advantages of the TIB Micro-Lam beam, a high-strength structural member that is designed to replace glulam beams, steel girders or similar structural components. Beam construction and available dimensions are detailed. • Trus Joist Corp., Boise, Idaho. Circle 3071 on inquiry card

VENeer LUMBER / "Length, strength and consistency" — These are the primary advantages of the country's laminated veneer lumber, according to an 8-page booklet. The text goes into detail on each of these three points, emphasizing that the engineered product offers the advantages of wood without the problems of conventional lumber. • Trus Joist Corp., Boise, Idaho. Circle 3072 on inquiry card

MOLDING/MILLWORK / A 28-page directory lists the products and services of over 80 per cent of the country's wood molding suppliers. Designed for use by architects, builders and remodelers, each entry includes the company name, address, phone number and key personnel. Each copy costs $2.00. • Wood Moulding and Millwork Producers, Portland, Ore. Circle 3073 on inquiry card
INSULATION

151 INSULATION / Styrofoam RM brand insulation boards protect a single-ply roof membrane from damage that can lead to membrane failure. The insulation is claimed to be virtually impervious to moisture, thus ensuring long-term thermal efficiency. / Dow Chemical USA, Midland, Mich.

152 INSULATION PANELS / FOAMULAR polystyrene insulation panels offer five insulation systems for residential and light commercial construction markets. These rigid, lightweight panels of extruded plastic foam can reduce fuel and heating and cooling equipment costs when used in certain insulation systems. / UC Industries, Chicago, Ill.

153 CEILING INSULATION / New 1/8-in-thick “Fire Guard” ceiling panels can carry 6 in. of fiberglass insulation without sagging, and improve the fire resistance rating from one hour up to 11/2-hours for typical roof/ceiling assemblies. “Fire Guard” panels are also used over the back of light fixtures (shown rear of photo). / Armstrong World Industries, Lancaster, Pa.

154 ELASTOMERIC COATINGS / Applied over sprayed urethane foam insulation, elastomeric coatings eliminate most flashings, reduce building movement and control ponding. The high build polymeric coatings can be sprayed to dry film thicknesses of 10-30 mls in single coat applications. All systems carry a UL 790 Class A rating. / Futura Coatings, Inc., Hazelwood, Mo. GB*

155 EXTERIOR INSULATION / Composed of EPS insulation boards, fasteners and accessories, the Surewall SPC system is said to offer exceptional impact resistance, thermal values, and decorative finish options. Surewall finish coats are available in gray, white and six colors. / Surewall Producer’s Council, Charlotte, N.C.

156 SPANDREL INSULATION / Fibergard curtain wall insulation, manufactured from semi-refractory fibers, has a foil or FSK facing. It is designed to provide thermal and acoustical insulation in spandrel panels and other metal-faced wall assemblies. Fibergard has a hazard classification of 10-5 per ASTM E 84. / Forty-Eight Insulations, Inc., Aurora, Ill. GB*

157 REINFORCING MESH / Engineered for heavy-traffic applications of the Dryvit Omnwall wall system, “Pazer Mesh” provides substantial impact resistance in such areas as entrances, balconies and walks at schools and shopping centers. / Dryvit System, Inc., West Warwick, R.I. GB*

158 THERMAL SLEEVES / Flexible pre-slit Pipsulation sleeves fit easily around hot water piping to reduce heat loss. Flame-retardant Pipsulation is marketed in 4- and 8-ft lengths, to fit pipes ranging from 1/2- to 2-in. / United States Gypsum Co., Chicago.

159 INSULATING PLASTER / The Thorowall system consists of a base-coat, which can be applied to questionable surfaces; a second coat; and a mineral-based finish or decorative coat (shown). Applied to the outside walls of new or existing buildings, light-weight Thorowall has an R-value of eight, is water-repellent and non-flammable. / Thoro System Products, Miami, Fla. GB*
160 Poured Concrete / Two-inch-thick curved core panels of expanded polystyrene, Thermocurve insulation can reduce heat loss through poured concrete walls by as much as 75 per cent. Totally encased in the concrete, Thermocurve panels will not reduce the strength of the wall. / Thoro System Products, Miami, Fla. GB +

MEMBRANE ROOFING

161 EDPM ROOFING / GenFlex all-climate elastomeric rubber membrane can be installed on all types of roofing configurations, including flat, high-pitched, domes, saw-tooth and hyperbolic. The entire system consists of membrane, seam adhesive, sealants, flashing and rooftop accessories. Fully-adhered version is shown. / GTR Building Products Co., Toledo, Ohio.

162 BATTEN SYSTEM / Benoit's "Batten Fast EPDM Roofing" system provides a completely vulcanized monolithic sheet over wood, metal or concrete roof decks. Field seams are self-vulcanizing; batten flashing permits quick application of the wide, talcless sheet. System is FM-approved. / Benoit Inc., St. Paul, Minn. GB +

163 SINGLE-PLY MEMBRANE / Tradename Hydro-Seal, large-sheet EDPM rubber membrane roofing is offered in both adhered and a UL Class A rated ballasted system. Seams are factory-vulcanized; roof will "give" without splitting or cracking. Hydro-Seal roofer are guaranteed watertight for up to 10 years. / American Hydrotech, Inc., Chicago. GB +

164 SINGLE-PLY ROOF / The TremPla membrane incorporates a polymeric formulation that includes Hypalon synthetic rubber for weatherability. A fully adhered system, TremPla has a fire-resistant mineral fiber backing, and is applied directly to the roof insulation with adhesive. / Tremco, Cleveland, Ohio. GB +

165 LARGE SHEET ROOF / An EDPM-type one-ply membrane, Celco-1 roofing is offered as a 45-mil membrane for loose-laid, ballasted applications in 10- and 20-ft widths and lengths of 50 and 100 ft. A 55-mil membrane is available in similar sizes for fully-adhered installations. There is a full line of Celco-1 flashing, adhesives and caulking. / The Celotex Corp., Tampa, Fla. GB +

166 INSULATED MEMBRANE / The K-MI insulated roof membrane assembly consists of a five-layer polyethylene core membrane covered with Styrofoam insulation boards, then finished with a stonemat and crushed stone ballast. Pedestal-type concrete pavers may also be used over the membrane/insulation roof. / Koppers Co., Inc., Pittsburgh, Pa. GB +

167 MEMBRANE ROOFING / Hi-Tuff is a high-strength, flexible membrane roofing material consisting of a polyester scrim sandwiched between two unbalanced thicknesses of a compound based on Hypalon. / J. P. Stevens & Co., Inc., Easthampton, Mass.

PREFORMED WALL & ROOF PANELS

168 INSULATED PANELS / Fourwall metal wall panels now use a new expanded polyurethane foam with a minimum 95 per cent closed cell structure. This new panel system meets UL and ASTM-E84 standards, with a flame spread rating of 20. It has FM Class 1 approval for walls not exceeding 30 ft in height. / Elwin C. Smith Div., Cyclops Corp., Pittsburgh, Pa.

169 METAL PANEL / A subgirt clip installation system facilitates positioning and erection of metal wall panels. A special tool allows panel removal and replacement without disturbing the rest of the wall. System available in nine standard colors. / Chicago Metallic Corp., Chicago. GB +

170 PREFORMED PANEL / An architectural metal panel designed to save time and reduce construction costs, the Dura-Seam fascia and roofing panel is made of 24-gauge galvanized steel pre-finished in Kynar 500 fluoropolymer. / Inmetco, Tucker, Ga. GB +

171 BUILDING PANEL / A lightweight exterior wall panel, the "Multi-Purpose" can be used for mansard roofing, facades, fascias, etc. All profiles install with the Wind-Lok no-clip system, extremely resistant to wind pull-off. / Atlas Aluminum Corp., Rochester, N.Y. GB, ICR +

* 1982 Sweet's Catalog File (GB): General Building (GB); Light Residential Construction (LRC); Engineering (E); Interiors (I): Industrial Construction & Renovation (ICR) / First time inSweet's.
ROOF ACCESSORIES

172 FASCIA SYSTEM / The “SLF Snap-Lok” consists of an extruded aluminum fascia with galvanized steel cant dam. A special clip with positive clamping action facilitates installation. Splice plate is concealed. Fascia is available in four face heights; in mill and all architectural finishes. / MM Systems Corp., Tucker, Ga. GB*

ROOFING SPECIALTIES

173 ROOF COATING / A white, reflective compound for application over Grace smooth surface roofing membrane, non-flammable coating can lower roof temperature by up to 50 deg. It also reduces the temperature swing of a roof system. / W. R. Grace & Co., Cambridge, Mass. GB, ICR*

174 CONWED SILL SEALER / Conwed sill sealer, a cellulose-fiber blanket product, helps save energy by insulating inside air from outside air between the sill plate and the foundation, or at other joints. It is available in 4-in., 6-in. and 8-in. wide rolls. / Conwed Corp., St. Paul, Minn.

175 URETHANE SEALANT / DuMonic one-part general construction sealant is designed to resist moisture and withstand movement, shear and deflection, especially in expansion and control joints. It is now available in 1-gal cartridges, as well as two-gal. bulk units. / Tremco, Cleveland, Ohio.

176 WEATHERSEAL / One of a new line of pressure-sensitive door seals, the “Double Guard” silicone rubber seal wraps around the edges of the frame, creating a positive barrier that restricts the infiltration of weather, light, sound, dust and insects. / The Stanley Works, New Britain, Conn.

177 PENETRATION SEAL / When properly applied to wall and floor penetrations, these new silicone rubber sealants help contain fire, smoke, water and radiation under emergency conditions. All have a UL three-hour (ASTM E119) rating. / General Electric Co., Silicone Products Div., Waterford, N.Y. ICR*

SHINGLES & ROOFING TILES

178 GLASS FIBER SHINGLE / Chaparral—a new glass fiber roofing shingle—adds a three-dimensional appearance to a roof, while resisting curling, buckling and blistering. It comes with a 30-year limited warranty and a class A fire rating. / Owens-Corning Fiberglas Corp., Toledo, Ohio.

179 LAMINATED SHINGLE / The Woodlands laminated fiberglass shingle is now available in a “Village Red” color, resembling tile. Woodlands roofing has a Class A fire resistance rating, and carries a 25-year limited warranty. / Johns-Manville, Denver, Colo. GB, ILC*

180 METAL TILE / A lightweight, one-piece roofing tile with an integral nailing flange. “Spanish Style” is made of steel or aluminum, offered in standard Tile Red or Burnt Red colors. Tiles are designed to interlock, forming a weathertight roof. Price: $140 per square. / Architectural Engineering Products, San Diego, Calif. GB*

181 RATED SHINGLE / UL Class B and C rated. Red Cedar shakes and shingles are pressure-treated with fire-retardant from Koppers. Wood will weather naturally without losing its fire resistance. / Koppers Co., Inc., Pittsburgh, Pa. GB*

182 WOOD FIBER ROOFING / Said to offer lower applied cost and ease of installation, “Woodful Traditional” is a textured wood fiber shingle made in 12- by 40-in. sections. It will weather to a silver gray color, and may be used over new or existing roofs. Currently available only in 13 Western states. / Masonite Corp., Ukiah, Calif.

WATERPROOFING & DAMPPROOFING

183 RUBBER ROOFING / Sheets of waterproof rubber roofing, called Ver-sigard, feature specially compounded EDPM single-ply rubber sheets that are claimed to make time-consuming application of asphalt and felt roofing materials obsolete. It is marketed with a 10-year, no-leak guarantee when installed by a Goodyear approved and trained roofing contractor. / Goodyear, Akron, Ohio.
Pipe dream.

The J-M Flex-I-Drain™ flexible drain system performs like a dream. And is a dream to install.

A look at its patented construction reveals the reasons. First, it’s tough yet lightweight, made of high rated impact strength, heat-resistant Noryl® SE-1 and flexible neoprene. In addition to black Noryl, J-M Flex-I-Drain is also available in white acrylic for use with single ply systems.

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J-M Flex-I-Drain is compatible with J-M built-up roofing components. And it’s eligible for coverage under the J-M Guaranteed Roof Program. It also may be used with other roofing systems.

Select Flex-I-Drain for your building and everyone comes out ahead. The architect because it really performs. The contractor because it installs quickly. The building owner because he gets better roof drainage.

For more information, consult Sweet’s. Or contact George Constantin, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217, (303) 978-3281.

For single-source built-up roofing systems.

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UCI 7: EXTERIOR PROTECTION

INSULATION / The sound- absorptive properties of fiberglass insulation are highlighted in a brochure. The 16-page publication, concentrating on commercial construction, has 13 color illustrations, which clarify details of wood stud, steel stud, and floor/ceiling construction. • Johns-Manville, Denver, Colo. circle 3081 on inquiry card

INSULATION / A building insulation materials submittal form is offered to aid in the selection and specification of the proper thermal and acoustical insulation. The form lists and describes the materials available, including flame-resistant, foil, kraft- and unfaced insulation. • Johns-Manville, Denver, Colo. circle 3089 on inquiry card

ROOFING SHINGLES / A four-color data sheet introduces the Fire-King III roofing shingles, which are made of heavyweight fiberglass. The sheet details architectural specifications and Federal specification compliance. The shingles, which feature a square-cut, three-tab design, carry a UL Class A fire rating. • Johns-Manville, Denver, Colo. GB, LRC* circle 3090 on inquiry card

FIBERGLASS SHINGLES / Woodlands laminated fiberglass shingles are featured in a four-color data sheet. These top-of-the-line shingles, which carry a Class A fire rating, are offered in five colors. Product data, such as size, specifications, weight and bundles per square, are also presented. • Johns-Manville, Denver, Colo. GB, LRC* circle 3091 on inquiry card

POLYBRAINE ROOF COATING SYSTEM / A four-color flyer describes the introduction of a liquid, single-component roofing material called Polybrane 186. The polyurethane material is, according to the manufacturer, easy to apply and will adhere to most roofing and decking substrates. The coating forms a durable and waterproof surface. • Polymer Plastics, Hauppauge, N.Y. circle 3093 on inquiry card

SILICONE SEALANTS / Three silicone rubber penetration sealants are introduced in a brochure. These sealants help contain fire, smoke, water and radiation under emergency conditions. They are also recommended for applications in which high-pressure conditions may occur. Sealants carry UL 3-hr. and Class A fire hazard ratings. • General Electric, Waterford, N.Y. circle 3094 on inquiry card

BUILDING PANELS / A four-color, 8-page brochure introduces the Therm-B-Strastructural panels, designed as an alternative to wood, brick, concrete or other conventional building materials. The 4-by-8-ft. panels are lightweight, fire-resistant, sound-absorptive, and provide a wall with additional load-bearing capabilities. • Covington Technologies, Irvine, Calif. circle 3095 on inquiry card

FOAM COATING SYSTEMS / A 6-page fold-out brochure provides information on a number of the manufacturer's foam coating systems, which provide both an insulating and protective roof membrane. Also included is a listing of some 44 installations, and a product/specification guide. • Gaco Western, Inc., Seattle, Wash. circle 3096 on inquiry card

PVC ROOFING MEMBRANE / A 4-page color brochure contains general information and specifications on ballasted and unbalkasted roofing systems. Detailed in the text are the physical properties, recommended applications and installation guidelines for each type of system. • United States Mineral Products, Stanhope, N.J. circle 3011 on inquiry card

SEALANT/WATERPROOFING / A 4-page brochure presents the manufacturer's sealant and waterproofing systems. A sealant selector and a waterproofing system chart provide a quick reference to performance characteristics, installation ratings, joint application sizes, surface types and color availability from the product line. • Tremco, Cleveland, Ohio. circle 3012 on inquiry card

SINGLE-PLY ROOFING / The benefits of using the Garna-Flex roofing system are discussed in a 4-color, 8-page brochure. The system consists of three products: 1) Garna-Prime, applied to assure adhesion to substrate, 2) Garna-Flex, a spray-on coating over polyurethane foam, and 3) Garna-Guard, applied over the latter to resist sunlight and water damage. • Garna Systems, Chapman, Kan. circle 3092 on inquiry card

SINGLE-PLY ROOFING / The Sarnafil roofing systems are outlined in an 8-page brochure. Topics of discussion include the manufacturing process, possible applications, properties and advantages of the systems. Types of installation procedures are briefly described, and photographs show a variety of existing installations. • Sarnafil (U.S.) Inc., Canton, Mass. circle 3097 on inquiry card

ROOFING SYSTEM / An EPM roofing system is introduced in a 4-color, 8-page brochure. The new system is, according to the manufacturer, the only wide-sheet, no-talc system available in this country. The brochure provides a detailed product description, and summarizes the advantages of using this single-ply membrane system. • Benoit Inc., St. Paul, Minn. circle 3098 on inquiry card

SINGLE-PLY ROOFING / A press kit describing the "Cool-Top 40" single-ply membrane roofing is available. A 4-page brochure and specification sheet outline the properties and benefits of this system. Some of the advantages discussed include ease of installation, durability and reflective properties. • Cooley Roofing Systems, Pawtucket, R.I. GB, ICR, ICR* circle 3099 on inquiry card

PVC ROOFING MEMBRANE / A 4-page color brochure contains general information and specifications on ballasted and unbalkasted roofing systems. Detailed in the text are the physical properties, recommended applications and installation guidelines for each type of system. • United States Mineral Products, Stanhope, N.J. circle 3011 on inquiry card

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For more information, circle item numbers on Reader Service Inquiry Card, pages 5, 21, 45.
ENTRANCES & STOREFRONTS

196 MANUAL ENTRANCES / Designed to meet the needs of the handi-
capped without interfering with normal traffic flow, "Series 800 Barrier-
Free" entrances eliminate thresholds, both sides of door bottom rails and
sidelight bases are flush. / Kawneer Co., Inc., Niles, Mich. GB*

GLAZING

197 POLYCARBONATE GLAZING / Recommended for use in inaccessible
locations and non-vertical glazing, such as the pool cover shown here. Lexan
"Solar Grade" sheet has a UV protective surface to resist yellowing, surface
hazing and water spot dulling. / General Electric Co., Pittsfield, Mass. GB*

198 ACRYLIC GLAZING / Kringlglas is a translucent acrylic product with an
invisible fiberglass reinforcement. It is offered in 50 solid colors and 15 multi-
hued combinations. Impact-resistant Kringlglas draws and refracts light in a
three-dimensional manner through its textured surface. / Wiedemann Indus-
tries, Inc., Muscatine, Iowa.

HARDWARE & SPECIALTIES

199 SECURITY SYSTEMS / A new hardened-steel security shield prevents
rapping and drilling to break the locking mechanism. The heavy-duty shield
wraps around the entire paralock except the sides. / Best Lock Corp.,
Indianapolis, Ind.

200 THUMBTURN LOCK / The "Captive Thumb-turn/Key Deadlock" pro-
vides both security and fire safety for occupants: there is a single cylinder
with an inside thumbturn for quick egress, and a double cylinder deadlock

201 QUICK EXIT LOCK / The "H" series lock satisfies both life safety and
security requirements, with single- and double-locking functions. From the
inside, turning the door knob automatically retracts the one-in-three dead-
bolt and the latchbolt. From the outside, the saw-resistant deadbolt works
with the "strike/frame reinforcer" to prevent picking and kick-in attacks. / Schlage Lock Co., San Francisco, GB,
LRC*

202 LEVER HANDLE / A new line of molded nylon handles from Italy
includes the "Monte Carlo" lever han-
dle, suitable for residential or light com-
mercial use. Offered in several colors,
this handle retails for $14 a pair. / The
Ironmonger, Inc., Chicago. GB*

203 DOOR/CABINET KNOBS / This
drome" variation is now available in the
Astonic hardware line from England.
New finish options include polished
brass, satin brass and dark bronze,
in addition to the standard anodized
aluminum or colorful Spectra coatings.
/ The Ironmonger, Inc., Chicago. GB*

204 SCAFFOLD ANCHOR / For use
on building facades of all types of
metal and glass, curtain wall, masonry,
etc. —metal restraint anchors are per-
manently or temporarily installed in a
pattern on the perimeter of the build-
ing. Tracks in the window cleaning
scaffolds engage the anchors while
traveling. / Weatherguard Service,
Inc., Marietta, Ga. GB*
205 HOSPITAL DOORPULL / "Limbbar" door hardware has been designed to allow positive forearm grip without trapping the arm; they can also be used comfortably with normal hand grip. Series also includes horizontal and vertical pulls, a special lever handle, and a modified baseboard doornot. / The Ironmonger Inc., Chicago. GB*

206 ELECTROMAGNETIC / "Model 3900" door lock exerts 1500 lb of door sealing force while drawing only 2 amps at 12 or 24 volts AC or DC. The self-contained unit is concealed by the closed door; its mounting design permits installation on swinging or sliding doors. / Security Engineering, Inc., Forestville, Conn.

207 209 210

208 212 213

209 FIRE EXIT / A contemporary touch pad design, the "99-F" device is UL-listed for use on A, B, C, D or E label double fire doors up to 8-ft high by 8-ft wide with removable mullion, and single fire doors up to 8-ft high by 4-ft wide. It comes in four finishes; 3- and 4-ft lengths may be cut to fit specific doors. / Von Duprin, Inc., Indianapolis, Ind. GB*

210 RIM EXIT / A double-cylinder rim exit has been added to the "99 Series" touch pad devices. The "99-2" provides the user with the ability to mechanically lock and unlock the outside trim from the inside of the building. / Von Duprin, Inc., Indianapolis, Ind. GB*

211 ADJUSTABLE EXIT / "33 Series" exit devices are now offered with a redesigned mechanism end cap, permitting field cutoff to proper size. They are available in 3- and 4-ft lengths, with minimum one-half door width touch pads as allowed by NFPA 101. / Von Duprin, Inc., Indianapolis, Ind. GB*

212 LOCKING SYSTEM / Built to comply with the latest model building codes, "The Controller" lock makes it impossible to leave one door leaf unlocked with the other leaf unlocked, thereby allowing unimpeded exit during emergencies. Security features of "The Controller" prevent forced entry. / Kawneer Co., Inc., Niles, Mich. GB*

213 ELECTRIC LOCK / Narrow-design mortise lock fits into a 1/2-in. square tube, for new and retrofit applications. Low-voltage electric strike operates a 1/4-in. stainless steel deadbolt. Features include five-point installation in either header, jamb or stile, and prewired, tamper-resistant concealed sensors. / Security Engineering, Inc., Forestville, Conn.

214 DOOR PULLS / The HD730 model shown is a new addition to the Form 1 Doorpull Series, a collection of clean, simple designs in high-performance materials. Made of 1/2-in.-diameter stainless steel tubing, it can be easily installed because of its back-to-back mounting system and special turning washer on interior doorpull. / Forms & Surfaces, Santa Barbara, Calif.

215 PASSAGE LOCKSET / Solid brass "Vinca" lockset comes in brushed brass, brushed aluminum and antique brass finishes. The lever handle retracts the latch fully with only a 25-deg depression of the handle. Privacy lock has an emergency release feature. / Valli & Colombo (U.S.A.) Inc., Duarte, Calif. GB*

216 TUBULAR LOCKSET / The "61" interchangeable core lock is available in a variety of deadbolt functions. Its stainless steel bolt has a one-in. throw; internal, hardened steel roller resists attack. Finishes include satin bronze and brass, stainless chrome and bright brass. / Best Lock Corp., Indianapolis, Inc.
217 CABINET PULLS / A new design and three new colors have been added to the "Nylon Cabinet Pull" collection. The non-static nylon used resists staining and corrosion. Added colors are bright green, rich red, and a medium gray; eight different designs are available. / Forms & Surfaces, Santa Barbara, Calif. GB, 1st

218 RATED CLOSER / The "420" Fire Shield, mortised into top rail of door, allows use of overhead concealed closers with 20 minute fire-rated doors. Device can be used with any of four CN closers, on hollow metal or qualified wood doors. / LCN Closers, Princeton, Ill. GB, 1st

219 METAL DOORPULLS / Seven cast metal hardware designs have been added to Customwood's door pull line. Available for single or back-to-back mounting, all are suitable for use on wood, metal or glass doors. / Customwood Mfg. Co., Albuquerque, N.M. GB, 1st

220 EXIT DEVICE / Rim-mounted exit has a rotating starwheel bolt and a noseguard that interlocks with the strike plate, offering a higher level of security. The aluminium pushbar travels only one inch, in the natural direction of pedestrian movement. Both models—for wood/hollow metal and aluminum/glass doors—are UL listed. / Adams Rite Mfg. Co., City of Industry, Calif. GB

METAL DOORS & FRAMES

221 GARAGE DOOR / The "Weather/Breaker" door has a 1½-in. solid foam core between two seamless aluminum panels, creating a completely sealed unit. Garage door is also offered in commercial and industrial versions. / Howmet Aluminum Corp., Building Products Div., Lancaster, Pa. LRC

222 OFFICE DOORS / For entrance and interior installations, the "Beacon Hill" door series has beveled glass panes set in the leading style, with a border of amber or chip-patterned panels. Doors are available with full or half-glass panels. / General Products Co., Fredericksburg, Va. GB

223 PATIO DOOR / Built to improve thermal efficiency and security, the "French Patio" door is sized to fit the rough opening for old sliding patio units. Polyurethane-core door has magnetic weatherstripping, self-sealing sill and super glass glazing. / Therma-Tru Div. of LST Corp., Sylvania, Ohio

224 BEVELED GLASS / "Crystalline Series" insulated exterior entry door systems use leaded, beveled glass in more than 25 styles of door lights. Entrances are fully weatherstripped, with a self-sealing sill and door bottom. / Therma-Tru Div. of LST Corp., Sylvania, Ohio

225 TEXTURED DOORS / Detailed with geometric patterns, textures and graphics, as well as flat metal facings, "System B" doors are of embossed stainless steel, bronze or aluminum, and tempered glass. / Forms & Surfaces, Santa Barbara, Calif. GB

226 MIRROR BIFOLD DOOR / Suggested for hall closets, bedrooms or bath, mirrored bifold doors provide full access to closet contents. Mirror panels of double closet doors can be placed to allow "front and back" viewing. Bifold doors are 6'-ft., 8-in. high. / General Products Co., Fredericksburg, Va

METAL WINDOWS

227 GARDEN WINDOW / The "Grow & Show" aluminum greenhouse window unit has crank opened, screened ventilation openings. Other features include insulated glass and non-rusting base pan. "Grow & Show" window comes in 11 sizes and bronze and white finishes. / Peerless Products, Inc., Kansas City, Mo. GR

228 REPLACEMENT WINDOW / "Thermal Weatherstopper" window line features a poured polyurethane structural thermal barrier with Mylar fin-seal weather stripping. Windows tilt for easy cleaning. Single-, double- and triple-glazing may be specified. / Peerless Products, Inc., Kansas City, Mo. GB
SPECIAL DOORS

229 STORAGE DOORS / The Jamis- 
glide Powertron cold storage doors 
feature a new power operator for high 
reliability performance, low mainte- 
nance, and easier installation and start-
up. / Jamison Door Company, Hagers-
town, Maryland. GB*

230 ACOUSTICAL DOOR / Overly's 
1½-in-thick door and 1-in. raised panel 
assembly achieves a STC of 52 under 
ASTM E90-75, without a raised seal or 
automatic door bottom. The door has 
cam lift hinges and an adjustable bot-
tom gasket, which seal the door firmly, 
eliminating sound leakage. / Overly 
Mfg. Co., Greensburg, Pa. GB*

231 ARMORED DOOR / Designed for 
protection against paramilitary at-
tack of embassies, sensitive storage 
areas, etc., door and frame system 
claims “denial times” of up to 10 min-
utes from physical attack and a range 
of military small arms fire. Steel 
door is 2½-in. thick. / Overly Mfg. 
Co., Greensburg, Pa. GB*

233 GARAGE DOOR / The “Thermo-
O-Air” garage door is constructed of 
blow-molded polyethylene panels, 
each of which contains a one-in-thick 
air space that acts as a thermal blanket. 
The panels overlap to form an unbro-
ken weather seal. / General American 
Door Co., Montgomery, Ill.

234 FOLDING GRILLES / Side-acting 
 closures will accommodate irregular 
openings with 90-, 120-, 135- or 150-
deg curves with a tight 10-in. radius. 
Aluminum grilles need no floor track, 
only floor sockets for drop-bolts at 
vertical members. / Cornell Iron 
Works, Inc., Mountaintop, Pa. GB, 
ICR*

237 GARAGE DOOR / The “Reign-
sance 2000” sectional door uses resin-
impregnated Cladwood board panels 
inverted in a galvanized metal rail to 
construct a garage door with the 
appearance and thermal advantages of 
wood. / Ankmar Door Inc., Denver, 
Colo.

SPECIAL WINDOWS

235 GARAGE DOOR / The “Renais-
sance 2000” sectional door uses resin-
impregnated Cladwood board panels 
inverted in a galvanized metal rail to 
construct a garage door with the 
appearance and thermal advantages of 
wood. / Ankmar Door Inc., Denver, 
Colo.

236 VANDAL RESISTANT / An adap-
tation of the “Model 475” window, 
the “Graham Guardian” has an inner 
light of insulating glass, and an impact-
resistant Lexan outer light. Using a spe-
cial tool, sash can be tilted or swung 
open for cleaning. / Graham Architec-
tural Products Corp., York, Pa. GB, 
ICR, LRC, E*

237 INSULATING WINDOWS / The 
Sunflake Window has an insulating val-
ue of R-14. An insulating panel covers 
the window opening. When not in use, 
it slides into a pocket section con-
cealed in the wall cavity. / Sunflake, 
Ignacio, Colo.

238 SKYLIGHTS / In the new low-
profile barrel-vault skylight, high-
strength aluminum arches support 
curved acrylic glazing panels that 
can span up to 25 ft with unlimited lengths. 
Options include operable ventilating 
sections that can be automatically acti-
uated by heat build up or fire. / 
O’Reeife’s Inc., San Francisco, Calif.

239 VENTING SKYLIGHT / The vent-
ing skylight releases heat in the highest 
part of the room and draws fresh air 
throughout the house. Naturalite’s win-
dow has an insulated self-flashing curb, 
and is offered in both single- and dou-
bile-dome versions. / Naturalite, Inc., 
Garland, Texas. GB*

240 WOOD-FRAME SKYLIGHT / Alu-
mium clad over a wood frame, Pella 
skylights feature built-in flashing and 
½-in. tempered insulating glazing 
with a ½-in. air space between panes. 
Optional Slumshade blind controls light; 
aluminum condensation gutter is pro-
vided at sill. / Pella/Rolscreen Co., 
Pella, Iowa. LRC*
WOOD & PLASTIC DOORS

242 FOLDING DOORS / The Winwood line of wood folding doors feature a high-technology woodgrain finish laminated to solid West Coast hemlock for quality at a budget price. / Wood Specialty Products, a Division of Thackettown Corporation, Mountlake Terrace, Wash.

243 SPECIAL SHAPES / Prefinished "Pivotframe" window components allow architects to create trapezoidal units and other special window shapes. Stationary windows, finished in white or "Terracotta," will accept glass thicknesses up to one in., including triple-pane insulating glass. / Andersen Corp., Bayport, Minn.

244 FRENCH-STYLE DOOR / A double-glazed unit with an energy-efficient wood frame, this "Contemporary French" sliding door features removable wood window panes and narrow-slat blinds and bronze glass are available options. / Pella/Rolscreen Co., Pella, Iowa. LRC.*

245 STAINED GLASS / Colored glass hand-leaded in a variety of intricate patterns form the central design element in six new "Stained Glass Series" doors. Doors are made of red oak or Philippine mahogany in a number of finish options. / Customwood Mfg. Inc., Albuquerque, N.M. GB, 1º

246 RIGID VINYL DOORS / "Tilt and Turn" patio doors are constructed of fusion-welded steel-reinforced rigid vinyl available in eight colors. Doors swing in for entrance and exit, and tilt-in from the top for secure, draft-free ventilation. / Darmont Noel of America, Inc., Montvale, N.J. GB, ICR, LRC.*

247 SCREEN DOORS / One of a new line of 39 screen doors, the "DS 99" has a decorative mahogany grille in front of heavy-duty bronze wire screening. All doors are available in Ponderosa pine, in many architectural styles; custom sizes and finishes may be ordered. / Customwood Mfg. Co., Albuquerque, N.M. GB, 1º

248 BRONZE PANEL DOOR / "Series 700 kits permit economical field fabrication of Bonded Bronze doors: a specially detailed Bonded Bronze panel can be easily mounted on one or both sides of any flush door with panel adhesive and special colored nails placed along the edge. Several textures in bronze, copper, aluminum and nickel silver metals are available. / Forms & Surfaces, Santa Barbara, Calif. GB, 1º

249 WOOD AND GLASS / A solid-core door with red oak veneered surface, this "Geometric Door" has a large center light of clear or tinted safety glass. A rounded hardwood stop frames the glazing. / Customwood Mfg. Co., Albuquerque, N.M. GB, 1º

250 SUNROOM / Prefabricated structure based on passive solar principles features wood construction, double-glazed insulation, aluminum-clad exterior and such energy-saving options as Solarcool bronze glass and built-in Simshade blinds. / Pella/Rolscreen Co., Pella, Iowa. LRC.*

251 SOLAR FILM / SolaireFilm wood windows have a transparent film placed between two panes of glass, said to give the same U-factor as triple glass, but to be more receptive to solar energy. / Weather Shield Mfg. Inc., Medford, Wisc. GB, LRC.*

252 TRIPLE GLAZING / Pella's "Triple Glass Insulation System" has a fixed exterior pane of glass on the outside and a removable panel of double-insulating glass on the inside. Wood-framed units are thermally efficient and prevent condensation. / Pella/Rolscreen Co., Pella, Iowa. LRC.*
ACOUSTICAL DOORS / A four-page bulletin prepared for architects and builders presents technical and design data on barrier-free, "Noise-Lock" acoustical doors. Emphasized are the lab-rated performances of each model as they were rated for acoustical capabilities, fire resistance and fire/blast resistance. ■ Industrial Acoustics Co., Bronx, N.Y.

circle 3117 on inquiry card

MIRRORED DOORS / A full line of mirrored closet doors is cataloged in a 16-page booklet. Prepared for architects, builders and interior designers, the brochure contains many ideas on how to use bi-fold, bi-pass and three-way mirrored doors as "space-savers." Featured are architectural specifications, product data and installation information. ■ Monarch Mirror, Chatsworth, Calif.

circle 3108 on inquiry card

DOOR OPERATOR / Safety and dependability are stressed in a brochure describing an interior automatic door operator. The all-electric unit meets or exceeds industry standard for "low energy" power-operated doors, using less power than a 100-Watt light bulb. ■ Larson Industries, Inc., Greendale, Wis. GB**

circle 3119 on inquiry card

FLOOD PROTECTION / A 12-page catalog details several models of flood barriers and watertight doors for use in building in flood-prone areas. Each model features the manufacturer's PNEUMA-SEAL inflatable gasket. The catalog illustrates how these barriers are installed in both existing buildings and new construction. ■ Presray Corp., Pawling, N.Y. GB, ICR*

circle 3120 on inquiry card

FLOOD BARRIERS / Pl flood barriers are the subject of a four-page brochure. Five models are available, three lift-out panels and two permanently-attached, hinged panels. The brochure also has a customer fill-in-section to determine which model is appropriate. ■ Presray Corp., Pawling, N.Y. GB, ICR*

circle 3121 on inquiry card

ENTRY DOORS / A line of solid hardwood, handcrafted front entry doors are showcased in a 16-page catalog. The "Lasting Impressions" catalog shows in color installations of the wide choice of designs, woods and finishes available. Also featured: matching sidelights, bi-fold and custom designs. ■ International Wood Products, San Diego, Calif.

circle 3122 on inquiry card

INSULATING GLASS / The advantages of using insulating glass are stressed in an 8-page brochure. A product data chart compares the typical insulating values of double and single glazing in terms of U-values, light transmission and heat gain. Reflective capabilities and sound reduction are also discussed. ■ Independent Insulating Glass Co., Chicago, Ill.

circle 3123 on inquiry card

STAINED GLASS / The many possible applications of stained glass for commercial, institutional and residential structures are suggested in a six-page brochure. Four-color photographs display some of the company's recent and past commissions for stained glass. ■ Rambusch, N.Y., N.Y.

circle 3124 on inquiry card

EXIT DEVICES / A 4-page brochure introduces five series of exit devices. Some of the units features are for glass doors only; the others for wood or hollow metal. Load capabilities and other safety features are described. Instructions on how to specify each product is summarized. Accessories are listed. ■ Adams Rite Mfg., City of Industry, Calif.

circle 3125 on inquiry card

GLAZING / The properties and wide range of applications of Lexan sheet is subject of a 12-page publication. Information includes where to use these types of glazing, and how they compare to other materials; impact resistance and thermal advantages are emphasized. ■ General Electric, Pittfield, Mass.

circle 3126 on inquiry card

SPECIALIZED WINDOWS / A family of specialized-function windows is cataloged in an 8-page booklet. Products featured include: sliding service windows, ticket windows, peak windows, mail slots, and package windows. Each is shown in a drawing, its features are listed, and dimensions given in tabular form. ■ Nissen & Co., South El Monte, Calif.

circle 3127 on inquiry card

INSULATED DOORS / A four-page brochure introduces a line of thermal entrances, featuring the Insulclad 260 insulated aluminum glass doors. The results of product tests are tabulated and summarized in two graphs. All entrances are available with closers, locks, hinges and other hardware. ■ Kawasaki Architectural Products, Niles, Mich.

circle 3128 on inquiry card

GLAZING SYSTEM / A 4-page brochure describes a secondary glazing system that reduces heat infiltration and conduction through existing glass areas substantially. The system consists of an aluminum-framed secondary window and a venetian blind. Schematics and cross-sections are included. ■ Nanik, Wauaus, Wis.

circle 3129 on inquiry card

WOOD ENTRANCE DOOR / An addition to the manufacturer's "International Door" collection is announced in this color brochure. The new style is called "The Tudor," its distinctive feature: a hinged "spoke" port with a Tudor-style security grille. This opening allows the homeowner to identify callers or increase ventilation. ■ Simpson Timber Co., Seattle, Wash.

circle 3130 on inquiry card

GLAZING SYSTEM / A 4-page illustrated brochure of "Glazing Systems" features three glazing projects and a sealant/tape catalog. The brochure also has a quick reference to performance characteristics, specification ratings, joint application sizes, surface types, life expectancies and color availability for the full line of glazing products. ■ Tremco, Cleveland, Ohio.

circle 3131 on inquiry card

*In 1982 Sweet's Catalog File (s): General Building (GB); Light Residential Construction (LRC); Engineering (E); Interior (I); Industrial Construction & Removation (ICR) [First time in Sweet's.

62 ARCHITECTURAL RECORD Mid-October 1981
Perma-Shield windows and gliding patio doors save on maintenance, too. Their rigid vinyl exteriors virtually eliminate it.
And all the while they hold their appearance.
Assuring window beauty for years and years.

**The contractor** needs products that are easy to install.
Andersen responds. With windows that arrive assembled, complete with hardware. With durable, vinyl sheathed windows that resist damage during handling and installation.
With windows that install easily in virtually all types of wall construction.

**The manager** wants products that are easy to maintain.
Andersen replies. With windows and gliding patio doors that are practically maintenance-free.
Their tough, enduring vinyl exteriors see to it. They won't need painting every few years.

**The tenant** seeks beauty and comfort.
Andersen understands. And builds windows with interiors of rich, warm, beautiful wood.*
Builds them tight and true. To help seal out winter. Help seal in comfort.
Some commercial building windows can't keep you ahead of people's needs.
With Andersen in the storefront, you're in the forefront.

---

**Hardware is custom-designed for each window type.**

**Precise milling—to the closest of tolerances—assures smooth, easy operation.**

**Durable vinyl exterior resists damage during installation. Cleans easily with damp cloth.**

**Continuous installation fin eliminates need for separate flashing.**

**Wood interior* for natural beauty, lasting character. Preservative treated to resist warping.**

**Tight-fitting design. Andersen® windows are two times tighter than industry air-infiltration standards.**

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* Discontinued.
** Reduced infiltration to 0.4 air changes per hour and ASHRAE 103 standard for infiltration.**
The Andersen® Perma-Shield® casement window.

Closed, this window helps seal out the elements and helps seal in valuable energy.

Open, it scoops in ventilation to create better indoor living.

Outside, its durable rigid vinyl repels weather and time.

Inside, its rich warm wood invites with charm and character.

In white, these windows accent—with a clean bold profile.

In Terratone, they blend—in a deep dramatic way.

The Perma-Shield® casement window
Could this be the perfect commercial window?

Usages
Perma-Shield casements can be arranged singly, stacked, mulled together in pairs, rows and angle bay/bow formations or combined with fixed windows.

Applications
a. Camden County Library
   Vorhees, New Jersey
   Architect: Gottelmann Associates
   Haddonfield, New Jersey
   Installation: Perma-Shield casement—operating and fixed units—set in expanded metal frames
b. St. Croix Valley Clinic
   Stillwater, Minnesota
   Architect: Stanley E. Brown, A.I.A.
   Denver, Colorado
   Installation: Terratone color Perma-Shield casement windows (in angle bay formations) in brick wall construction with copper facing over exterior plywood
c. Washington County Office Building
   Stillwater, Minnesota
   Installation: Perma-Shield casement windows and spandrel panels in two-story curtain wall design.

Printing limitations prohibit exact duplication of Terratone. Use actual sample for building specifications.
The Andersen®
Perma-Shield®
awning window.

Cast your design eye over the projects shown here.

See the common denominator?
It's the popular, versatile Perma-Shield® awning window.

How popular? Very. On these pages alone it serves a center for the handicapped, a college dormitory and a bank.

How versatile? Extremely. Used in stacks, ribbons or individually, it's the solution to many light, view, ventilation and privacy requirements.

Combined with fixed windows it adds controlled ventilation to picture window beauty.

It's also available in beautiful white or blendable Terratone.

And as with all Perma-Shield windows, energy efficiency, low maintenance and lasting beauty are all standard.

The Perma-Shield awning window. One window that answers many needs.

Applications
a. Courage Center
Golden Valley, Minnesota
Architect: Rafferty, Rafferty, Mikutowski & Associates
St. Paul, Minnesota
Installation: Perma-Shield awning and fixed windows, Perma-Shield casements and Perma-Shield gliding doors set in masonry construction

b. Shenandoah College Residence Hall
Winchester, Virginia
Architect: Keith Williams & Associates
Winchester, Virginia
Installation: Perma-Shield awning windows in prestressed concrete and masonry frame with stucco facing

c. Federal Land Bank
Northfield, Minnesota
Architect: Architects Plus
Faribault, Minnesota
Installation: Perma-Shield awning and Perma-Shield casement windows in a ribbon window configuration in masonry and frame wall construction

Printing limitations prohibit exact duplication of Terratone. Use actual sample for building specifications.
County Offices

Community Center
The Andersen® Perma-Shield® gliding patio door.

Be a two world designer. Use balconies, decks or patios to add the outdoor world to the indoor.

And count on the Perma-Shield® gliding patio door to join them.

Its profile is beautiful. Slim. Trim. For maximum light, view and ventilation.

Its exterior is sheathed in long-life, low-upkeep rigid vinyl. For carefree summer days.

And it's crafted three times tighter than industry air-infiltration standard 3-70. For weathertight winter nights.

Fuel-saving winter nights. Through its marriage of wood, double-pane insulating safety glass (triple-pane insulating safety glass is optional) and snug design.

All this in a gliding patio door that rolls open smooth and easy.

The Perma-Shield gliding patio door. For the best of both worlds.

Usages

Perma-Shield gliding patio doors can be arranged singly, in pairs or rows.

Applications

a. LaCroft Condominiums
   Charlevoix, Michigan
   Grand Rapids, Michigan.
   Installation: Perma-Shield gliding patio doors and Perma-Shield gliding windows in metal stud walls

b. The Oak Brook Club
   Oak Brook, Illinois
   Architect: Leitch/Kiyotoki/Bell & Associates
   Newport Beach, California
   Installation: Perma-Shield gliding patio doors and Perma-Shield casements in concrete block walls with face brick
The Andersen® Window Replacement System.

Your restoring, renovating and remodeling projects also have window needs.
To meet them, we offer The Andersen Window Replacement System.

Beautiful, low maintenance, fuel-saving Perma-Shield® windows are the heart of the System.
Specially designed Andersen installation aids custom-fit stock size Perma-Shield windows into virtually any window opening.
The aids support, fill in and trim out the exterior area around the installed Perma-Shield window when the window is not the exact size for the opening.

Completing the System is the 90-page Andersen Selection Guide. It explains exactly how to use the System. It also lists over 500 window opening sizes, all the Perma-Shield window styles and sizes that can be used for each opening and which Andersen installation aids will be needed.
The Andersen Window Replacement System.
It assures first-class windows the second time around.

Applications
a. The Creamery
   Sussex, New Jersey
   Architect: J. Arthur Johnsen, AIA
   Sussex, New Jersey
   Window Replacement: Perma-Shield® casement windows in Terratone color installed in 14” brick wall with stucco finish over rigid insulation
b. Union Wharf Development
   Boston Harbor, Massachusetts
   Architect: Moritz O. Bergmeyer
   Associates, Inc.
   Boston, Massachusetts
   Window Replacement: Perma-Shield® Narroline® windows installed in massive stone exterior walls
c. Hardin County Courthouse
   Kenton, Ohio
   Window Replacement: Perma-Shield® casement and awning windows installed in typical “turn-of-the-century courthouse” wall construction
For more information on the one specification that satisfies all, see our complete detail catalog in Sweet's Catalog File, Section 8.16/An. Or contact your Andersen distributor for a complete architectural detail file.
Rayflect™ in New Orleans

Superior looks, energy savings, and all that jazz.

Insulating Glass from Advanced Coating Technology.
Take a close look at the recently completed 1555 Poydras Building in downtown New Orleans. Gray granite banded with Rayflect Silver—reflective insulating glass made by ACT—achieves architectural distinction, enhanced by sawtooth bay windows that command sweeping views of the Mardi Gras city. As you can see, Rayflect’s quality shines through.

Now for something you can’t see. Energy efficiency. High performance, matched by top-of-the-line quality, that gets bottom-line results. ACT combines an exterior lite of high performance Rayflect Silver with clear glass, resulting in an airtight, double-sealed insulating glass unit.

In short, Rayflect insulates buildings to keep energy costs down. Reducing heating costs in cold climates. And cutting cooling costs in places like New Orleans.

More good news. All Rayflect Silver coatings are backed by a limited 10-year warranty on the coated surface and the insulating unit.

And one last consideration. At Advanced Coating Technology, we deliver on our promises (way down yonder in New Orleans and elsewhere). With prompt service, knowledgeable assistance and the kind of experienced know-how that has made ACT an industry leader.

The More You Look, The Better We Look
For more information, see Sweets #8.26 or write:

Advanced Coating Technology, Inc.
a subsidiary of Worthington Industries, Inc.
306 Beasley Drive, Franklin, Tennessee 37064 • 615-790-6001 • Telex 55-5145 ADCOTECHFRAN

1555 Poydras—New Orleans, Louisiana
Owner: Westminster City Center Properties
Developed by: Coleman Development Company, Inc.—New Orleans, La.
Architect: Skiles & Jennings Kelly—
Houston, Texas
Glazier: City Glass & Mirror Co.
Product: S05C Rayflect Silver Insulating Glass
ACOUSTICAL TREATMENT

265 EARTH TONE CEILING / "Second Look Colortone" ceiling panels are offered in four subtle earth tones, keyed to the colors of available grid systems. Lay-in acoustical panels are scored in one-in-wide lines (or either a square tile or linear look (shown). / Armstrong World Industries, Lancaster, Pa. GB*

266 ACOUSTICAL PANELS / "Ekoustic Functional Panels" are sealed to resist corrosion in swimming pool rooms. To increase speech intelligibility, a recent installation reduced reverberation time from 9.6 sec. to 2 sec. (with people) at 500 Hz. / Eckel Industries, Inc., Cambridge, Mass.

267 METAL CEILING / "Classique" lay-in panels are available in 13 colors, including three reflective finishes. They fit any standard 2-by-2-ft exposed ceiling module. Suspension systems are also offered to match exactly "Classique" panels. / Chicago Metallic Corp., Chicago, Ill. GB*

268 ABUSE RESISTANT PANELS / Auratone Glatex mineral fiber ceiling panels are said to be ideal for areas such as stairways, halls, locker rooms and gymnasiums. Coated with a heavy, paint-like texture, Glatex panels resist surface deformation under ASTM C367 test conditions, and have excellent damage-hiding characteristics. / United States Gypsum Co., Chicago, Ill.

269 ACOUSTICAL WALLS / Conweds new Silent 95 acoustical wall system offers attractive noise control required for open-office designs. The fabric-covered panels have an NRC of .95 and are designed for areas where reflected noise can hinder productivity. Panels come in 9 designer colors. / Conwed Corp., St. Paul, Minn.

270 ACOUSTICAL FOAM / Sonex 48-in.-sq panels have a sound-absorbing surface of evenly spaced, four-sided pyramids of open-cell foam. They have been used extensively in Europe to provide optimum sound control in architectural applications. Sonex Pyramids are available in silver, blue, yellow, brown, burnt orange and green, in 3- and 4-in. thicknesses. / Illbruck USA, Minneapolis, Minn.

271 CEILING TILE / Aurora design ceiling tiles have a warm ivory color and eroded pattern. The product comes in standard concealed or revealed tiles. / Conwed Corporation, St. Paul, Minn.

ADHESIVES

272 LATEX ADHESIVES / Recommended for use with this maker's cove base, stair tread and flooring accessories, latex adhesive is non-flammable and water cleansable. It can be used on plaster, plywood, paneling, mason and other structurally sound surfaces. / Roppe Rubber Corp., Fostoria, Ohio.

273 CONTACT ADHESIVE / Sadd provide extraordinary ultimate strength, "420" multi-purpose modified contact adhesive is marketed especially for vinyl-clad gypsum drywall over steel or wood studs. The adhesive has a neoprene base, waterproof and non-freezing. / Th W.W., Henry Co., Huntington Park, Calif.
CARPETING

274 HERRINGBONE PATTERN / "Crossbow" patterned carpet from Collins & Aikman has been Performance Certified by Badische Corporation for Class II, Heavy Commercial Traffic use. It is made of 42-oz 1/4-gauge cut-pile wool-like ZEFRAN blend CR-4 yarn (70 per cent acrylic and 30 per cent nylon). / Collins & Aikman, New York, N.Y.


276 CARPET TILES / Interface has introduced its new "Quantum Series," which combines loop-pile carpet tiles and a free-lay system of installation. / Interface Flooring Systems, LaGrange, Ga.

277 CUSTOM PATTERNS / A new computer program for pattern tufting will speed the design process for multi-colored, custom carpeting, the manufacturer reports. The company has a portfolio of 15 custom cut-pile patterns and one standard design, made with delustered "Zeftro" nylon yarn. Minimum order: 500 sq. yd. / Carpentry Mills, Rancho Dominguez, Calif.

278 MATCHING CARPETS / The manufacturer has introduced two geometric carpets, Cardinal Point (shown) and Crossbow, along with Award II, a companion solid. Cardinal Point has a three-toned pin-dot design. Crossbow, a broken herringbone pattern, All are 70 per cent acrylic and 30 per cent nylon with static control. / Colonnade Carpets, New York, N.Y.

279 DIAMOND DESIGN / Part of Karastan's "Berberau" line of coordinating Zefran acrylic carpeting. "Berberau Prisms" is a concentric diamond pattern available in natural berber colors. / Karastan, New York City.

280 TUFTED PATTERNS / This congruent ellipse design was produced on the Graphics machine, an advanced tuftex that creates woven-like patterns by the economical tufting process. Computer-generated pattern concepts are developed using this manufacturer's 232 standard yarn colors. / Badische Corp., Williamsburg, Va.

281 RANDOM DOT CARPET / "Craftsbury" level loop commercial carpeting has a random dot design produced by pattern tufting equipment. The Zefran 500 nylon carpet may be spot cleaned even with chlorine-based products, with virtually no color loss. / Mohawk Carpet, New York, N.Y.

282 SCHOOL CARPETING / Made of wool-like, low-luster Zefran nylon yarn, "Prime Spec" is performance certified for the extra-heavy traffic of schools and institutions. The level-loop carpet is available in 10 contemporary multi-colors and a range of custom-face weights. / J & J Industries, Inc., Dalton, Ga.

283 CARPET SQUARES / A textured-loop construction, "Endurance" is the newest addition to the Tex-Tile line of 18- by 18-in. modular carpeting. Solution-dyed olefin fiber is shockproof, stain resistant, and comes in eight colors. / Collins & Aikman, New York, N.Y.

284 PLUSH COMMERCIAL / "Freeze" heat-set twist carpeting of Antron III nylon is said to offer the soft look and feel of velvet with the durability characteristics of commercial floor coverings. Colors include neutral grays and earth tones as well as muted colors, burgundies and forest greens. / Collins & Aikman, New York, N.Y.

285 LOFTED LOOP / Available in 10 color-ways, "Design Point" carpet is a wool-like blend of Zefran CR-4 yarn, patterned in a subtle check. The 5/32-gauge carpet is suitable for Class II, heavy commercial traffic, and carries a five-year wear warranty. / Downs Carpet Mills, Willow Grove, Pa.
286 CIRCULAR DESIGN / One of 15 custom cut pile patterns available to suit a range of design criteria, "Style P-6220" has a bold circular motif, and can be ordered in any of 50 stock-dyed colors. / Patrick Carpet Mills, Ranco Dominguez, Calif.


288 ANTI-STATIC / The Compu-Tile line of anti-static carpet tiles meets BM recommendations for use on computer room access floors, and is said to have superior electrostatic properties even when compared to tile and other hard surface flooring. Offered in 18- and 24-in-square sizes, Compu-Tile comes in a range of colors in both level loop and cut pile constructions. / United Technical Products, Inc., Westwood, Mass.

289 CARPET TILE / A fine grid of subtly hued lines on a contrasting background, "Tattersall" is the newest Interface pattern specifically designed to be modular. Recommended for open office areas using flat cable wiring, bonded carpet squares free lay on the floor without curling or warping. / Interface Flooring Systems, Inc., LaGrange, Ga.

290 CEILING SUSPENSION SYSTEMS

291 DIRECTIONAL CEILING / Heavily textured "Bold Look III" ceiling panels are scored in one direction, with one-in-wide routings, for a strong, linear look. The 2-by-4-ft panels are available in white only, and are installed with a low-gloss grid. / Armstrong World Industries, Lancaster, Pa. GB*

292 PLASTER

293 PLASTER CASTINGS / A variety of medallions, cornices, door panels, moldings, and ceilings are available in 100 fire-safe designs and patterns. / Dovetail Inc., Lowell, Md.*

294 PREFINISHED PANELS

295 WOOD PANELING / The "European look" Profileboard panel system has genuine hardwood veneer on both face and exposed edge surfaces. Panels are grooved to go up with special galvanized clips and a wood spline, which establishes a ¼-in. reveal between individual panels. / Ostermann & Scheive, USA, Spanaway, Wash.

296 METAL WALL PANELS / Offered in 11 low relief textures suitable for walls, doors, counter faces, and other flat interior surfaces, "Bonded Bronze" panels are now available in a fire-retardant version, developed to meet Class I flame-spread requirements. / Forms & Surfaces, Santa Barbara, Calif. GB, 1*

297 RESILIENT FLOORING

298 SHEET VINYL / An extremely durable, low-maintenance floor for heavy traffic areas, Lonfloor sheet vinyl is now offered in 15 solid colors. Available in rolls 6 by 60-ft, Lonfloor can be heat- or solvent-welded to form a seamless, sanitary installation. / Loesel, Inc., Torrance, Calif. GB*
298 RESILIENT FLOORING / Made of synthetic rubber, Noraslate flooring reproduces the sculptured patterning of natural slate. Noraslate will not discolor, stain, crack or chip, and resists scuffs, burns, and chemicals. It is available in brick red, slate gray and black. / Nora Flooring, Madison, Wisc. GB, I

299 TWO-TONE FLOORING / A raised pastille design, Norament Duo synthetic rubber flooring is available in five two-color combinations. The slip-resistant floor is permanently self-waxing for low-cost maintenance. / Nora Flooring, Madison, Ind. GB, I

300 SHEET FLOORING / A floor composed of reinforced polyurethane, "Futur" commercial flooring has welded seams for a dense, sanitary surface. "Futur" does not require waxing. / Tarkett, Edgemont, Pa. GB, ICR

301 VINYL FLOORING / A random slate pattern, "Southgate" residential vinyl flooring comes in five colors: linen white, brown, beige, wheat and slate gray. / Biscayne Decorative Products, National Gypsum, Miami, Fl.

302 MOLDED RUBBER TILE / Factory-cut in 24- by 24-in. square tiles, "550S-L" molded rubber flooring provides a dry, non-slip foot surface for safe pedestrian traffic in lobbies, concession stands, elevators, etc. Tile comes in solid black, and nine marbled colors. / The R.C. Musson Rubber Co., Akron, Ohio, GB*

303 SPECIAL COATINGS & SURFACINGS

303 URETHANE COATINGS / The brick walls of these inner-city homes were covered with an aluminum-pigmented primer and two finish coats of a terra-cotta colored, light-stable Desmodur urethane paint system. Lacquer and aerosol paint graffiti was then easy to remove, using only conventional solvents or detergent spray, without harming the protective coating. / Mobay Chemical Corp., Pittsburgh, Pa.

304 GRAFFITI CONTROL / Two silicone and wax-based coatings are available to protect both porous masonry and non-porous surfaces from permanent defacement by graffiti. The clear products will not yellow or peel, and should last five years. / Anti-Graffiti Systems, Inc., Fredericksburg, Va.

305 WOOD FINISH / A clear, low-odor finish for cedar shingles, shakes and exterior siding. Aquatrol provides wood with a durable seal against the damaging effects of moisture absorption. A revised formulation, Aquatrol, now has a rich initial color, increased ultraviolet resistance, and easier no-thin application. / The Flood Co., Hudson, Ohio. GB*

306 SPECIAL FLOORING

306 SANITARY FLOORING / A heat-welded sheet vinyl, Altro Safety flooring contains a bactericid to inhibit gram-positive and gram-negative bacteria from flourishing. Altro comes in nine colors. An extra-strength version provides additional grip for extremely wet or greasy areas. / Altro Ltd., Jenkintown, Pa. GB, ICR*

307 FLOOR TILES / Designed to resist impact in heavy traffic areas. "Ecologica" tiles come in five mottled earth tones, with a vitrified red/brown body and a low-relief grid back. The tiles measure 12- by 12-in. / Marazzi USA, Inc., Dallas, Texas.

308 ITALIAN TILES / A new showroom and warehouse, Tilerama in Howard Beach (Queens), New York, will stock a variety of Italian ceramic tiles for quick delivery. Shown here: white Marazzi floor tiles (4- by 8-in.) and Cristallo wall tiles (6- by 8-in.) / Italian Tile Center, New York, N.Y.

309 VINYL WALLCOVERING / Paris Wall vinyl covering can be installed even on concrete block with little or no preparation, the manufacturer reports, using "Wall-Bond" Adhesive, a mildew-resistant formulation that can be rolled on full-strength with a brush. The system requires no special backing. / Paris Wall, Lancaster, Pa.

* In 1982 Sweet's Catalog File (a) General Building (GB) Light Residential Construction (LRC), Engineering (E); Interior (I); Industrial Construction & Renovation (ICR) (First time in Sweet's).
310 INDOOR/OUTDOOR TILES / Because it resists freeze-thaw damage, "Ironrock" ceramic tile can be used indoors or outdoors. The unglazed, flame-finished tile is available in range of earth colors / Metropolitan Ceramics, Inc., Canton, Ohio.

311 MATTE GLAZE TILE / For residential walls and counter tops, CeramicsUS "Windrift" tile features a subtly sculptured texture with a semi-gloss matte glaze finish. The 4 3/4" by 4 3/4" tiles are available in six colors, with matching trim shapes for most applications / United States Ceramic Tile Co., Canton, Ohio. GB*.

312 COPPER TILE / Large—12" by 12" — Roben tile uses copper metallic powder added during the firing process to produce burnished red colorations with darker shadings of black. The German-made tile can be applied on walls and floor in residential and light commercial applications / Roben Tile, Port Washington, N.Y.

313 CERAMIC TILE / Large-scale tile from ACIF of Italy, has hand-painted fruit designs, shown here on the walls and counter support of this kitchen-dining area / Italian Tile Center, New York, N.Y.

314 LARGE TILES / Square, 12 1/4-in. units. "Metropolis" series tile for residential and light commercial floors and walls now includes gray and light brown shades in an expanded range of 20 colors. All tiles are semi-vitrified with a low-relief grid back / Marazzi USA, Inc., Dallas, Texas. GB*.

315 DECORATIVE TILE / "Barbara's Basket" tile is shown here in two versions: a 12-tile flower basket design and individual floral tiles used as a border for the lighting fixture. "Teardrops," a provincial motif tile, covers the counter top / Florida Tile, Skies Corp., Lakeland, Fla.

316 TEXTURED TILE / With a double-glazed finish durable enough for commercial applications, "Plantation Series" tiles have a woven, textured appearance. The 4 3/4" by 4 3/4" wall tile is available in six sand, gold, and gray colors / Monarch Tile Mfg., Inc., San Angelo, Texas. GB*.

317 BRICK TILE / "Homestead" tile from Wenczel is shown here installed in a herringbone brick pattern. The rectangular floor tile is available in cherry red, antique white, and tobacco blend colors / Wenczel Tile Co., Trenton, N.J.

318 STONE-LOOK TILE / "Millstone Series" ceramic wall tile has an undulating surface said to have the look of naturally worn stone. "Millstone" comes in a 4 3/4"-in.-sq. size, offered in five colors that coordinate with popular bath and kitchen fixture shades / Monarch Tile Mfg., Inc., San Angelo, Texas. GB*.

319 COMMERCIAL TILE / Iris ceramic tiles from Italy can be used indoors and out, achieving a visual unity between lobby and courtyard, for example. Tile has a high abrasion level / Italian Tile Center, New York City.

320 SQUARE EDGE TILE / The color range of "Sierra" ceramic tile has been expanded to coordinate with the newest kitchen appliance and bath fixture shades. Fourteen colors are now offered in both square tile and trim shapes / Franciscan Ceramics, Inc., Los Angeles, Calif.

321 QUARRY TILE / A rough-textured floor tile available in four earthtone colorations, "Quarry Naturals," form a slip- and strain-resistant flooring for residential, commercial and industrial applications. Tiles come in three rectangular and square sizes, with matching trim shapes / American Olean Tile Co., Llamdale, Pa. GB*.
322 GLAZED TILE / Imported from Italy, "Mono Forte Monocultura" tiles have a frostproof body for use outdoors in any climate. Offered in squares and rectangles up to 12 by 16 in. in size, tiles come in a range of earth-tone colors. / Huntington/Pacific Ceramics, Inc., Corona, Calif.

323 PORCELAIN TILE / High-fired floor tiles are extremely hard, slip resistant, and impervious to moisture. Radius-corner tiles have a transparent glaze, and are currently available in four shades of gray. / Form & Surfaces, Santa Barbara, Calif. GB *

WALL COVERING

324 TEXTURED WALLCOVERING / In the Woven Wall collection, the group of woven wallcoverings called "Bolla" is woven in either a string pattern or in vertical flamestitch, and is available in earth colors as well as apricot, seafoam green, and gray. / Decor International, Long Island City, N. Y.

325 PATTERNED VINYL / An addition to the "Guard Collection" of commercial vinyl wallcoverings, "Casabella" has stripes angled to form a 3-in-wide chevron pattern, designed to be read at a 15-20 ft. distance. The 54-in. Type B wallcovering comes in 27 colors. / Columbus Coated Fabrics, Columbus, Ohio.

326 ITALIAN FABRICS / Thirty-two small-scale patterns and solid pastels on a warp or woven base; the "Diversions" line of DecorWoven wallcoverings is designed, colored and woven in Italy. All are Class A flame spread rated. / Giford Inc., New York City.

327 LINEN WALLCOVERINGS / Offered in textures ranging from subtle to bold, natural linen wallcoverings are suitable for residential and contract applications. Sixty-eight patterns are available, all with a Class A flame spread rating. / Design Tex Fabrics, Inc., Woodside, N. Y.

328 GRAPHICS WALLS / Thermoformed from Acrylic (vinyl/acylate) wall covering, Acroylform decorative panels can be custom-molded in special designs, geometrics, logo or trademark. The Acroyl wall covering system meets ASTM E84-75 fire requirements / Construction Specialties Inc., Muncy, Pa. GB *

329 RATED WALLCOVERING / Gypsum impregnated Flame Wall material is now offered in a "French Weave" linen-look pattern, which applies like wallpaper to concrete block, tile, and prefinished paneling as well as conventional surfaces. It has a Class A flame spread rating, with zero toxic smoke production. / Heso Wall Systems, Liberty, S. C. GB *

330 FLEXIBLE TAMBOUR / Available in hardwood veneer of white oak, pruned wood grains, and metallic mylars. "Flexible Tambour" wallcovering fits easily around gentle curves or sharp corners. Tambour comes in 4 by 4-5 by 8 by 4-5 by 10 ft sheets, with 29 patterns in stock. / Flexible Materials Inc., Louisville, Ky.

WOOD FLOORING

331 WOOD FLOORING / The new "Continental" flooring pattern is shown here installed in a bank boardroom. Like other "Custom Classics" floors, it comes preassembled in a 30-in.-sq module for easy mastic installation. Floor is available in plain or quartered oak, ash, walnut and cherry, in a range of texture and finish options. / Kentucky Wood Floors, Inc., Louisville, Ky. GB *

332 OAK PARQUET / Made of Northern Oak in finger-block squares, parquet flooring comes prefinished with a penetrating sealer and liquid wax coating. The beveled edges of each section compensate for any slight variations in the subfloor. "Northern Oak" is available in white oak with walnut tone finish. / Robbins Inc., Louisville, Ky.

333 PLANK FLOORING / Solids, 1/2-in. hardwood with both beveled edge and a square joint, "Colonial Plank" flooring is available in 4, 6, and 8-in. widths. Flooring comes in Red Oak, White Oak, and Angate Oak Teak / Harris Mfg. Co., Johnson City, Tenn.
**OFFICE LITERATURE**

**UCI 9: FINISHES**

**CONTRACT CARPETING** / A selection and specifications guide illustrates 160 Perform-
ance-Certified lines of carpeting made of ZERFAN acrylic and ZETRON nylon yarn. The 1981 edition of this guide is written to help the specifier select the proper carpet for a job. Text items 12 important points to consider before specifying a carpet. • Badische Corp., Wil-
liamsburg, Va.

circle 3346 on inquiry card

**WALLCOVERING** / A collection of specialty wallcoverings is compiled for a first volume showing vinyls with the look of suede, leather, woven fabric and cork. The collection is divided into segments according to style to facilitate selection. Specifications are provided at the bottom of each sample page. • J.M. Lyne Co., Haupp-
auge, N.Y.

circle 3351 on inquiry card

**CERAMIC TILE** / "Terra Craft" ceramic floor tile line is intro-
duced in a 4-page, color brochure. Tile shapes, patterns and
colors are displayed. Sizes range from 4-in. squares to 12-in.
 octagons. The tiles feature rounded edges; their hand-
made look is enhanced by sur-
face variations and slight differ-
ences in color and dimension.
• Franciscan Terra Craft, Los
 Angeles, Calif., GB 1

circle 3347 on inquiry card

**INTEGRATED CEILING** / The components of the manufacturer's ceiling systems are de-
scribed in a 24-page brochure featuring detailed information on Fiberglas ceiling panels, a sus-
pended grid system, three
luminaires for the system, sound
masking and air distribution.
• Owens-Corning Fiberglas
 Corp., Toledo, Ohio 1

circle 3350 on inquiry card

**PAINT COLOR SECTOR** / The Color Key Program, an
internationally-accepted color
selection and coordination sys-
tem, is presented in a 6-page foldout. Use of the system, ac-
cording to the brochure, en-
sures color compatibility. • De-
voe & Reynolds Co. and Ameri-
tone Paint Corp., Louisville, Ky.
and Long Beach, Calif., GB 1

circle 3348 on inquiry card

**VINYL WALLCOVERING** / A 12-page guide for specifying
vinyl wallcovering is available.
The properties of the Guard
coction for commercial appli-
cations are detailed, with tables
summarizing such information as
flame spread and breaking strength. Suggestions on surface
preparation and application are
provided. • Columbus Coated Fabrics, Columbus, Ohio

circle 3353 on inquiry card

**CERAMIC TILE SYSTEM** / A pre-grouted ceramic tile system, ideal for kitchens, bathrooms,
restaurants, food-processing areas and other applications, is de-
scribed in an 8-page booklet. The tiles are grouted with sil-
icon rubber, and the sheets are
offered in various sizes.
• American Oleen Tile Co., Langdale, Pa.

circle 3349 on inquiry card

**SAFETY FLOORING** / The benefits of the manufacturer's safety
flooring are emphasized in an
8-page brochure. Those bene-
fits include slip-proof surface,
resistance to abrasive wear,
acids and alkalis. Detailed informa-
tion is provided, and the customer is
informed of the development of the products and how they should be
installed and cared for. • Alto
Ltd., Jenkintown, Pa., GB 1

circle 3354 on inquiry card

**FLOORING** / An 8-page cata-
log showcases the line of flooring products. Featured are cove
base and corner pieces, available in 20 satin-finish colors. Also shown: a 12-color line of heavy- and light-duty stair
rugs; stair nosings, accessory items. Complete specifications are
included. • Roppe Rubber Corp., Fostoria, Ohio GB 1

circle 3350 on inquiry card

**METAL CEILING PANELS** / Ele-
gant metal ceiling panels are
exhibited in a 4-page brochure. The 2-ft by 4-ft lay-in panels are
offered in 13 colors, including white, bronze, walnut grain,
gold, ivory, pumice, black and three reflective finishes. • Chi-

circle 3360 on inquiry card

**ACOUSTICAL SYSTEMS** / A 16-page brochure describes
line of acoustical systems. Com-
ponents include decorative
wood and metal grilles, sound
absorptive material and protec-
tive facing for the latter. Text
data are included. Four-color photographs display decorative
grille designs available in oak
redwood and polished chrome
on steel. • Forms & Surfaces
Santa Barbara, Calif.

circle 3356 on inquiry card

**CARPETING** / A 14-page brochure provides detailed infor-
mation on Hercules olefin car-
pet fiber, yarn systems and the
manufacturer's carpeting. Fea-
tures such as soil and moisture
resistance and "lock-in" color are discussed. Minimum-per-
formance specifications are
included. • Hercules, Inc., Nor-
cross, Ga.

circle 3357 on inquiry card

**MARBLE TILES** / An 8-page cata-
log displays a wide variety of
French and Italian marble tiles.
The decorative panels are 6-ft
sq., but only 3/8-in. thick. The
marble is installed like ceramic tile. Fifteen shades are offered.
• Marble Technics, Ltd., New-
York, N.Y.

circle 3358 on inquiry card

**ACOUSTICAL CEILINGS** / A complete line of acoustical ceil-
ing panels and tiles is displayed in a 20-page booklet. Included
are such products as Acoust-
tone, Auratone, Vista Sonic and
USG gypsum ceiling panels. Four-color photographs show installations in a variety of applica-
tions. • U.S. Gypsum, Chi-
gago, Ill., GB 1

circle 3359 on inquiry card

**SHEET VINYL FLOORING** / Six flooring lines are featured in an
8-page brochure. The sheet
vinyl floor coverings are primar-
ily for commercial and institu-
tional use. Some of the recom-

circle 3355 on inquiry card

**METAL CEILING PANELS** / Ele-
gant metal ceiling panels are
exhibited in a 4-page brochure. The 2-ft by 4-ft lay-in panels are
offered in 13 colors, including white, bronze, walnut grain,
gold, ivory, pumice, black and three reflective finishes. • Chi-

circle 3355 on inquiry card

*In 1982 Sweet's Catalog File (3); General Building (GB); Light Residential Construction (LRC); Engineering (E);
architectural (A); Industrial Construction & Renovation (ICR) First time in Sweet's.
Hartco. Best cost per foot.

Hartco® Acrylic Impregnated Solid Oak Parquet costs a little more than carpeting in the beginning. But long after all those footsteps have worn a path and your client has paid to have that carpeting replaced and replaced, Hartco is still beautiful. Which means it's less expensive in the long run—perhaps the least expensive floor you can specify.

Tough acrylic is forced deep into the pores of the oak to make an exceptionally hard surface that will endure, even in high-traffic commercial installations. And the stain goes all the way through the wood, so the color won't wear off.

Hartco is easy to maintain. Easier than carpeting that must be shampooed. And easier than other wood floors that must be waxed and refinished. All it takes to keep this floor beautiful is vacuuming, spraying with our commercial-grade Spray Shield and buffing.

And it's fast and easy to install. Hartco is completely factory-finished so there's no on-site sanding, staining and finishing. Each 12" square has carefully tapered tongues and grooves and is crafted to 9/1000" tolerance for a smooth, even fit.

Hartco is 100% Appalachian oak—an oak that's exceptionally hard due to the climate and soil in which it grows. And it's 80% quartersawn for longer wear, greater dimensional stability and a more distinctive grain pattern.

Plus Hartco is the only impregnated oak available with a 1/16" foam backing to insulate, add comfort underfoot and to act as a superior sound and vapor barrier.

When your design calls for a natural, beautiful, cost-efficient floor, specify Hartco Impregnated Solid Oak Parquet. Even though it costs a little more by the square yard. By the footstep, it's dirt cheap.

For more information, phone our Technical Services Manager at 615 569 8526, or write Tibbals Flooring Company in Oneida, Tenn. 37841. Or refer to Sweet's No. 922/Ti.
ACCESS FLOORING

346 FLOOR PLENUM / Perforated panels circulate air to or from under-floor space, and are interchangeable with any Tate access floor system. "Perf Panels" are available in 24-in. or 600-mm square sizes, with either 25- or 6.67-per cent open area. / Tate Architectural Products, Inc., Jessup, Md.

347 ACCESS FLOORING / Supported on pedestals as shown, or by a stringer grid system. "Mod 800" two-ft-sq steel panels come in five standard strengths for concentrated loads up to 1250 lbs per sq in. Floor may be surfaced in carpet, vinyl, ceramic tile or laminates. / Tate Architectural Products, Inc., Jessup, Md.

350 STOVE SYSTEM / Designed by Danish architect Michel Vincent, the "Arneo" sheet steel and cast-iron stove offers 15 possible combinations of open hearth fire, space heating, barbecue, etc. units. Build-up stove can use wood, charcoal, and coal as fuel. / Bodart & Gonay SpRL, Theux, Belgium.

349 FIREPLACE / A zero-clearance fireplace. The "Stoveplace" works both as a heat-circulating open hearth and, with the air-tight doors shut and dampers adjusted, as an efficient wood-burning stove. Firebox is boiler plate steel, with a brick pattern refractory floor. / Superior Fireplace Co., Fullerton, Calif.

348 OPEN-END FIREPLACE / Custom, 42-in. built-in fireplace units come with either right- or left-end openings. Accessories include heat-circulating devices and five-panel standard glass doors. / Preway Inc., Wisconsin Rapids, Wis.

IDENTIFYING DEVICES

351 INTERIOR SIGNAGE / Tactile Raised Image Signage, a total interior system, supplies functional signs with raised lettering and symbols, painted to contrast with the background, which are universally understood by the blind and visually handicapped. Braile lettering is a no-extra-charge option. Tactile signage complies with Public Law 93-111. / Generic Sign Systems, Inc., Northbrook, Ill.

354 STEEL LOCKERS / A recessed locking mechanism is a standard feature available on a new line of Superior steel lockers. Recess protects the lock itself and eliminates protrusions from the locker front. Abrasion-resistant enamel finish comes in 12 colors. / List Industries Inc., Matteson, Ill. GB, LRC *
PEDESTRIAN CONTROL DEVICES

358 PLASTIC NETTING / Conwed Birdnet plastic netting protects buildings from roosting pigeons and other pests—without chemicals. After application, the durable, lightweight netting that usually lasts five to eight years. / Conwed Corp., St. Paul, Minn.

359 BIRD CONTROL / Designed especially to rout pigeons from renovation projects that involve restoration and preservation of historical sites. Nixalite’s straight-shape stainless steel bird control device will blend inconspicuously with building lines. / Nixalite Co. of America, Moline, Ill.

360 MOVING AISLE SYSTEM / Only an Allen wrench and a screwdriver are needed to install a Stacor high-density filing system. Shelving, racks or other types of storage equipment are placed on rolling carriers which glide on rails. / Stacor Corp., Newark, N.J.

361 SWISS FILE / Space-saving vertical storage unit, manufactured by Gabs keeps files on an active basis, ready to use. Suspended drawings are kept safe and clean. / Charrette, Woburn, Mass.

362 HIGH-DENSITY FILE / The Tab-Trac mobile storage system fits into the smallest possible space. Carriages move along the flush tracks that are part of the carpeted, custom-fitted floor. Aisles are created—by hand, mechanical-assist, or electrically—only when and where they are needed. / TAB Products Co., Palo Alto, Calif. ICR*

SUN CONTROL DEVICES

363 AWNING MECHANISM / Used in pairs, Boyle’s “Constant Tensioning Mechanism” provides no-distortion extending and retracting of solar screens and shades. Electrical units can be automated for clock, solar and temperature activation. Equally useful on vertical glazing or passive solar installations. / John Boyle Co., Inc., New York City.

364 SOLAR SCREENS / The 3-S Halu-Rollscreen reflects sun radiation up to approximately 85 percent, admits non-blinding light to interiors, and permits an open view, privacy, and air circulation. Designed for outside mounting, its mechanical construction is maintenance-free. / 3S Halu-Rollscreen, Rancho Cordova, Calif.

365 ALUMINUM CANOPIES / Components of the Countrywood Sun Screen System can be used to create many variations including window awnings and privacy screens. / Alcan Building Products, Warren, Ohio.

366 INSULATION FILM / “Scotchtint” P-16 (bronze) and P-13 (smoke) window insulation films can reduce window heat loss by 21 to 33 percent. They are designed for both commercial and residential use. / 3M-Energy Control Products, St. Paul, Minn.
Setting the pace in space management.
Spacesetter operable wall systems have created a new standard for the industry. Our unique design is years ahead of the competition and gives you advantages never before available in its price range.

New designing freedom.
Now you can have the freedom of flexible space without the aesthetic limitations. We've eliminated the bold vertical frames that separate most other panels. Finishes on Spacesetter panels wrap completely around to give you a clean, fine line where panels join. And drop seals are automatic, requiring no face-mounted activators. Once extended into place, panels form smooth, permanent-looking walls.

Simplified space flexibility.
Reversible interlocks built into Spacesetter panels make setup and operation easy. Panels have no lead or trail edges, so they can be attached to either the right or left edge of the next. Their reversibility allows maximum flexibility from your track system. Alternate panel faces may, for example, be mixed for purposes of design or function.

The interlocks in Spacesetter panels are deeper than those of most other operable walls, insuring proper alignment. And floor seals are completely self-leveling.

Class “A” flame spread rating.
These are the most economical operable walls you can buy that are built of Class “A” flame spread rated materials. Their metal frame construction makes them fire-resistant and resistant to the damaging effects of time and humidity. Extensive impact and stress testing during development has shown Spacesetter walls will retain their shape and dimensional stability through years of frequent relocation.

Spacesetter walls are available in four compatible models—continuously-hinged, paired and single panel systems, and trackless portable panels—to fit your needs precisely. For our new brochure, contact the company that’s first in walls that move. Write Modernfold, Box 310, New Castle, Indiana 47362. Or call (317) 529-1450. In Canada, write P. O. Box 399 - Station E, Toronto, Ontario M6H9Z9, or Telex: 27-2285.

Modernfold
An American-Standard Company

Circle 1049 on inquiry card
BANK & VAULT EQUIPMENT

391 BANK DEPOSITORY / The "American Dual" takes both bag and envelope deposits in one jam-proof hopper. An illuminated "depository" sign is visible day and night. The "Dual" unit saves space and allows for installation in thinner walls with minimum chute lengths. / The Mosler Safe Co., Hamilton, Ohio, GB*


FOOD SERVICE EQUIPMENT

393 WALK-IN COOLER / Using foamed-in-place technology and Fine-line long span ceiling panels, walk-in coolers may be up to 16-ft deep without external or internal supports. Magnetic gaskets prevent air leakage. Finish options include stucco, aluminum, galvanized, stainless steel, and a number of acrylic enamel colors. / Nor-Lake, Inc., Hudson, Wisc. GB*

394 KITCHEN HOOD / The "Vari-Vent" hood system offers the operator the option of exhausting only over cooking equipment actually in use. The hood is divided into separate stations; filters and design eliminate grease buildup in ducts or on roof. / Greenheck Fan Corp., Schofield, Wisc.

395 ICE CUBE MACHINE / New solid-state controls on Kold-Draft's ice cube machines deliver up to 10 percent more ice, with longer equipment life and easier servicing. / Kold-Draft Div., Uniflow Mfg. Co., Erie, Pa. GB, E*

LABORATORY EQUIPMENT

396 EYE/FACE WASH / A compact unit for laboratory installation, "Model 907" wall-mounted emergency eye and face wash has a 12-ft long recoiling hose. A wall bracket and hold-open device allows for two-handed first aid. / Western Drinking Fountains, San Leandro, Calif.

LAUNDRY EQUIPMENT

397 COIN-OP DRYERS / Twin, stacked commercial dryers. "The Stackables" fit in about the floor space of one standard dryer, but offer twice the drying— and revenue—capacity. A security hood protects the slide and vault area. / Hotpoint, Louisville, Ky.

LOADING DOCK EQUIPMENT

398 DOOR OPERATORS / For commercial and industrial garage doors, jack-shaft operators can move doors up to 20-ft high. They can drive existing cross-header shafts, and can also be mounted to either side or over top of the door connected to the shaft with a flanged coupling. / Allister Mfg. Co., Exton, Pa. GB*

399 DOCK SHELTERS / Properly-designed loading dock seals and shelters should substantially reduce energy loss in industrial or commercial buildings, according to Tuf-Seal. They offer a full line of dock seals, truck and rail shelters. / Tuf-Seal Corp., Muskego, Wisc.
**RESIDENTIAL EQUIPMENT**

**401 UNIT KITCHEN** / Specially designed to meet the needs of persons confined to a wheelchair. "Model COH-48" unit kitchen features a sink at 34½-in. counter top height, eye level refrigerator, electric oven and three-burner cook top, and pullout cutting board. / Cervtor Kitchens, Inc., South El Monte, Calif. GB*  


**403 INDUCTION COOKTOP** / A four-element unit, the Magnawave is now marketed in all 50 states. Heating only the ferro-magnetic metal cookware to cook food, the Magnawave is said to provide the speed, response and precise heat control of gas, in a safe, odorless and easy to clean electric cooktop. / Chambers Corp., Oxford, Miss. LRC*  

**404 MICROWAVE/OVEN** / Two ovens offer four cooking methods: the Companion microwave cooks food by time or temperature; the Retained Heat oven provides energy-efficient conventional electric cooking as well as variable temperature broiling. Self-cleaning oven matches degree of cleaning to amount of soil. / Chambers Corp., Oxford, Miss. LRC*  

**405 BATH FURNITURE** / A European look with no visible hinges and no revealed face frames. The "Tamarisk Collection" features genuine oak fronts finished in black (painted), natural or white. Units are available in widths of 24- to 60-ins.; modular design permits multiple side-by-side installation. Retail prices, including integral bowl top, start at $130. / Perma-Bilt Industries, Torrance, Calif.

**406 DISHWASHERS** / New "Energy Saver V" dishwashers can operate on energy-saving 120-deg. input water, their Sure-Temp heating system raises incoming water to 150-deg for sanitary cleaning. Other features include "Low Energy" wash and dry cycles. / Hobart Corp., Kitchen Aid Div., Troy, Ohio.

**407 SURFACE UNIT** / Now offered in a limited Western market area, General Electric's induction cooking surface unit measures 42-in.-wide by 23-in.-deep, with a wooden cutting board across the front. Cooking surface is black ceramic, with the coil areas outlined. Solid-state controls provide 30 power levels. / General Electric Co., Louisville, Ky.

**408 OAK KITCHENS** / Light oak is now offered in Heidapal's "ED" program of modular kitchen cabinets. Laminate is combined with solid oak for the cabinet fronts; laminate has a distinctive grid pattern. / Heidapal Designs, Santa Cruz, Calif.

**409 DUCTLESS FAN** / The "CA/90" air treatment system has been redesigned to draw more air through the deodorizing filter, and has a new grill face. Useful in any small, closed-in area, the ductless fan saves energy, and reduces the danger of fire and smoke spreading through ductwork. / Rush-Hampton Industries, Inc., Longwood, Fla. GB*  

**410 KITCHEN SET-UP** / With a straightforward contemporary look, Roseline has designed a complete system of cabinet and work areas for the kitchen (shown) and for light commercial installations as schools and medical offices. / Roseline Products, Inc., Farmingdale, N.Y.

**WASTE HANDLING EQUIPMENT**

**411 WASTE COMPACTORS** / Refuse compaction equipment is offered for any volume requirement in hospitals, plants, schools, restaurants, etc. Shown here is the "820 Container Packer" for both manual and automated use in large apartments, industrial plants and warehouses. / International Physics Corp., Norwalk, Conn. GB*
11: EQUIPMENT

NUCLEAR EQUIPMENT / Literature is available from Combustion Engineering, Inc. which describes the CE-Studwik compact nuclear reactor. This new nuclear trainer provides classroom-size digital simulation of the complete nuclear power plan. Systems and components are illustrated. • Combustion Engineering, Inc., Windsor, Conn.

circle 3204 on inquiry card

LOADING DOCK DESIGN / The basics of loading dock design and materials flow are the subject of a 20-page manual. The publication covers such factors as truck height, dock height, equipment selection. Many charts, graphs and photographs are used as illustrations. • Advance Lifts, Inc., St. Charles, Ill.

circle 3205 on inquiry card

DOCK SHELTERS / An in-depth review of dock shelters is available. The 20-page, four-color booklet discusses such questions as why dock shelters are necessary, what differences are between various models, and how shelters should be specified for a particular job. • Formmitt Industries, Inc., Dubuque, Iowa.

circle 3206 on inquiry card

UNIT KITCHENS / Complete specifications and product descriptions fill out an 8-page, four-color catalog of compact unit kitchens. Ten series are featured, ranging in size from 30-in. to 72-in. Special features, which the manufacturer offers as "standards," are highlighted. • Acme National Refrigeration Co., Long Island City, N.Y.

circle 3210 on inquiry card

DOCK SEALS / The full line of dock seals, truck and rail shelters are presented in a 12-page brochure. Tight construction and product durability are stressed in the text. Each model is shown in a photo, and its design and construction features are described. • Tuf-Set Corp., Greendale, Wisc.

circle 3207 on inquiry card

COFFEE MAKERS / The automatic electric Model F coffee brewer which has three separately controlled warmers for greater serving capacity is described in a new full-color bulletin. Listed are finish options, tank heater capacities, and agency approvals. • Bunn-O-Matic Corp., Springfield, Ill.

circle 3212 on inquiry card

WALK-IN FREEZERS / A line of ventilated, walk-in coolers and freezers is presented in an eight-page foldout. Text with accompanying photographs point out the many construction features that are designed to provide a tightly sealed and secure unit. Standard and custom colors are illustrated. A line of accessories is also displayed. • Nor-Lake, Inc., Hudson, Wisc.

circle 3214 on inquiry card

EFFICIENCY KITCHENS / A complete line of efficiency kitchens-bar is exhibited in an 8-page brochure. The units shown are different configurations of the basic components: stainless steel sinktop, cooking elements, refrigerator, icemaker, oven; optional equipment is also available. • Douglas Creston Int., Inc., Washington, D.C.

circle 3215 on inquiry card

BATH FURNITURE / An 8-page brochure introduces a line of bathroom furniture. Nine different collections are featured, ranging in style from a traditional look to a sleek, contemporary look. Each collection includes a vanity, mirror or medicine cabinet, top lighting and wall storage unit. • Perma-Bilt Ind., Torrance, Calif.

circle 3216 on inquiry card

COMPACT KITCHENS / A 16-page booklet describes the wide variety of compact efficiency units that can be ordered. The manufacturer offers a choice of appliances, decorative hardware and laminate finishes, and options that can be combined into any number of configurations. Some of the possibilities are shown in color photographs. • Cleveland Kitchens, Inc., South El Monte, Calif.

circle 3217 on inquiry card

MICROFICHE CAMERAS / Three series of microfilm cameras are given the spotlight in a 12-page catalog. Each series is fully described, its features and capabilities listed or summarized in tabular form. Camera specifications for all three models are included. • Dietzgen Corp., Des Plaines, Ill.

circle 3218 on inquiry card
ARTWORK

424 MURALS / Over 100 designs, in widths from 3 ft to infinite, are offered in the Selecta Photomural line. Fire-rated grounds include paper and paper-backed vinyl and various fabrics; printing is done by lithograph, silk screen or hand print. / Selecta Inc., Los Angeles, Calif.

425 SCREEN GRAPHIC / Hand-screen printed on paper-backed vinyl, "Bare Tree" wall graphic measures 8-ft 10-in. by 6-ft 10-in. Both silk-screen vinyl and photo-murals are offered for large-scale decoration. / Environmental Graphics Inc., Minnetonka, Minn.

426 STAINED GLASS / Created by a process that fuses colored glass sections directly onto whole sheets of background glass without leading, custom and limited edition works are available in the form of windows, screens, tables, and dropped stained glass ceilings. / Creative Glassworks International, Inc., Fairfield, Iowa.

427 SERIGRAPH / Pictured above is a serigraph by Donald Lawrence Herron, an example of the works of art available to the contract specifier from Karl Mann. Decorative objects range from oil paintings to ethnographic artifacts. / Karl Mann Assoc., New York City.

CABINETS & STORAGE

428 DISPLAY CABINET / Illuminated vitrine uses brass cables in a dual function: to support the glass shelves, and to house the electrical power wiring for the small spotlights. Both brackets and lighting are adjustable. Glass may be specified clear, bronze-tinted or mirrored. / The Pace Collection, Inc., Long Island City, N.Y.

429 SECRET COMPARTMENT / Hide-Away security systems are custom-designed to conceal safes, collections, even private rooms. Access can be through the classic revolving bookcase as shown here, or by stairs, hatches or hidden doors. All modern security devices—electronics, pneumatic actuators, encoded cards, etc.—can be incorporated into the system. / Hide-Away Custom Security Systems, Salt Lake City, Utah.

430 OFFICE STORAGE / Spacefinder color-coded files and cabinets facilitate access: two or more people can use the same cabinet at the same time. They require only half the space needed by drawer and rollout files, and may be moved and regrouped without unloading. / Tab Products Co., Palo Alto, Calif.

431 DISPLAY CABINET / The "Hilton System" offers 12 components—glass sided or open cases, dropleaf writing surface, pull-out bar—which are usable from either side to serve as a space-dividing element in home or office. Cabinets are walnut veneer, or board finished in black or Chinese Red nylon-particle lacquer. / Atelier International, Ltd., New York City.

432 PAPER HANDLING MACHINES / This paper management system comes in separate components that can be hung vertically, horizontally, or diagonally on panel-mounted rails, on or beneath shelves, or set free-standing. Units can be used in various combinations, and can fit into the company's UniGroup office system. / Haworth, Inc., Holland, Mich.
33 BATH CABINETS / Built to withstand the high humidity conditions of bathrooms, "Roanoke" vanities and cabinets have a hardwood frame, wood-grain laminate side panels, and pre-hung polystyrene doors. Units are guaranteed for five years. Also shown is the "Arranger" mirrored medicine cabinet with matching light strips. / Chemcraft Inc., Elkhart, Ind.

34 KEY CABINET / Made of rolled steel, the "Model DWT-1200S" cabinet may be attached to a wall or mounted on a table with rubber feet, as shown. Piano-hinged doors open completely to permit access to the twelve panels, which each hold 100 individual keys. Unit weighs about 150 lb, and lists for $925. / Telkee Inc., Glen Ridge, Pa.

35 FABRICS / A wide variety of fabric coverings—40 in all—that can be specified for any of this manufacturer's open-plan acoustical panel systems is now available. The collection includes subtle tones of gray, salmon, plum, burgundy and blue. / Panel Concepts, Inc., Santa Ana, Calif.

36 DRAPERY SILKS / Forty patterns, many imported handweaves, are suitable for drapery and upholstery use in both contract and residential applications. Textures range from sheers and subtle linen and subtle weaves to woven stripes, geometricals and plaids. / Decorators Walk, Plainview, N.Y.


38 LUXURY FABRIC / Pleated silk, called "l'adora" by the manufacturers, is designed for drapery and upholstery use in homes, offices, and cars. The product has a soft gimmer and sculptural effect when draped. It comes in nine hues. / Gretchen Bellinger Inc., New York, N.Y.

39 JACQUARD WEAVE / "Sorel Damask," woven of rayon and cotton, is based on 19th-century paisley patterns. The 51-in.-wide upholstery fabric is offered in 10 colors, ranging from pastels to midnight blue, as well as natural and white. / Brunschwig & Fils, Inc., New York City.

40 WOOL/NYLON BLEND / Said to have "superwear" characteristics, "Wool Andes" has the soft feel of a handwoven textile. Designed by Hazel Siegel, "Wool Andes" is available in a range of 25 colors. / DesignTex Fabrics, Inc., Woodside, N.Y.

41 FIRE-RESISTIVE / Shown here with dot-patterned "Nyro Orbit," "Pyro Quartz" is a definite texture woven of 75 per cent modacrylic and 25 per cent nylon. Upholstery fabric meets the Fire Code requirements of the City of Boston and the NY Port Authority. / DesignTex Fabrics, Inc., Woodside, N.Y.

42 FABRICS / The Diagonals, designed by Joyce Vagasy, are 100 per cent wool, mothproofed fabrics that are offered in 15 solid colors. / Joyce Vagasy, a division of Amicale Fabrics, New York City.

43 FABRICS / These two 100 per cent wool fabrics are offered in natural ivory-white and dusky greige. The "Shadows" pattern consists of diagonal stripes at one-half in intervals. The "Straightforward" design is vertically striped at two and one-half intervals. / Joyce Vagasy, a division of Amicale Fabrics, New York City.

44 FABRICS / These three 100 per cent woolen cloths by Joyce Vagasy are available in ivory-white/dusky greige and 22 colors. "Elegance"—rectangular blocks on a pebbled ground, "Minicord"—a traditional stripe pattern, and "Vice-Versa"—rectangular counterplanes are checkered for a subtle textural movement. / Joyce Vagasy, a division of Amicale Fabrics, New York City.

446 WOOL FABRIC / A plain weave made up in 10 soft, two-tone colorations “Cotswold.” 5-in. wide fabric is 300 per cent mothproofed wool. / Gretchen Bellinger Inc., New York City.

447 VELVET RIB / For contract and residential application, “Pirate” velvet rib comes in seven colors, from red to gray. The 55-in. wide fabric is woven in Italy of 55 per cent linen and 45 per cent cotton with a natural hand and pile crush. / Gretchen Bellinger Inc., New York City.

448 UPHOLSTERY FABRIC / “Deauville” and “Gaspé” medium-weight upholstery are offered in a total of 16 colors for contract applications. “Deauville” is a Tweed of three yarns, in different colors, used alternatively for texture and depth; “Gaspé” is a plain, lightly-brushed wool upholstery. / Sunar Textiles, Norwalk, Conn.

449 HAND-PRINTED SILKS / Working with a densely-woven silk from Northern China, designer Larry Rosen hand-screens and hand-dyes contract patterns such as “Fall Line” and “Shoofly,” shown here. Silk fabric is 36-in. wide, offered in a number of colorways. / Upper South Studio, Winston-Salem, N.C.

450 FLOOR MATS / FLOOR MAT / VYNASTAT, a new anti-static mat is intended for use in stand-up applications where computer equipment, word processors, and other data processing equipment, are subject to damage or disruption due to static charges. It is also intended to be used on conductive floors in hospital operating rooms. / Tepromark International, Inc., Woodmere, NY.

451 ALL-WEATHER MAT / Nomad entryway matting material, formed of resilient vinyl loops, actually wicks moisture from the shoe, and keeps dirt and wet from being re-tracked through a building. New matting configuration has also improved dirt holding capability. / 3M, St. Paul, Minn.

452 ENTRANCE MATS / Natural-fiber cocoa mats effectively clean shoe soles and protect carpeting and flooring in heavy-traffic lobbies and entrance areas. Vina-Cor mats clean and dry quickly, do not generate static electricity, and meet Federal specifications for surface flammability. / USCOA International Corp., St. George, S.C. GB, F

453 FURNISHING ACCESSORIES / FURNISHING / Designed by Eileen Gray in 1927, the “Castellar Mirror” has a fold-out section for two-way viewing. The 1/4-in. thick beveled mirror glass is framed in chrome-plated steel with an aluminum backing, and measures 22 1/2- by 25-in. Unit list price $350. / Beylerian Marketing Group, New York City.

454 FOLDING SCREENS / Made with four 14-by 74-in. panels joined with “invisible” hinges, Customwood’s folding screens are available in six different hardwoods or clear acrylic. “Carthage” design is shown here: dozens of different grille patterns are offered. / Customwood Mfg. Co., Albuquerque, N.M.

455 MODULAR WALL UNIT / A choice of wardrobe options allows user flexibility, particularly in the bedroom or dressing room for which this unit was designed. Deep and shallow drawers are provided along with pull-out shelves, wire baskets and TV pull-out swivel. / Cy Mann Designs Ltd., New York, N.Y.

456 ADAPTABLE FURNITURE / The format stackable chair, together with a matching table, can be used for either conference rooms and offices or for residential dining. The chair is constructed of bent beechwood or oak and comes in both arm and armless models. The table can be square, rectangular or semi-circular. / Cado-Royal System Inc., South Plainfield, N.J.
457 FACTORY WALL SYSTEM / Designed in two models to improve productivity, the system can be used for compact work stations in such fields as electronic components. Work surfaces and cabinets may be attached to the panels which come in a variety of sizes for flexible layouts. / Westinghouse Electric Corporation, Pittsburgh.

458 OFFICE FURNITURE / A new line of furniture, the RH System has been designed to allow adjustment of the height and tilt of video display terminals, and is complemented by matching work tables and desks. The system allows multiple keyboard locations for each screen, and offers design appropriate to the technological function. / Data Furniture Inc., Minneapolis, Minn.

459 DATA MANAGEMENT / The "T.M.S."—Information Management Station—is now being marketed following a year-long series of invasive testing. The furniture components create large or small work stations, at angles, in clusters, rows, corners, aisles, etc. Almond-toned laminate tops are set on Chroma-plated tubular steel. "T" legs. / Howe Furniture Corp., New York City.

460 DATA PROCESSING / Several freestanding and partition-mounted work stations, designed for the requirements of data processing equipment and workers, are offered in the "Series 1000 Office." Finish options include laminates or natural wood veneers. / Harmon, Div. of Coastcraft, Tacoma, Wash.

461 NESTING TABLES / "Matrix" tables are now offered in hardwood veneer surfaces of oak or walnut. Frames are standard in bright chrome with powder coated finishes optional. / Krueger, Green Bay, Wisc.

462 RED OAK TABLE / Available in conference, dining and coffee table versions, this table, from Agati Designs, features bentwood legs and a top of red oak. Legs are removable for shipping. / Agati Designs Inc., Chicago.

463 WORKSTATION / This "Post-Modern" workstation offers fluted posts and silver accents "to echo the current nostalgic drift in architecture." / Harvey Prober, Inc., Fall River, Mass.

464 DESK AND TABLE / The Prow Edge Desk is available in executive and secretarial versions. The Prow Edge Tables rest on solid oak-edged bases and are available in circular sizes with parquet tops, and rectangular sizes also. / Harvey Prober, Fall River, Mass.

465 TABLE / The Sunburst Table Collection offers hardwood and veneer pattern in top sizes ranging from 24- in.-diameter through the 24-ft conference length. / Tusby Furniture Corporation, Ch苍field, Minn.

466 TABLE / The 316-317 Series Tables, in chrome and oak, have full radius (bullnose) edges for greater resistance to concussion and superior chrome adherence. / Tusby Furniture Corporation, Chatsfield, Minn.

467 TRAVERTINE TABLES / From the Draenert Studio, dining, cocktail and occasional tables with simple, flowing lines are made of open- or closed-pore travertine and Red Persian travertine, as well as various marbles. / Turner Ltd., New York City.

468 LIMITED EDITIONS / Tables, chairs and lighting, designed and crafted by Alan Friedman, are available in limited editions of 100 pieces. These signed tables have tops of Honduran lace-wood veneer, legs are solid hand-carved mahogany. / Turner Ltd., New York City.
469 OCCASIONAL TABLES / Leon Rosen’s “Circo Tables” are an updated art deco look in polished tubular stainless steel and glass. Tables are suitable for both contract and residential applications. / The Pace Collection, Inc., Long Island City, N.Y.


471 GEOMETRIC TABLE / Lella and Massimo Vignelli’s “Euclid” coffee table consists of a ¼-in.-thick clear glass top resting on four “legs”: a Carrara marble pyramid, a travertine cylinder, a black marble cube, and a variegated marble sphere. / ICF, Inc., New York City.

472 UTILITY FILE / Designed by Paul Mayen to work with the “Katonah” series of desks, credenzas and storage units, this Utility/ File Cabinet has three utility drawers and three file drawers for either letter- or legal-sized filing. Drawer fronts feature integral pulls. Finish options include 13 lacquer colors, four woods and four burrs. / Intrex Inc., New York City.

473 CONSOLE / Shown here in a matched burr, 72-in.-long, “Katonah” console has no visible hardware; drawer fronts have contour ends to serve as hand grips. Designed by Paul Mayen. “Katonah” furniture is offered in 13 glossy lacquer colors, four woods and four burrs. / Intrex Inc., New York City.

474 MICHAEL GRAVES’ TABLE / Graves’ newest and most striking table is available in lacquered or wood versions. The legs are a “reference to architectural patterns by their similarity to fluted columns,” as Graves explains; the top has square fragments of bird’s-eye maple, separated by lines of ebony with mother-of-pearl tesserae at corner intersections. / Sunar, Norwalk, Conn.

475 COLUMN TABLE / Designer John Saladino has set ¼-in.-thick clear glass squares on top of solid ash sectioned column legs for this Dunbar table. Separate 24-in.-squares can be placed together, as shown, forming a “complete” column at the center. Table is 19½-in. high. / Dunbar, Berne, Ind.

476 GEOMETRIC DESK / An angled construction of brushed steel and lacquer, J. Wade Beam’s “Executive Decision” desk has a leather writing surface. The credenza, with door storage or file drawers, has end compartments with shelves of solar bronze glass. / Dunbar, Berne, Ind.

477 MARBLE TOP / Oval desk top of verde green marble is set on a double plinth base in steel, bronze or leather finish. A Bert England design, the desk has a coordinated accessory drop-in, containing a telephone, clock, and other office fittings. / Dunbar, Berne, Ind.

478 TABLE DESK / The “Taltville Collection” of traditionally-inspired furniture includes tables desks with mahogany or leather insert tops. This corner detail shows the red birch molding and figured African mahogany banding, framing a ribbon mahogany top, in a satin lustre finish. Two center drawers are standard. / Helikon Furniture Co., Inc., Taltville, Conn.

479 WALL SYSTEMS / The Privacy Panel System shown provides different degrees of privacy with 4 panel heights, including floor-to-ceiling which can be used for fully enclosed offices. Finishes are designed to match the manufacturer’s line of office furniture. / The E.F. Hauserman Company, Cleveland, Ohio.

480 ZURICH TABLES / The Zurich table is a 51-in.-dia., 28½-in.-h round dining table. Base and top edges are leather covered wood in choice of Swiss leather or suede, Swiss Nubuck brushed leather, Swiss select leather and Nature leather. Top material selections include Stendig marble and mirrored bronze glass. / Stendig Inc. New York, N.Y.
481 CONFERENCE TABLE / Pedestal table has a top of 1/2-in.-thick clear glass held in place by a metal disc placed over the glass and mechanically attached to inner hardware. Table stands 29-in. high, and is offered in 42-, 48-, 54- and 60-in. diameters. / Architectural Supplements, Inc., New York City.

482 FURNITURE SYSTEM / Wood-framed see-through panels and radius edge drawers have been added to the Conwed System 2. All furniture and panels feature matching wood grain in a choice of three finishes. Group 600 fabric-wrapped acoustical panels are also available with either 60 or 95 NRC. / Conwed Corp., St. Paul, Minn.

483 CONWED DESKS / Conwed's new Series 2100 raised pedestal desk merges radius edges with rectilinear styling. The wood desk also has complete drawer configurations and return options. A companion desk, the Series 2200, has full-to-the-floor pedestals. Matching credenzas are available for both lines. / Conwed Corp., St. Paul, Minn.

484 ALANDA SOFAS / The ALANDA Lounge series has flexible, adjustable back and arm cushions. The back cushion, when raised, becomes a headrest. The series consists of an armchair, a two-seat sofa and a long sofa, with upholstery in B&B America fabrics, leathers, COM or COL. The structural steel frame is embedded in molded urethane foam. B&B America / New York, N.Y.

485 LOUNGE TABLE / As part of the Petit Collection, this low round table can be topped with a wood veneer of maple, mahogany or oak, or with marble—all tables have special edge detailing. / Sunar, Norwalk, Conn.

486 OFFICE FURNITURE / A new part of the Ultronic 9000 line, these adjustable stands for video display terminals have gears that regulate height and angle. The advantages include comfort and the elimination of glare, which reduces visibility and decreases fatigue. The surface can also be rotated. / Steelcase, Grand Rapids, MI.

487 MAGNUS MODULAR SOFA / The Magnus modular lounge series comes in two basic units, corner/end element and an armless element. The steel armature frame is embedded in cold molded urethane, and upholstery is available in a wide range of materials. Elements can be ordered separately. / Stendig Inc., New York, N.Y.

488 EDP STATIONS / New 120- and 90-deg corner electronic support work surfaces shown here feature recessed keyboard pads. Cable access notches direct wiring down to power receptacles. Also available are 180-deg panel-mounted EDP surfaces, CRT carousels, and printer tables. / Haworth, Inc., Holland, Mich.

489 OFFICE INTERIORS / Haworth's UniGroup office system incorporates Tricircuit ERA-1 and standard panels, Triambient lighting, and an almost infinite variety of componentry to suit any office function. An expanded range of color and finish choices is offered. / Haworth, Inc., Holland, Mich.

490 WORK SYSTEM / Designed by Swiss architect Fritz Haller, the "Haller" office is easily changed to accommodate new computer technology and data systems. A ball-and-screw connector links chrome tubes to create multi-purpose structures into which shelves, panel sections, drawers, bins, etc., can be fitted. / Haller Systems Inc., Irvine, Calif.

491 OAK FRAME TABLES / "Series 355" tables have oak legs that curve gently into the top apron, creating the impression of one continuous flow of wood. Tables come in heights and sizes to serve in conference, dining, lounge and desk applications. Tops now available include wood, leather, glass and granite. / CI Designs, Medford, Mass.

492 WORKSTATIONS / New, full suspension pedestals on "Series 500" workstations permit access to all parts of the two or three drawers provided. Desk tops and pedestal fronts have beveled edges; units are available in three sizes and two heights. / TAB Products Co., Palo Alto, Calif.
493 FLEXIBLE DESK / Described as a “personalized work tool,” The Burdick Group offers individualized solutions to various office task and equipment problems. The L-shaped setup shown here has a 7-ft aluminum beam supporting an assemblage of work and machine surfaces. / Herman Miller, Inc., Zeeland, Mich.

494 PANEL DOOR / To provide greater privacy in “Series 9000” work station and conference applications, this 65” or 75”-high door can be installed in a straight run of panels, or at a corner using a corner post. Hinge is reversible, and will swing the door completely open or closed. / Steelcase, Grand Rapids, Mich.

495 ELECTRONIC OFFICE / An extension of the “9000” line, Ultronic components accommodate all makes and types of electronic office machines. Products include split-level work surfaces, pullout shelves for keyboards, and freestanding slotted-top printer tables. The three-worker configuration shown here incorporates a central machine carousel that rotates 355 degrees. / Steelcase, Grand Rapids, Mich.

496 OFFICE SYSTEM / New oak edge-trim for American Seating’s office panel system works with wood veneer desks and components to provide an all-wood look, while maintaining the practical advantages of non-wood, fabric-covered panels, flipper doors and Add Infinitum storage units. / American Seating, Grand Rapids, Mich.

497 OPEN PLAN / Gunlocke’s Panel System is constructed of rift cut oak veneers, highlighted by narrow reveals and slightly-radial edges. Offered in four heights and four widths, straight or curved, panels may be veneer and/or acoustical on either side. The system provides more than 100 panel, work surface, cabinet and color options. / The Gunlocke Co., Wayland, N.Y.

498 BRITISH DESIGN / A range of furniture and accessories for indoor and outdoor use, the “Pyper Collection” is made in England of glass-reinforced fiber. The table shown here has a removable center planter; the stools have a carrying slot that also serves to drain rain water from the concave seat section. / Fitch & Co., London, U.K.

499 DESK SYSTEM / The “Carbodesk” line includes executive desks, returns, typing table, suspended pedestals and organizers, furnished in teak, walnut or oak. The five-drawer stationery organizer may be hung underneath the return. / Cado Royal System, Inc., South Plainfield, N.J.

500 BASIC DESK / Designed by the architectural firm of Cowathiey Siegel & Associates, desk and credenza have pedestals that rest directly on the floor to provide maximum storage. The work surface is cantilevered over the pedestal forming a “T” with the privacy panel. Storage units, top and panel may be ordered in four mahogany finishes, as well as black, gray and dark brown laminate. / Knoll International, Inc., New York, N.Y.

501 VERSATILE OFFICE / Now available in stock in this country, Mario Bellini’s “Marcatre” office furniture is used to form complete but changeable workspace units. Industrially-produced desks, storage pieces and accessories are finished in Roman Oak veneers or combination oak/gray, oak/white or oak/beige laminates. / Atelier International, Ltd., New York, N.Y.

502 MAHOGANY DESK / Based on 18th-century Georgian furniture, the “Exeter Suite” for the office has inlaid olive ash burl tops, side and end panels with detailed mahogany molding. The “Exeter” and two other traditional desk lines are offered with executive and secretarial desk models, credenzas, and modular bookcases. / R-Way Furniture Co., Sheboygan, Wis. *

503 CONFERENCE TABLE / Sized for small meetings, this mahogany table will seat eight people. It is supported by two pedestals, each with three Queen Anne-style legs. / Kittinger Co., Buffalo, N.Y.

504 OPEN PLAN DESKS / Dimensionally compatible with this maker’s “Open Plan System,” “O.P.S.” desks feature radius-ended panel ends and work surfaces and molded drawer fronts. Several width and depth configurations are offered; work surface heights can be adjusted from 26” to 29½" in ½-in. increments. / CF Business Equipment Inc., Youngstown, Ohio.
RUGS

506 FLOOR CANVAS / A custom program of hand-painted canvas art for the floor, artist Ann Sams uses colorfast paints on a heavy white cotton canvas with a strong latex backing. Designers may specify colors, and any size up to 12- by 15-ft. / Form III, North Vernon, Inc.

507 AREA RUG / The "Katia" collection of small rugs for the kitchen, bath and hall includes "Soccer Stripe," a 24- by 40-in. oblong with narrow stripes of red, green, navy or yellow alternating with white. / Regal Rugs, Inc., North Vernon, Inc.

SEATING

509 ELEONORA CHAIR / The Eleonora semi-lounge chair provides seating for conversational area in home or business. The fully upholstered steel frame is cushioned with molded urethane foam. The chair has casters and may be covered with Stendig leathers, expanded vinyl, fabric or COM. / Stendig Inc., New York, N.Y.

510 RHODES CHAIR / 139 Rhodes side chair is classic Bauhaus. The continuous tubular steel frame is polished chrome, with leather seat and back. Leather panels have grommeted holes and tied laces in a selection of four colors: natural, palomino, dark brown or black. / Stendig Inc., New York, N.Y.

511 CANTILEVERED OAK / Red oak veneer laminated into two curves forms the seat, back supports and arms of Agati's 23-in.-wide cantilevered contract chair. Oak strips separate the curves to create the reveal. Chair is available in an armless version, and six colors of wood blend upholstery. / Agati Designs, Inc., Chicago, Ill.

512 ARTICULATED CHAIR / Manufactured in several office and contract models, "The Dorsal Chair" has an articulated backrest that automatically responds to any seating requirement. "Operational Pedestal" chairs tilt forward for work-intensive situations. / Krueger, Green Bay, Wisc.

513 STACK CHAIRS / The "Matrix" high-density stack chair is now available with hardwood veneer seats and backs as well as the previously offered polypropylene version. Designed by Tom Tolleson, chairs have bright chrome or powder coated frames. / Krueger, Green Bay, Wisc.

514 LEATHER CHAIRS / Tito Agnoli's "Saddler's Chairs" are completely covered in stitched saddle leather, available in black, dark brown, burnt sienna, light brown, terra cotta or natural. Frame of the 33½-in.-high chair is steel. / ICF, Inc., New York City.

515 SECTIOAL SEATING / "Celesta" components are constructed on a steel-framed, fire-retardant foam padded base. Cushions are down-filled, reversible, and covered with Velcro-fastened parachute cloth upholstery. Armless, corner, and chaise lounge units are shown here. / ICF, Inc., New York, N.Y.

516 STACKING CHAIR / The "Wihahn Binar" chair has a textured polypropylene double-wall shell that surrounds a cushion of air for comfortable seating. Two chromed steel tubes support the seat. "Binar" chairs stack seven-high; a carrying cart is available. / Vecta Contract, Grand Prairie, Texas.
517 OPERATIONAL CHAIR / Designed for the operational/EDP worker, the WorkSeat is said to prevent fatigue by providing complete support and comfort throughout the day. A mechanical Auto Lift device adjusts seat height; short arm rests allow the chair to be pulled up close to the desk. / Cramer Inc., Kansas City, Kan.  *

518 FOLDING CHAIR / The solid ash frame and seat back of Michael Kirkpatrick's folding chair are joined by a cam hinge: when the seat is lowered, the back automatically locks in place. Seat options include natural cane, as shown, or home spun wool in a number of colors. / CI Designs, Medford, Mass.

519 PUBLIC AREA SEATING / Consisting of one-, two-, and three-seat fully-upholstered sofas, the "Wilkhahn 84" series can also be joined with wedge or square connecting table tops. End panels are lacquered "Fingly" in 14 colors. / Vecta Contract, Grand Prairie, Texas.

520 SYNCHRO-TILT CHAIR / German-designed "FS" office chairs are built with two pivot arms attached at the lumbar portion of the backrest, and connected to an axle at the chair's center of gravity. There are 11 models in three groups: high back chairs, manager chairs, and operator chairs. Upholstery covers are zipper and field replaceable. / Vecta Contract, Inc., Grand Prairie, Texas.

521 ERGONOMIC / All chairs in the Vitra line maintain a visual consistency, so facility managers can tailor the right seating solution to each individual, work situation and budget. These "30, 40 and 50 Series" chairs feature a cooperative synchro-tilt mechanism for proper support. / Herman Miller, Inc., Zeeland, Mich.

522 INTRASYSTEM SEATING / The System 150 chair and companion System 140 chair are designed for healthful body support and comfort. The 140 chair, with glides, is well suited for conference situations. Both are compatible with the entire Haworth office system. / Haworth, Inc., Holland, Mich.

523 MODULAR SEATING / Consisting of four components designed by Brian Kane, the "SBA" group provides a small-scaled solution to reception area seating requirements. Form-fitting upholstery has a double-needle seaming detail. / Metropolitan Furniture Corp., South San Francisco, Calif.

524 CAMELBACK SOFA / A 90-in.-long roll-arm sofa based on a Chippendale motif, fully-upholstered piece is part of the "Bel Air" contract line. Sofa is also available as a sleeper. / Lee/Jofa, New York City.

525 SWIVEL ARM CHAIR / A high-back version of Brian Kane's "SBA-SBS" Auburn chair: this executive chair is set on a five-prong base of polished aluminum, oil rubbed bronze, or any of 18 different painted finishes. / Metropolitan Furniture Corp., South San Francisco, Calif.

526 ARMLESS CHAIR / Constructed on a slightly larger scale for seating comfort, this "Bel Air" upholstered chair has a 19"-in-seat height, and a depth of 36-in. Here, the frame, seat and back cushions are fully covered in "Beaulieu Weave" 100 per cent cotton fabric. / Lee/Jofa, New York, N.Y.

527 ADJUSTABLE CHAIR / A management version of "The Comfort Chair" features arm rests that can be raised or lowered to fit the physical stature of the user, and a turn knob that allows the seating width to be expanded or contracted. The "dish" shaped plastic shell seat has a waterfall front; seat can be pneumatically raised or lowered. / Facit, Inc., Greenwich, Conn.

528 SIDE CHAIR / Brian Kane has used an exposed oak frame and simple upholstery details for the "Alta Mira" contract chair. Edges of arm panels and seat back are self-welted; chair is available in many fabric choices or leathers. / Metropolitan Furniture Corp., South San Francisco, Calif.
529 STEAMBENT OAK / The “Tempus” office chair has base and arms of steambent solid white oak. Comfort and support features are fully adjustable by pneumatic control; the angle between the seat and back increases or decreases as the user tilts in the seat. Chairs are guaranteed against defects for five years. / The Gunlocke Co., Wayland, N.Y.

530 LOUNGE CHAIR / A restyled version of the “438” chair, model “610 Solano” has softer, rounder upholstery details. Proportioned for lounge or side chair applications, seating is covered in stretch fabric. Cantilevered steel frame is available in polished chrome, oil-rubbed bronze, or 18 painted finishes. / Metropolitan Furniture Corp., South San Francisco, Calif.

531 ADJUSTABLE HEIGHT / The “S-197 R/5” operator’s chair has a compressed air device that permits fine height adjustments while seated. Fore/aft tilt and lumber support are fully adjustable; cast aluminum base has double gravity rollers. Available in several versions, prices for the German-made chairs start at $225. / Chartrette, Woburn, Mass.

532 GALAHAD CHAIR AND OTTO- MAN / The Galahad swivel lounge chair and ottoman are cushioned with foam and dacron. A down-filled headrest and locking tilt are also provided. Both chair and ottoman are fully upholstered in a variety of deSede leathers. The frame is of molded plywood, the base is metal / Stendig Inc., New York, N.Y.

533 CLASSROOM CHAIR / A stacking chair for schools, meeting rooms, etc. “Model 7100” has a one-piece, extra-wide shell with support flange around the edge for strength. Seat pads are foam upholstered in nylon Scotchgard. Tubular steel legs have swivel glides. / Virco Mfg. Corp., Torrance, Calif.

534 ANTHROPOMETRIC LINE / Three new models have been added to the ConCorAio office seating line; an operator chair and stool, and a fixed side chair. Posture backs have a rubber-packed spring, with back tension adjusted by a T-handle underneath the chair. All three chairs are adjustable with or without arms. / Steelcase, Grand Rapids, Mich.

535 SIDE CHAIR / Robert De Fuccio’s “Stack Back” chair has a back riser of solid elm sections with a butcher block effect; the frame is steambent elm. Seat is available upholstered or with a cane seat. / Thonet Industries, Inc., York, Pa.

536 CANTILEVER CHAIR / Formed of oval metal tubes with the seat cantilevered over the base. Warren Snoddgrass’s “Interlock” chair stacks six high. The one-piece elastic fabric seat and back support slips over the interior perimeter frame. / Thonet Industries, Inc., York, Pa.

537 SECRETARIAL CHAIR / Part of the “Corporate Collection” from Adden, the “CS.30” secretarial chair has a solid oak frame with rounded corners. The seat back has a vertical control and tilt mechanism; height adjustment is either manual or by an optional gas cylinder. / Adden Furniture Inc.

538 WOOD FRAMED CHAIR / The “Triangle Chair” series by Robert De Fuccio features an oak or walnut frame that tapers in width towards the base to maintain a light scale. Sled-base versions may be ganged using an optional connecting device. / Stow/Davis Furniture Co., Grand Rapids, Mich.

539 DINING CHAIR / An edition of the Continuum Series scaled expressly for dining use, leather-upholstered chair is offered in three new finishes: cherry, ebony and translucent white. Chairs can be stacked for convenient storage. / Stow/Davis Furniture Co., Grand Rapids, Mich.

540 ANTI-STATIC CHAIR / The Compu-Chair helps eliminate electrostatic discharge, providing comfort and convenience for workers in static sensitive environments such as computer rooms, CRT terminal areas, etc. The anti-static properties are guaranteed for the useful life of the chair, regardless of wear or cleaning. / United Technical Products Inc., Westwood, Mass.
541 SEATING / Designed for offices by the Dreipunkt A.c team, five different models of the Gamma series include desk and side chairs. Desk chairs have cast aluminum bases with telescopic pedestals and adjustable tension. The manufacturers are particularly proud of the techniques used for leather upholstery. / Davis Furniture Industries Incorporated, High Point, N.C.

542 LOUNGE CHAIR / Designed by Toshiyuki Kita and manufactured by Cassina of Italy, the versatile "Wink" is a chair and a chaise. Soft edges surround the user: two-part headrest reclines independently. Chair base rotates forward into a footrest, creating a chaise lounge. Fabric, vinyl and leather upholstery may be selected; prices start at $1700. / Atelier International, Ltd., New York, N.Y.

543 EXECUTIVE SWIVEL / One of a line of fully upholstered, soft-look office seating, the "840" swivel chair is 47-in. high. Upholstery options include fabric, vinyls, or top grain leathers. / Myrtle Desk Co., High Point, N.C.

544 CONTRACT SEATING / The "Dimension" chair has upholstered elements 23-in. wide bolted to frames made from mirror chrome- or antique bronze-plated rectangular steel tube. Variations include leg, sled or swivel base (shown), and low- and high-back. / Brayton International Collection, High Point, N.C.

545 SWIVEL-TILT CHAIR / Upholstered chairs are 24-in-wide and 25-in. deep, compactly scaled for the open office. The three-piece seating and backrest pad is field replaceable. Arms are brown self-skin urethane foam. / Vecta Contract, Inc., Grand Prairie, Texas.

546 LOUNGE SERIES / The Alanda lounge series, designed by Paolo Piva, offers clean minimal lines and total comfort. Equipped with an internal mechanism, the back and arm cushions are individually adjustable. / B&B America, a division of Stendig International, Inc., New York, N.Y.

547 SEATING / The new Task Chair features a flexible back achieved with a concealed spring mechanism buried within the chair. Molded in one piece of urethane foam over an integrally sprung steel frame, the Task Chair is available with upholstered foam arms or armsless. / Harvey Propper, Fall River, Mass.

548 CONTRACT CHAIR / A multipurpose chair said to be comfortable, light and strong, Claud Bunyard's "CB1010" chair has a frame of laminated hardwood with an ash face veneer. Seating shell is plywood, upholstered in urethane foam covered with "Iuson" wool or COM. / Claud Bunyard Design, Inc., Winchendon, Mass.

549 PLASTIC SHELL / The "Pluralis" stack, office and tandem seating system is based on a seat and back shell of Reglarflex reinforced polypropylene, available in four bright colors. Reglarflex meets ASTM D-635-75 flammability requirements. / Artemide, New York, N.Y.

550 LEATHER SOFA / Produced by Mariani of Italy, the "Uno-Due" seating group features a consistent outward curve of the back and sides. Right-, left- and armless units can be assembled in various configurations. Upholstery options include black leather, suede or fabric. / The Pace Collection, Inc., Long Island City, N.Y.

551 OFFICE SEATING / Part of the "Olveitti-Synthesis" line, the Edys (Ergo Dynamic Seating) chair is secretarial, individual, collective or stackable. This design has 16 variations. / The Pace Collection, Inc., Long Island City, N.Y.

552 STACKING ARMCHAIR / The "Spaghetti" chair uses PVC cords wound around a steel tubing frame to form seat, back and armrests. Frame may be finished in chrome or epoxy. "Spaghetti" stacking chair is designed by G. Belotti. / ICF, Inc., New York, N.Y.
553 SEATING / The manufacturer cites comfort in these models, which include an upholstered chair and a two-seat couch. "Ergo" series is designed by Damir Perisic. / Brayton International Collection, High Point, N.C.

554 SEATING / Designed for institutional and commercial use, the Interlude series of couches and chairs are offered in three styles—lounge chair, two- and three-seat sofas, all with white oak end supports. The manufacturer cites its economical cost. / The Gunlocke Company, Wayland, N.Y.

555 PULL-UP CHAIR / An "affordable" chair, Richard Schultz' side chair is constructed of steel tubing 7/8-in. in diameter, with larger-diameter tubular armrests. Fabric upholstery can be easily replaced in the field. / Knoll International Inc., New York.

556 CAFETERIA UNIT / For restaurants, schools and recreational facilities, the "Discipline" group has seating units of molded plywood finished in natural, white, or extra-thick puffy foam. Table may be laminated, as shown, or solid maple butcher block. Frames and floor mounting plates come in 17 Kinko's 2 colors. / Kinetics Furniture, Downsview, Ont.

557 GERMAN DESIGN / The "Dra- bert" office chair is equipped with a flexing, pneumatically controlled back mechanism. The back inclination may be locked into position, or left to tilt freely; all chairs swivel. Arms are self-skinned polyurethane on steel, finished to match seat and back. Prices start at $520. / Sunar, Norwalk, Conn.

558 OFFICE SEATING / The "Helena" chair, designed by Niels Diffrient, is based on tested human factors data. A sliding lever moves the back support strap laterally to provide nine seat depth adjustments. Available in executive, guest, sledbase and work-station versions, chair is cushioned with high-resiliency, fire retardant foam. Prices start at $310. / Sunar, Norwalk, Conn.

559 WIRE BASE / Verner Panton's "Pantonova Series" furniture is constructed with an air, steel wire base. Seating units can be connected with clips to form convex, concave, or straight-line arrangements. Upholstery is Mira-Stretch stretch fabric, available in 50 colors. Glass-top round tables are also offered. / Cado Royal System Inc., South Plainfield, N.J.

560 FIRE RETARDANT / New colors—white, camel, navy and bone—and a fire-retardant commercial material are available in the Window Quilt line of thermal window treatments. Said to have the insulating value of three layers of storm glazing, the quilted fabric passed NFPA test 701. / Appropriate Technology Corp., Brattleboro, Vt.

561 THERMAL CASEMENT / Offering insulating values of between R-9 and R-12, the Insulating Curtain Wall can greatly reduce heat gain or loss through large glazed areas. Span and drop of up to 20 ft can be covered with a single curtain case and track installation. Curtain itself has four layers of reflective fabric. / Thermal Technology Corp. of Aspen, Inc., Bloomfield, Colo.

562 VERTICAL BLINDS / Fler-A-Vane verticals allow the designer to match window treatment to the rest of the room: grooves on each long edge of the pvc strips hold fabric, wallpaper, etc., which may be changed as desired. Outer surface has a heat-reflecting matte finish. / Hunter Douglass, Inc., Totowa, N.J.

563 ROMAN SHADES / Woven wood Roman window treatments are available in a slimmer version, the "Romanette" shade. The finished wood headrail is only 1/4-in. thick and does not need to be hidden by a valance, reducing the bulkiness of the surface or recessed installation. / Kirsch Co., Sturgis, Mich.

564 PLEATED SHADES / Accordion-pleated shades made of Versol polyester fabric have a reflective aluminum backing. While the shades are sheer and let in light, they reflect 60 per cent of summer sun to reduce heat load on interiors. In winter, lowered shades redirect heated air back into the room. / Kirsch Co. Sturgis, Mich.
The first name in full height movable walls brings you the first full height Privacy Panel™ System.
12: FURNISHINGS

OPEN OFFICE SYSTEM / Flexibility, productivity and economics: these three factors, according to a 24-page booklet, are the advantages of this open office system. The publication describes in detail this manufacturer's furniture system, with four-color photographs displaying many possible configurations. • Westinghouse Electric Corp., Pittsburgh, Pa.

circle 3233 on inquiry card

MATING FRAMES / A line of matting materials and aluminum frames are detailed in a 12-page publication. Featured are mattings made of rubber, vinyl and nylon for institutional and commercial applications. The characteristics of each are described, and available colors are illustrated. • R.C. Musson Rubber Co., Akron, Ohio.

circle 3234 on inquiry card

FURNITURE / Three lines of mahogany office furniture, with an elegant 18th-century look, are featured in a four-page brochure. The collection offers features such as leather desktops, molding and burl tops and end panels. Other units in the collection include modular bookcase cabinet and credenza. • R-Way, Sheboyan, Wis.

circle 3235 on inquiry card

OFFICE FURNITURE / The "Body Chair," contoured to provide support to back and legs, is featured in a 20-page brochure. Advantages of comfort, construction and styling are pointed out. Design, caster and base finish options are detailed. • GF Business Equipment, Youngstown, Ohio.

circle 3236 on inquiry card

OFFICE FURNITURE / "The Corporate Collection," a line of contemporary-design solid oak office furniture, is presented in a 4-color brochure. Products shown include "The Executive" and "The Management Series." • Adden Furniture, Lowell, Mass.

circle 3237 on inquiry card

STAINED GLASS / A 4-page brochure introduces a line of contemporary stained glass panels. Color photographs show several of the limited edition pieces available. The manufacturer of these leadless panels can produce pieces for ceilings, window inserts, screens and furniture. • Creative Glassworks International, Fairfield, Iowa.

circle 3238 on inquiry card

STAINED GLASS / Custom-made creations in stained glass are the specialty of this manufacturer, and a 6-page foldout displays some of the windows installed in various churches around the country. The text defines the manufacturer's contention that a stained glass panel must be a three-fold collaboration between architect, client and glassman. • Rambusch, New York, N.Y.

circle 3243 on inquiry card

OFFICE FURNITURE / The "GF Body Chair," designed for maximum anatomical support, is featured in a 24-page brochure that catalogs a complete line of office furniture and work surfaces. Chair heights, arm and base finish options, and choice of upholstery are all illustrated in four-color photographs. • GF Business Equipment, Inc., Youngstown, Ohio.

circle 3244 on inquiry card

EXECUTIVE FURNITURE / Sleek, contemporary oak desks are showcased in a four-page brochure. The Series 2000/2200 radius edge desks feature compatible design with the manufacturer's System 2 open office furnishings. Construction details and the choice of finishes are shown in four-color photographs. • Conwed Corp., St. Paul Minn.

circle 3245 on inquiry card

OFFICE ENVIRONMENTS / A 12-page brochure describes how this manufacturer's office furniture approaches worker comfort and efficiency. System components, such as acoustical ceiling panels, lighting systems, surface treatments, partitions, furniture/storage units, are shown installed in various configurations. • Conwed Corp., St. Paul Minn.

circle 3246 on inquiry card

OPEN-PLAN PARTITIONS / Ease of workspace planning and system installation are emphasized in an eight-page brochure on this manufacturer's open-plan office system. Components illustrated with color photographs include straight and curved work surfaces and countertops, steel shelving and panel-mount furniture. • Panel Concepts, Santa Ana, Calif.

circle 3247 on inquiry card

COMPUTER FILING SYSTEM / A 64-page catalog describes TAB's complete line of computer filing systems. The easy-to-use publication is organized by product type and application. It contains information on tape and disk pack storage systems, print-out and floppy disk storage systems, workstations for general office and computer room applications. • TAB Products Co., Palo Alto, Calif.
The imagination, colors and quality you expect from Levolor Ceiling Systems.
Create your own energy-efficient environment with an Owens-Corning Fiberglas Fabric Structure.

This is the beautiful new Bullock's in San Jose, California. The world's first department store with a permanent fabric roof—made of rugged Owens-Corning Fiberglas yarn coated with Teflon.

The fabric roof gave the architects the freedom to create a unique environment—open, airy. A lot like a park.

Since the roof is translucent, it lets in soft daylight, thus cutting the need for daytime lighting and the use of energy. And Bullock's is projecting energy savings of $18,000 a year. (They're now planning a second store with a larger Fiberglas fabric roof.)

More savings.

An Owens-Corning Fiberglas fabric roof structure can cost less to build than a conventional roof. And generally, the longer the span, the greater the savings. Plus the fabric roof goes up in a fraction of the time, which can result in even more savings.

The Pontiac Silverdome, home of the Detroit Lions, couldn't have been built with a conventional roof without going over budget. Today, the Silverdome has a 10-acre Fiberglas fabric roof that cost a third the price of a steel-vault one.

Seven years of success stories.

Owens-Corning has been involved in every Fiberglas fabric structure project in the world. We've found there's practically no limit to what you can do with Fiberglas fabric structures.

You can use them to create exciting new environments for schools, malls, zoos, libraries, restaurants, hospitals, office buildings, and even airport terminals. (We're now working on the Hajj Terminal in Saudi Arabia—larger than 80 football fields.)

One-stop shopping.

No one is better equipped to help you with your project than Owens-Corning Fiberglas. Call on us for assistance during preliminary design as well as for budget estimating. Count on us for materials, fabrication and construction. In short, depend on us for everything from A to Z. Don't hesitate to contact us at the earliest stages of your project.

For a free brochure, just send us this coupon.

Free brochure
Write to A.R.C. Meeks, Owens-Corning Fiberglas Corporation, Fiberglas Tower, Toledo, Ohio 43699

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CONVEYORS & CHUTES

622 RETRIEVAL SYSTEM / The Lektriever Series 80, for storage and retrieval of industrial materials, has specifically designed carrier shelves made of heavy-gauge steel and are standard in each available height. Carriers are delivered automatically to work areas by digital touch controls. / Kardex Systems Inc., Marietta, Ohio.

623 INCLINED CONVEYOR / Mounted on inclined beams, the Hy-lift reciprocating conveyor moves up to three tons of freight only between two or more levels, and is not subject to elevator codes. Hy-lift can be easily loaded by fork lift, and is said to be a cost-effective alternative to elevators and belt conveyors. / Pillow Industries Inc., Milwaukee, Wisc.

624 TRACK SYSTEM / The Mosler "Materials Distribution System" is a low-energy system of 20-lb capacity cars which travel, on demand, vertically and horizontally over a network of extruded aluminum track. / The Mosler Safe Co., Hamilton, Ohio.

ELEVATORS

625 TALKING ELEVATOR / Newly introduced, the Elevonic 401 micro-computer-based elevator-control system not only can be programmed to say "good morning," but features a digital information center that displays time, weather, stock market and news reports or advertisements. / Otis Elevator Co., Farmington, Conn.

LIFTS

626 LIFT TRUCKS / The new RT-501 and RT-701 Rough Terrain Articulating Lift trucks both offer hydrostatic drive, articulated hydraulic steering and easy handling. The RT-501 features a 6,000 lb lift capacity while the larger RT-701 has an 8,000 lb capacity. Both designs are diesel powered. / Namco, Sioux City, Iowa.

627 PALLET TRUCK / Eight basic models in sizes 32- to 48-in. long by 20½- and 27-in. wide. All models feature a choice of foot or quick release hand control, and each has 3-position operation for maximum safety and convenience. / Blue Giant Equipment Corp., Tonawanda, N.Y.

628 SCISSORS LIFT / Double scissor lift for raising and lowering loads in tight spaces. Lift is equipped with guard rails and chains, and is kept level during vertical operation by electronic push-button control. / Southworth Inc., Portland, Maine.

629 WHEELCHAIR LIFT / "Porch-Lift" vertical wheelchair lift provides accessibility to buildings for those in wheelchairs, as well as those who are unable to climb stairs for any other reason. This weatherproof unit is UL-listed and comes in four models that will meet lifting requirements up to 93 inches. / American Stair Glide Corp., Grandview, Missouri.

630 STAIRLIFT / Supported by continuous cable-carrying tubes, the Garaventa stairlift negotiates straight, curves, corners and spirals carrying a wheelchair and an optional occasional seat. Many safety features are standard; the lift may be installed indoors and out in residential and public buildings. / Garaventa (Canada) Ltd., Blaine, Wash. GB*
AIR DISTRIBUTION EQUIPMENT

643 ROOF EXHAUSTER / The "Newex Model G" centrifugal exhaust fan features higher direct drive speed for pressure development, while running at very quiet noise levels. Fan is available in 16 sizes, in capacities up to 4295 cfm. / Greenheck Fan Corp., Schofield, Wisc.

644 UPLAST FAN / A centrifugal upblast roof exhaust fan in a smaller, more efficient cube model, the Newex fan is UL-approved for removing smoke and grease-laden vapors. It is available in nine wheel sizes, ranging from 10" to 48"-in. / Greekeh Fan Corp., Schofield, Wisc.

645 FAN DRIVE / Shown here in a cutaway illustration, the Modadrive is a controllable-speed fan drive for central station air handling units. Modadrive varies fan speed automatically to provide the precise air quantity needed at minimum static pressure over a wide load range, reducing system power consumption at part load operation. / Carrier Air Conditioning, Syracuse, N.Y.

646 HOUSE VENTILATION / Installed through wall or ceiling and roof, the "240-T" whole house ventilating system draws cool outside air through open windows and doors and circulates it throughout the house. Shutters automatically open when fan is in use. System comes complete with 0-12 hour shut-off time switch. / Kool-O-Matic Corp., Niles, Mich.

647 COOLING SYSTEM / The CVA1 cooling-only single zone rooftop variable air volume system comes in capacities of 25, 30, 50 and 50 tons. It is equipped with solid state computer control, two-speed compressors, independent DX cooling circuits and is available with other options and accessories. / Lennox Industries Inc., Dallas, Texas.

648 CENTRIFUGAL FAN / The Newex, Model GB belt-driven Centrifugal Roof Exhauster is designed to facilitate quiet air movement. The fan runs at low speed, is quiet, requires little maintenance and is available in nine sizes, with capacities from 800 to 25,000 CFM. / Greenheck Fan Corp., Schofield, Wisc.

649 FIRE ESCAPE / The E-Z-Scape is UL-Classified as a supplementary means of egress and cited by ICBO and other code groups. The Japanesemade device is a telescoping ladder built into the floor of high-rise balconies. In emergencies, users lift the lid, activating an alarm and releasing the ladder to the balcony below. Prices start at $720. / Naka Industries Ltd., Culver City, Calif. GB*

650 HVAC/SPRINKLER / With the Tri-Water system, Ener-Con water-source heat pumps can share the same piping provided for building sprinklers. This eliminates dual pipe loops and is said to improve the performance of both hvac and sprinkler systems. / American Air Filter Co., Louisville, Ky. GB*

651 RECESSED SPRINKLER / The "Cleaneill I" concealed sprinkler is 25 per cent smaller in diameter than previous models. Installation is accomplished by pushing the cover plate up to proper height and making one quarter turn. / Grinnell Fire Protection Systems Co., Inc., Providence, R.I. GB, ICR, E*
652 SPINKLER HEAD / Designed to protect against particularly intense fires, the High Challenge sprinkler has a double deflector that produces a much higher number of large water drops for quicker and more controlled response. Sprinkler is UL-listed and FM-approved. / The Viking Corp., Hastings, Mich.

653 SMOKE MASK / The wall-mounted smoke mask was developed for escape from fires. The mask features a non-combustible hood, a built-in filter/respirator, a fog-resistant window, and can provide 15 to 20 minutes of safer breathing. / Ziamatic Corp., Yardley, Pa.

654 "TALKING" EXIT SIGN / "Talking" exit signs broadcast a variety of safety messages, from fire to power shortage warnings. The signs, which are suitable for all public buildings, accept 120 or 277 Volt, 60 Hz. input and comply with the NFPA 101 Life Safety Code. / Exit-US, Inc., Eastington, Conn.

655 PURE AIR MONITOR / The Model 81 Pure Air Monitor is a self-contained device with a built-in red flasher and buzzer that warn when cigarette smoke exceeds comfort or safety levels. The monitor is 12 by 4 by 7-in. deep, installs without wiring, and can be placed wherever 110-V 60-cycle electricity is available. It costs $417.90. / Calibrated Instruments, Inc., Ardsley, N.Y.

656 FIRE GUARD DOOR / The Wonder Door Fire Guard Door is a dual-wall, self-cooling, folding fire barrier. In high-rise buildings, it creates "safe refuge areas" on each floor. "Crash-bar" handles and automatic operation make the doors accessible to the handicapped. Doors are of steel or aluminum and come in various colors. / Won-Door Corp., Salt Lake City, Utah

657 E-Z-SCAPE LADDER / E-Z-SCAPE is a hide-away ladder, for residential or industrial use, that functions as a fire safety system. The telescoping ladder comes in seven models, with 6 to 12 non-skid steps, and fits externally or internally in any building. / Nakash Industries, Ltd., Culver City, Calif.

658 HEAT EXCHANGERS

659 HEAT RECOVERY / The Energy Extender line of heat recovery systems now includes two models for lower capacity—residential/light commercial—applications. Wall-hung models use an efficient coil assembly to recover all the heat of rejection normally wasted by air or refrigeration equipment. / Schneider Metal Mfg. Co., Inc., Mason City, Iowa.

660 INDUSTRIAL CHILLER / Said to be the first centrifugal chiller designed specifically for heat reclaim operation, the "10HR" chiller allows peak performance in cooling-only and cooling/heating modes. / Carrier Air Conditioning, Syracuse, N.Y.

661 HEAT PUMPS


663 HVAC TERMINAL UNITS

664 PNEUMATIC CONTROL / Said to reduce costs by providing a more reliable and efficient control for air handling units, the "Pneumatic Integrated Control" system is designed, ordered and tested with computer assistance. / Johnson Controls, Milwaukee, Wis.

665 MECHANICAL CONTROLS
664 PLUMBING FIXTURES & TRIM

665 BATH ACCESSORIES / Kyoto, a creation of Jacques Delprande, provides deep soaking for up to three persons in a generous sized tub of 30 sq ft (22 in deep). / Water Jet Corporation, Canoga Park, Calif. GB*

667 WATER COOLER / Model PSR-8, a wall-hung cooler, requires no wall cut-out, even though the unit appears to be semi-recessed. The cooling mechanism fits behind the tan vinyl apron, easily accessible for maintenance. "PSR-8" weighs 57 lb, and is priced at $370. / Sunroc Corp., Glen Riddle, Pa.

668 SIX-SIDED BASIN / A self-rimming cast iron sink, the Hexagon lavatory measures 22 1/2 by 19-in., with faucet drilling 4- or 8-in. centers. It is available in most Kohler colors, including the bright "Accents" shades. / Kohler Co., Kohler, Wisc.

669 STEEL SINKS / One of over 100 Republic stainless steel sinks, the "Citation" double bowl sink has two 7-in.-deep basins. The 20-gauge steel has a high luster machine polish. / LINR Home Products, Paris, Ill.

670 OUTDOOR SAUNA / All materials and equipment required to build the Outdoor Sauna Cabin are available in 6'-6"-by-6'-6" and 6'-8"-by-8'-8" packages. Structure is solid Western red cedar. / AMERICORP Corporation, Bellevue, Washington.

671 FAUCETS / Available in either fluted chrome or crystalline designs, the Cadet line of fittings includes bath and shower faucets, kitchen faucets, and a center-set lavatory faucet. Washerless Nu-Seal valves employ a diaphragm mounted on the faucet stem. The valve body and moving parts are machined brass. / American Standard, New Brunswick, N.J.

672 LEVER HANDLE FAUCET / "Roma" fittings have 4-by 1-by 1-in handles in clear acrylic or in three onyx shades: brown, ivory and green. The yoke and cubic escutcheons are chrome-plated solid brass. Fittings incorporate no-drip Aquateal valves. / American Standard, New Brunswick, N.J.

673 BARRIER-FREE BATH / All five "Summit" molded fiberglass bath and shower units meet new ANSI A117.1 guidelines. Reinforced grab bars are placed to meet code requirements; tub seats and soap ledges are standard. Calypso whirlpools may be incorporated in "Summit" tub/shower units. / Durac Glass Products, Inc., Sebastopol, Calif. GB, LRC*

674 ACRYLIC BATH / Available with or without whirlpool action, the 5½-ft "Roma" tub measures 36-in. in width and is 18-in. deep. The acrylic unit is offered in nine colors plus white. / American-Standard, New Brunswick, N.J.

675 WATER CLOSET / A two-piece, water-saving unit, the "Roma" toilet has a reverse tapered tank that fits snugly to the bowl, giving an almost one-piece appearance. Only 3.5 gallons of water are used per flush. Push-button flush operator is mounted on the side of the tank. / American-Standard, New Brunswick, N.J.
676 PEDESTAL LAVATORY / Large—
30- by 20-in.—basin of the “Roma”
lavatory provides ample shelf space.
China basin is supported by a tapered
pedestal. / American-Standard, New
Brunswick, N.J.

677 PRE-RINSE FAUCETS / Dishes can
be rinsed before dishwasher operation
using pre-rinse faucets designed for
restaurant and commercial facilities.
Options include single or mixing fau-
cets, deck or panel mounting, and
foot-control valves. / Royal Brass Man-
ufacturing Co., Cleveland, Ohio.

678 WASHBASIN SET / Polished brass
and chrome, as well as a variety of
baked enamel finishes, highlight the
Zazzeri Line-Colore Series of solid
brass faucets and fittings for the bath
and shower. The eight-inch center
washbasin set can also be obtained in a
gooseneck style. / Manufactured by
Zazzeri, distributed by Watercolors

679 WASHBASIN SET / Developed by
the Italian firm of Zazzeri, the Cam-
elia Series of solid brass faucets and
fittings is available in white, navy blue,
red, brown, beige, and black baked
enamel finishes. Polished brass and
chrome, and a mixture of the two
metals, are also standard finishes. / 
Manufactured by Zazzeri, distributed by
Watercolors Inc., Garrison on Hud-
son, New York.

680 SHOWER DOOR / The 60-in.-
wide VISTA GLIDE Tri-panel Shower
Door features a center mirrored panel
flanked by two tempered glass panels.
Panels come in a choice of three
designs, and slide on nylon ball bear-
ings in a trackless, easy-to-clean, leak-
proof threshold. / Kinkead Industries
Inc., Chicago, Ill.

681 SHOWERHEAD / Part of the “Za-
zeri” line of contemporary Italian bath
fixtures, this showerhead is stocked in
polished brass and chrome, as well as
in baked enamel finishes of white, navy
blue, bright red, dark brown, beige
and black. / Manufactured by Zazzeri,
distributed by Watercolors Inc., Gari-
son on Hudson, N.Y.

682 TUB/SHOWER FITTING / French-
made “Odyssee” fitting combines a
tub spout with a hand-held, bar-
mounted shower. A rotating cylinder
regulates water flow; water tempera-
ture is controlled by a knob with a
temperature readout. Colored compo-
nents are available in either navy blue
or dark brown. / Watercolors, Inc.,
Garrison on Hudson, N.Y.

683 BATH ACCESSORIES / The
“Confidence” whirlpool bath is large
enough to allow two people to share
whirlpool bathing. Featured are head-
rests, dual air controls and a high-
velocity pump. / Water Jet Corpora-
tion, Camoga Park, Calif., GB8

684 DROP-IN WHIRPOOL / A new
size, the “Luxury 53” whirlpool bath
measures 5-ft 3-in. by 20-in. deep. It is
intended for drop-in or partially-sunk
installations, and is offered in 16
colors. Complete with timer, drain and
overflow, the “Luxury 53” has a sugges-
ted retail price of $1,395. / Pearl
Baths, Inc., Minneapolis, Minn.

685 TUB SURROUND / Three- and
five-panel bathtub wall surrounds now
have a molded-in utility bar, as well as
an integral soap dish. Tub walls are
made of fiberglass with a baked-on
polyurethane coating, available in six
standard, plus custom, colors. / The
Swan Corp., St. Louis, Mo.

686 REDWOOD SPA / A Jacuzzi
Whirlpool system built into a redwood
hot tub, the “Selva” spa has two sepa-
rate pumps, one for the heater/filler
system, and one for the whirlpool jets.
Offered in 5- and 6-ft dia., the “Selva”
comes in completely pre-engineered
kit form. / Jacuzzi Whirlpool Bath,
Walnut Creek, Calif.

687 SHOWER UNIT / The Visu-Temp
Safety/Handy shower and hand-held spray
have a pressure-balancing valve that
protects the bather from sudden
changes in temperature. The built-in
thermometer is especially useful for
installations serving handicapped per-
sons. / Symons Industries, Braintree,
Mass.
PORTABLE SPA / A self-contained, easy to install acrylic spa, the Cambio measures six-by-five-foot, large enough for four adults. Four adjustable Whirlpool inlets provide massage action. The tub weighs 425 lbs. and is priced at $3100. / Jacuzzi Whirlpool Bath, Walnut Creek, Calif.

DECK MOUNT SHOWER / New freestanding tubs, sunken tubs, spas: installations that might have to be without a wall-mounted shower. The "Ondine" deck-mounted shower includes chrome-plated shower rest and adapter, flexible hose, and hand set of acrylic and chrome-plated brass. / Ondine Div., Interthath, Inc., City of Industry, Calif. GB, LCR, E*.

MASSAGE SHOWERHEAD / Interchene, showerhead offers three flow settings—full-spray, hold, or massage spray—easily selected by control knob. Offset ball joint provides 102 degree swivel angle; showerhead comes with a 2.75 gpm automatic-flow controller. / Ondine Div. Interthath, Inc., City of Industry, Calif. GB, LCR, E*.

WATER CLOSET / Made of Azurite honeycombed plastic, the one-piece "Delta 4000" toilet is a low silhouette water-saving unit weighing only 29 lbs. Priced to retail for $250, the "Delta" is supplied with a push-button flush and its own seat, and comes in three colors. / Delta Faucet Co., Indianapolis, Ind.

KITCHEN SINK / The rim of Eljer's 32 by 21-in. double sink permits an installation flush with the tile counter top. The cast iron sink is available in four American Olean "Encore" tile colors: sand, seal, wheat and blue. Sink and tile comprise the "Ceramica Coordinates" counter system for custom kitchens. / Eljer Plumingware, Pittsburgh, Pa. GB, E*.

COMBINATION BASIN / Made of metacrylic plastic, the "Lavabo Attrezzagato" has a wide, wall-mounted basin. Above the basin are four side compartments concealing storage for grooming articles, a radio and clock, magnifying mirror, large mirrored door with shelves behind, and vertical lighting. / Hastings Tile & Il Bagno Collection, Lake Success, N.Y.

SELF-CONTAINED HVAC UNITS

ROOFTOP PACKAGE / An energy-efficient variable air volume rooftop system for commercial applications. the Modu-Pac II combines the Moduline/Modubox air distribution system with the self-contained "506" cooling unit. System has micro-processor controls to maximize use of outside air for free cooling. / Carrier Air Conditioning, Syracuse, N.Y.

SPECIAL PIPING SYSTEMS

TUBE COLLECTORS / Sunmaster evacuated tube collectors are used in residential and commercial-industrial solar energy heating and cooling systems all over the country. Borosilicate glass collectors are said to be easy to install. / Sunmaster Corp., Corning, N.Y.

SOLAR COLLECTOR / The copper absorber plate of the SCA Solar Collector is coated with black chrome for maximum absorbency and minimum radiation loss. Joyste and mounting holes facilitate installation / Lennox Industries Inc., Dallas, Texas.

SOLAR HEATING CONTROL / The P-100 differential solar heating control features a freeze back-up system, storage tank protection and a snap-in diagnostic tool for instant trouble-shooting. / Pyramid Controls, Pacheco, Calif.

VALVES

BTU METER / This lsta meter measures temperature differences of water and flow to provide six-digit output information in kw hours. Battery-operated, solid-state unit has all brass and bronze plumbing fittings. / lsta Energy Systems Corp., Cranford, N.J.

WATER SUPPLY & TREATMENT

SPRING RETURN / A failsafe rotary actuator, the AccuSpring provides high torque output for automatigquarter-turn valves. It is used with the AccuTape valve in dampers, gears or lever arms, lifting, tensioning, positioning and related operations. / Greer Hydraulics Inc., Chatsworth, Calif.
CEILING FANS / National Energy Systems, Inc., now offers a 4-page, color brochure on the line of Crompton ceiling fans, which are manufactured in England by Hawker Siddeley. Data are provided on performance, applications and energy cost savings. • National Energy Systems, Inc., Wayne, Mich. circle 3299 on inquiry card

SPRINKLER SYSTEM / A 24-page brochure highlights the ways in which sprinkler systems have been discreetly incorporated into the design of large projects. The brochure, called "Form/Function/Fire Protection," contains architectural examples which are protected by the manufacturer's sprinklers. • Grinnell Fire Protection Systems, Providence, R.I. circle 3292 on inquiry card

HEAT PUMP / A new concept in piped for water-source heat pumps is described in a 4-page brochure. A single-pipe loop serves both heating/cooling units and the sprinkler heads. The Tri-Water system, approved by NFPA, reduces heating/cooling costs and improves the reliability of the sprinkler system and the heat pump. • American Air Filter Co., Louisville, Ky. circle 3297 on inquiry card

WHIRLPOOLS AND SPAS / A 24-page brochure showcases a complete line of spas, whirlpool baths and environmental enclosures. Four-color photographs display each model, and text describes product features and options. Also described are The Environment and The Habitat enclosures which simulate sun, rain and wind. • Kohler Co., Kohler, Wis. circle 3293 on inquiry card

CONTROL VALVE / A data sheet introduces a temperature control valve designed for use with low-pressure one-pipe steam systems. The easy-to-install brass valve prevents overheating and provides balanced heat distribution and an even temperature. Drawings and a cross-section show how unit is constructed and installed. • Ista Energy Systems Corp., Cranford, N.J. circle 3298 on inquiry card

CEILING FANS / A set of four bulletins introduce the Imperial line of Decorafans, which provide improved heat circulation as well as an attractive addition to room decor. The bulletins give detailed product and warranty information and specifications. All models are illustrated. • Environair Systems, Inc., Buffalo, N.Y. circle 3294 on inquiry card

ELECTRIC ZONE VALVE / An electric zone valve, designed for use with hydronic or steam heating systems, is presented in a data sheet. The actuator can be installed on any of the manufacturer's valves. The sheet includes electrical specifications, a list of product features, and a wiring diagram. • Ista Energy Systems Corp., Cranford, N.J. circle 3299 on inquiry card

BARRIER-FREE PRODUCTS / An 8-page catalog presents complete specifications for a line of barrier-free water coolers, drinking fountains, kitchen sinks, lavatories, shower valves and faucets. All products shown comply with ANSI standard requirements. Illustrations display many of the products. • Elkay Mfg. Co., Oak Brook, Ill. circle 3295 on inquiry card

HEAT PUMPS / A 16-page brochure describes the operation and characteristics of five models of console heat pumps. A full-page chart summarizes the consoles' features and their benefits; console capacity ratings are also tabulated. Left- and right-hand piping/electrical connections are illustrated in line drawings. • American Air Filter Co., Louisville, Ky. circle 3290 on inquiry card

SHOWERS / Specifications and prices for a line of hand-held "Personal Care" showers are reported in a 6-page folder. According to the brochure, the units conserve as much as 50 per cent of the water and energy consumed by typical showers. Details on flow rates, components and applications are provided. • Ondine, City of Industry, Calif. GB, LCR, E* circle 3300 on inquiry card

ONE-PIECE WATER CLOSET / A low-profile, one-piece water closet is presented in a 6-page, fold-out brochure. Text describes the advantages of the "Series 4000" unit, such as its contemporary look, its push button operation, and its light weight. The unit uses only 2.8 gallons per flush. • Delta Faucet Co., Decatur, Mich. circle 3301 on inquiry card

PLUMBING/LAUNDRY LINE / A full line of plumbing and laundry products is cataloged in a 24-page publication. Products for use in new and retrofit construction are displayed, including one-piece bathtub/sink/shower and tub enclosures, acrylic bathtubs and shower stalls/ institutional products. • Fiat Products, Skokie, Ill. circle 3302 on inquiry card

AIR CONTROL / A revised publication lists descriptions of publications covering subjects related to air movement and control. Specific topics include industrial and commercial fans, louvers, damper and shutter, field performance measurement and industry standards. • Air Movement and Control Assn., Inc., Arlington Heights, Ill. circle 3304 on inquiry card

DRINKING FOUNTAINS / A 20-page catalog presents a complete line of drinking fountain and water coolers. Over 20 four-color photographs showcase some of the products, and text fully describes over 50 fountain models. Also depicted are eight drinking fountains specifically designed for the physically handicapped. • Sunroc Corp., Glen Riddle, Pa. circle 3305 on inquiry card

For more information, circle item numbers on Reader Service Inquiry Card, pages 5-20.
COMMUNICATIONS

712 AUDIO EQUALIZER / Model 6201 is both a ⅓-octave equalizer and a self-contained test instrument, combining in a single unit all filters, controls, and circuitry required for professional system equalization. The system is designed for most musical reproduction, and all systems can be used for speech and sound masking. / Rauland-Borg Corp., Chicago, Ill.

713 OFFICE-MUSIC SOURCE / A new series of amplifiers and tuners are offered by this manufacturer to provide background music through either radio or (with the substitution of a player) tape. Programs can be muted for announcements or alarms. / Bogart, A Division of Lear Siegler, Inc., Paramus, New Jersey.

714 SOUND EQUALIZER / Offered in three models for single to multiple channels, these units modify frequency response with varying degrees of detail. The 1653B model offers one-third octave accuracy for a wide range of professional and industrial applications. / Atec Lansing, Anaheim, Calif.

715 VIDEO RECORDER / New TLC2001 time lapse video recorder is designed for a broad range of security applications. Its capacity is 300 hours of non-stop recording on one half-inch cassette. The recorder also has automatic alarm search, has a built-in power backup if electrical power fails, and is virtually tamperproof. An internal timer turns the device on and off automatically. / GYVR Products, Anaheim, California.

716 SOUND DISPERSION / The STSB-P Baffle is a recessed 12-in. square molded polystyrene ceiling-diffuser baffle designed to provide maximum sound dispersion for background music and paging applications. / Lowell Manufacturing Company, St. Louis, Missouri. CB*

717 PERSONNEL REGISTER / For use in hospitals and other health care facilities, this "Personnel Register" instantly reads out the names of all staff members and doctors who are present in the institution, and the time of their arrival. It also provides readout of messages awaiting. / Rauland-Borg Corp., Chicago.

718 CALL SYSTEMS / Micro-processor-based, the Philips "M100P" internal communications system features hands-free loudspeaking operation. Easy to install, cable is routed wherever desired and stations are simply plugged in anywhere along the cabling. There is a full range of communications options such as group calls, break-in immunity, etc. / Rauland-Borg Corp., Chicago, Ill.

719 NURSE CALL / The TeleNurse 7000 voice communicator has a simple-to-use Master Station, shown here, with call priority keyed to lamp colors and special tone signals. Bidside stations are equipped with a selection of call cords; corridor and zone lights are available with the TeleNurse system. / Rauland-Borg Corp., Chicago.

720 IN-WALL AMPLIFIERS / Spectrum-Master professional in-wall amplifiers now come in powers of up to 100 W. Unit installs in any 4-in. wall, or may be surface-mounted. Features include a built-in one-octave equalizer; dynamic range extender; and four microphone inputs. / Rauland-Borg Corp., Chicago, Ill.
ELECTRICAL & ELECTRONIC CONTROLS

721 TEMPERATURE PROGRAMMER / The SA203 Temperature Programmer is a microprocessor-based unit designed for use with heating systems having room or zone thermostats. It provides for two periods of temperature setback for each day, and serves as many as 20 thermostats / Sunne Controls, Portland, Ore.

722 RESET-TIMER SWITCH / Installed in an ordinary switch box, two versions of this timer turn off lights after either 5 to 30 minutes or 1 to 4 hours. The lights are switched on by an ordinary toggle switch / Micromer, Sunnyvale, Calif.

723 PARTITIONS / This electric switch allows the setup of movable partitions in a number of different locations. One, two, or three partition runs can be moved through the switch without disturbing the remaining partitions / Hough Manufacturing Corporation, Janesville, Wisc. GB

724 DIMMER CONTROL / The "Nova 227" volt fluorescent dimmer features a linear slide control. When installed in the recommended dimming ballast, it can be set as low as 1/500 of maximum intensity. Tamper-proof faceplate is available in several colors / Lutron Electronics Co., Inc., Coopersburg, Pa.

725 LIGHTING CONTROL / The Pae- sar PRF is an electronic power control module that can reduce light levels to cut energy consumption up to 60 percent. Designed for easy retrofits into 120- and 277-volt, 40- and 90-lamp fluorescent lighting systems, the Paesar has a daylight photosensor to adjust lighting levels / Lutron Electronics Co., Inc., Coopersburg, Pa.

726 MODULAR CONTROL SYSTEM / The Micronet 100 electronic control system supplies output signals for electric or pneumatic actuators used to operate dampers and valves. It is suggested for smaller buildings needing central control and alarm announcement of mechanical systems / Honeywell Inc., Commercial Div., Minneapolis, Minn.

727 SETBACK THERMOSTAT / Developed for the residential market, the "TB200" electronic thermostat can be scheduled for two energy-saving periods and two comfort periods a day. Priced to retail for less than $100, the "TB200" has a continuous digital clock readout showing time and temperature schedule / Honeywell Residential Controls Center, Minnetonka, Minn.

728 AUTOMATIC DAMPER / Controlled by the room thermostat, the "TB80B" automatic vent damper for gas-fired furnaces and boilers seals the vent when the furnace is off. An integral safe-start circuit allows furnace ignition only when the damper blade is fully open / Honeywell Residential Controls Center, Minnetonka, Minn.

729 MULTISTAGE / The "TB74" regulates up to three stages of heating and three stages of cooling. The thermostat can be used on heating/cooling systems with heat pumps, two-stage gas, multizone hydronic, rooftop or other auxiliary heating or cooling sources / Honeywell Residential Controls Center, Minnetonka, Minn.

730 ENERGY MANAGEMENT / Low installed cost is promised by the "Current Courier" wireless system, which sends high frequency signals from the master control panel to terminal equipment on existing AC power lines / American Air Filter Co., Louisville, Ky.

731 BUILDING AUTOMATION / Using a building's existing AC power lines, the compact "System 55" console can regulate timed start/stop, duty cycling, demand load shedding, etc. for as many as 150 remote equipment points / Robertshaw Controls Co., Integrated Systems Div., Las Vegas, Nev.

732 IMPROVED BALLAST / With more energy-saving capabilities than this company's recently introduced fluorescent ballast, this one is designed to replace conventional electromagnetic models, and operates two 40-watt lamps / Thomas Industries Inc., Louisville, Ky.
733 REPLACEMENT TRIM / Dated troffers can be given a new appearance with new door-and-frame units that are easily seated in the existing track. A choice of lens, diffuser or louver is available for doors, along with 6 frame styles. Units fit troffers that are 2-ft by either 1-, 2-, or 4-ft / Lighting Products Inc., Highland Park, Ill.

734 SUN-RESISTANT GLOBE / Designed to eliminate the problem of discoloration through ultraviolet stability, these acrylic-plastic light enclosures also offer good light transmission and high-impact resistance. Diameters range from 1- to 2-ft, and colors are clear, white, or gray and bronze tints / Ibac Industries, Inc., Princeton, Minnesota.

735 FLUORESCENT ADAPTOR / A ballast that screws into an incandescent lamp outlet allows a 15-Watt, U-shaped fluorescent bulb to take the place of a standard 50- to 60-Watt bulb. The new bulb connects with four prongs, and is only slightly larger than the standard bulb / Interlectric Corporation, Warren, Penn.

736 SMALL SODIUM BALLASTS / Developed for high-pressure lamps, these core and coil reactor-type units allow greater flexibility in fixture design. Sizes range from those for 35-Watt lamps to 130 / Universal Manufacturing Corporation, Paramus, New Jersey.

737 CUT-OFF LUMINAIRE / Designed for area/street lighting, SPHERA is convertible to type III or type IV distribution by means of an internal tilt mechanism. The reflector can be rotated nearly 360 deg. for further control of foot-candle levels / McPhilen Lighting Div., Emerson Electric Co., Melville, N. Y.

740 OUTDOOR LIGHTING / In a new line, QL Luminares feature adjustable and interchangeable lighting reflectors. Also featured is an energy-conserving, twin-lamp unit that supplies varying light intensities for peak or off-hour traffic. Standard units are available for end or post-top mounting / QL Inc., Northbrook, Ill.

738 INDIRECT FIXTURES / The SFK and SFL fixtures have a unique optics system that reflects light to the ceiling in a 360-deg. pattern from a 175-W Multi-Vapor II lamp. SFK has aluminum housings separated by a clear plastic band. Stem-mounted SFL has remote ballast location / Lighting Products Div./McGraw-Edison Co., El Grove Village, Ill.

741 TUBE LIGHT / End-mounted, lensed Lite Duct can be used as a direct, indirect or side light. Available in 4-, 6- or 9-in. dia., the units are sufficiently rigid to permit long spans without center support. Optional optical systems adapt the fixtures for wall washers, general office lighting or area lighting / Peerless Electric Co., Berkeley, Calif.

739 THERMAL FIXTURE / Prescolite has introduced its first line of enclosed, thermally-protected recessed lighting fixtures to meet the new NEC requirements for non-insulated ceilings / Prescolite, San Leandro, Calif.

742 DUAL FIXTURE / Magica can be used for either general illumination or accent lighting. In the recessed position it is a broad-spread downlight. In the pull-down position it becomes a narrow-distribution accent light that can be aimed with full freedom of tilt and rotation / Omega Lighting, Melville, N. Y.

744 EMERGENCY LIGHT / Low-cost and easy to install, the Chloride MT2 is compact and requires little maintenance. The lead batteries are rechargeable, and the tungsten lights can be adjusted for desired widths of beams. Units have a test switch and a low-voltage disconnect to prevent severe battery discharge during extended outages / Chloride Systems, U.S.A., North Haven, Connecticut.
745 TASK/AMBIENT LIGHT / For the open office, three models of fluorescent fixtures have been designed to complement the manufacturer's ceiling lighting systems. The Holophane 360 is 20-in. wide and can be placed in any of six positions within a 5- by-5-ft. grid. Two other models are square. All use 40-watt lamps, and direct light to desired locations. / Holophane Division of Johns-Manville Sales Corp., Denver, Colo.

746 VARIABLE LIGHTING / Outdoor fixtures have interchangeable faceted reflectors that give different lighting patterns and intensities for different effects and conditions. They are especially useful on roadways with surfaces that change from rough to glaringly smooth through wear. / Q.L., Inc., Northbrook, Ill.

747 DESK LAMP / "20/20", a new series of desk lamps, can be easily moved and extended to any part of a desktop. The shade and base are molded of high impact Cylcloc and the unit is noted in both fluorescent and incandescent models and comes in black, white, putty and red. / Park Sherman, Roseland, N.J.

748 LAMP SERIES / The "Twilight" series has been designed by Ken Stevens for a variety of uses. The removable brass shades pivot to direct light up or down without mechanical adjustment. The stem of the floor lamp telescopes to provide optimal reading or torchere heights. / Koch + Lowy Inc., New York, N.Y.

749 LINEAR INCANDESCENT / A two-foot-long by three-inch-diameter housing accommodates five "G" lamps. Capacity 200 Watts. Unit can be wall- or ceiling-mounted and is available in polished brass, satin bronze, red, yellow or white. Designed by Paul Mayen. / Habitat Inc., New York City, N.Y.

750 EMERGENCY LIGHTING / A new series of self-contained, battery-powered emergency lighting units for commercial, industrial and institutional applications. Units provide 90 minutes of continuous service, and recharge in a maximum of 12 hours. All models have compact, thermoplastic housings, and several models feature automatic brown-out protection which turns the unit on before reaching the critical volatages at which fluorescent or other ballast operated lights extinguish. / Lithonia Lighting, Conyers, Ga.

751 SPECIAL LIGHTING / Stagemtron is a unique three-in-one dimmer control board for theater and entertainment lighting. Its three modes allow for the control of as many as 18 dimming circuits either with or without presets, and for exceptional flexibility in all aspects of theater lighting. / Roctronics, Pembroke, Massachusetts.

752 RED CEDAR BOLLARD / The "Lighthouse" landscape lighting bollard takes a 50-watt hps lamp; the low-level lighting standard is laminated of kiln-dried Western Red Cedar. Direct burial installation is standard. Many other landscape lighting and site furnishings are offered. / Ryther-Purdy Lumber Co., Old Saybrook, Conn. GB*

753 LIGHT CUBE / Lewis Stein's 12-in. cubic light is made of Lucite with a chrome switch plate. It can be used singly or in multiple units, with white or colored bulbs. / Beylerian Ltd., New York, N.Y.

754 ASYMMETRIC LAMP / This oyster white asymmetric lamp is designed for local task lighting where contrast and lack of glare are important factors. The shade and reflector can be turned 360° around vertical axis. The lamp takes a 60-Watt bulb and costs $109.95. / Charmette, Woburn, Mass.

755 LIGHTING SYSTEM / The Triambient Lighting System employs panel-mounted H.I.D. and fluorescent, and free standing H.I.D. fixtures. The lights are design and color coordinated with UniGroup office interiors system. Many fixtures have internal electrical interface with TriCircuit ERA-T series of pre-wired panels. / Haworth, Inc., Holland, Mich.

756 SQUARE LUMINAIRE / "Type 5" pole-mount luminaire provide an efficient, square pattern of light distribution. Sharp cutoff with H.I.D. lamps permit maximum pole spacing in parking lot and general area applications. / Kim Lighting, Inc., City of Industry, Calif.
COMPUTER ROOM / A special lens and reflector assembly available or the 6-in-dia Lite Duct fixture provides an even, glare-free light that makes CRT tubes and LED readouts easily visible in high-illumination areas. / Peerless Electric Co., Berkeley, Calif.

ITALIAN LIGHTS / The "Aton" series includes these standing lamps, wall brackets and ceiling fixtures, all designed by E. Tismon. The cast aluminum diffuser rotates on its stem in any horizontal or vertical direction. Light source is a "T3/CL" quartz halogen lamp with dimmer. / Artemide, New York City.

OUTDOOR LIGHTING / The "Low Level Floodlight," mounted on buildings below eye level, provides both symmetrical and asymmetrical light distribution. Fixture may also be used indoors. / Kim Lighting, Inc., City of Industry, Calif.

EMERGENCY LIGHTS / "Tri Color Decor Group" six-volt emergency light units come with either PAR 36 sealed-beam floodlights, or halogen sealed-beam lamps. Up to eight lamp heads may be mounted on either unit. Battery is recharged automatically, and is guaranteed for five years. / Teledyne Big Beam, Crystal Lake, Ill.

GASLIGHT LOOK / Area lighting luminaires and poles come in a variety of wet-looking acrylic enamel finishes. Units take HID light sources. / Architectural Area Lighting Co., Santa Fe Springs, Calif.

MALL LIGHTING / HID luminaires have an Art Deco look, available in several acrylic enamel colors. Lights may be pendant-, bracket-, or multiple-post mounted. / Architectural Area Lighting Co., Santa Fe Springs, Calif.

SITE LIGHTING / Bollard and bracket lighting has vandal-resistant white lexan diffusers, protected by a cast aluminum ribbed guard. Luminaires are available in a number of acrylic enamel colors for bollard, ceiling, or bracket mounting. / Architectural Area Lighting Co., Santa Fe Springs, Calif.

ENERGY-SAVING / The Ultralume prime color fluorescent lamp is now available in an Econ-o-watt model, which provides 30 per cent more light while using 15 per cent less energy than standard deluxe 40-Watt fluorescent. Ultralume Econ-o-watt lamps are offered in three color temperatures for warm or cool illumination. / Westinghouse Electric Corp., Bloomfield, N.J. CB, ICR, E*

COMPACT HPS LAMP / A small-er lamp, which will burn in any position, the 70-Watt "T-10" high-pressure sodium lamp has been added to the Ceramalux energy-saving line. Its compact size (5½-in. over-all) permits use in smaller-scale luminaires for street, flood and security lighting. / Westinghouse Electric Corp., Bloomfield, N.J. CB, LRC, E*

WALL-MOUNT LIGHT / Constructed of laminated California redwood, "3055A" wall fixture accepts 100-watt incandescent or 40-watt metal halide bulbs. Housing can be carved with house number or monogram, and comes in three widths: 7½-, 13½- and 19½-ins. / Columbia Cascade Timber Co., Portland, Ore. GB, LRC*.

POST-TOP LUMINAIRE / One of two new styles available in this maker's outdoor lighting line, the "Contempo" luminaire has a cast-aluminum base and spun-aluminum hood. Only a screwdriver is needed to secure the light to the pole and make all electrical connections. Light sources include HPS mercury vapor or metal halide. / ITT Outdoor Lighting, Southhaven, Miss. CB, ICR, E*

ORNAMENTAL LIGHTING / The new "classic" pole and light assembly features glass-like acorn designs on flared and fitted fitters assembled on 3900 model decorative pole all cast in aluminum. The assemblies scale 11 to 15 ft of over-all height / Sternberg Lanterns, Inc., Chicago, Illinois CB*.
769 FIXTURES / New improvements in these semi-recessed precision lighting instruments have enhanced their lighting performance at a reduced cost. The new units represent an economical approach to asymmetric lighting tasks such as wall washing. / Elliptipar, Inc., West Haven, Conn.

770 WALL WASH / Fluorescent wall wash system has optional lighting diffusers of specular parabolic aluminum, straight painted metal baffle, or acrylic. System may be field-adjusted to fit any wall length. Overlap lamps allow no shadow, even illumination. / Columbia Lighting, Inc., Spokane, Wash.

771 DESK LAMP / Set on a cast metal base, Sandy Littman's desk lamp has an original Holophane ribbed glass shade covering a 60-Watt clear bulb. Lamp stands 20 in. high; base is available in black, white, silver and mandarin red, as well as custom colors. / The American Glass Light Co., New York City.

772 RIBBED GLASS / For both residential and commercial applications, this ceiling fixture has a 10% in-dia shade of “old fashioned” ribbed glass with a scalloped edge. Housing is brass. Fixture takes a 60-Watt clear bulb. / The American Glass Light Co., New York, N.Y.

773 TUBE LIGHT / A standing lamp of chrome-plated cast iron and steel, this tube light from Images of America's “Classics Collection” was designed by Eileen Gray in 1935. Replacement bulbs are available for the incandescent tube. Unit list price for light: $350. / Beyerian Marketing Group, New York, N.Y.

774 FREESTANDING FIXTURES / The SPI product line includes a wide selection of ambient light fixtures, with new finishes of enamel, chrome, brass plating and vinyl claddings. / McCraw-Edison Co., Elk Grove Village, Ill.

775 LIGHT POSTS / “Period” light posts feature scrolls and filagree in seven hand-antiqued finishes. Available in various globe, acorn or cylindrical fittings of lexon or acrylic. Constructed of cast aluminium, the posts carry mercury vapor, high-pressure sodium, or incandescent elements. / Sternberg Lanterns, Chicago, Ill.

776 FLUORESCENT LAMP / New family of Watt-Eise® Mod-L-Line® in two sizes and four colors is designed for use as energy-saving replacement in most fixtures now using standard 40-Watt, U-shaped fluorescent lamps. No ballast changes or rewiring is necessary. / General Electric, Cleveland, Ohio.

777 CORNER LIGHT / Mounts flush to 90-deg. corners and swivels through wall-to-wall arc. Fixtures with fully adjustable shades are available in wide variety of styles and finishes, and come complete with 25-Watt long-life reflector bulbs. / Roxter Corp., Long Island City, New York, N.Y.

778 LIGHTING PANEL / The “Constellation” is a cellular panel for use in suspended ceiling applications. The louver has a lustrous, metallic finish of silver, gold or bronze. When installed, the louver rests on perimeter framing so that bottom of panel tends to hide the supporting tee. / Scientific Lighting Products, St. Louis, Mo.

779 REPLACEMENT LAMP / “Hawk-eye 5400” series is designed for retrofitting broken incandescent and mercury vapor fixtures. New line of 35-, 50- and 70-Watt sodium lighting fixtures are prewired for easy installation and guaranteed indestructible. Bronze-finished fixtures are suitable for both indoor and outdoor applications. / Kenall Manufacturing Co., Chicago.

780 WALL LAMP / Designed by Tobia Scarpa, the smoothly curved “Foglio” fixture casts screened light up and down wall surfaces. Lamp takes two 100-Watt incandescent bulbs; finish choices include white enamel, polished nickel or brass. / Atelier International, Ltd., New York City.
781 DESK LAMP / Cantilevered from a transformer-base stand, the "Ipoteca" lamp casts a large circle of light from a 55-watt halogen bulb. The wireless inclined support rod serves as coaxial electrical conductor. Shade is cranberry-red metacrylate. / Atelier International Ltd., New York, N.Y.

782 TRACK CONNECTOR / For use with the Trac Master lighting system, this accordion connector joins two pieces of track at virtually any angle, letting lights clamp a wall and cross a ceiling, or form a circle of track. Available in black or white. / Juno Lighting Inc., Des Plaines, Ill.

783 TRACK FIXTURES / Additions to the Trac Master line. "Studio 1" lights are offered in three sizes and finishes such as white semi-gloss, chrome, and polished or antique brass. Accessories include adjustable barn doors, shown on the far left light, filter holders, and color filters. / Juno Lighting Inc., Des Plaines, Ill.

784 TASK LIGHTING / Designed by Santon Lamp Gas, Italian-made "Etrusco" lights have fully articulated arms that stay in place without springs and adjust to infinite positions. Made of white- or black-finished aluminum alloy, lamps are available in table, wall, clamp-on and track lighting models. / Koch + Lowy, Long Island City, N.Y.

785 DECORATIVE PANEL / The "Constellation" louver uses cylinders of various depths finished in mirrored silver and gold metallics to reflect light from Ceiling Fixtures. Lenses come in 2-by-2- and 2-by-4-ft sizes, in polystyrene or acrylic. / Scientific Lighting Products, St. Louis, Mo.

786 LOW VOLTAGE / A 24-volt lighting system drawing only one Watt per lamp, "Cultured Coffers" have a 20-year life expectancy. Lamps are set inside mirror gold metal coffers, creating reflective images. / Neo-Ray Products Inc., Brooklyn, N.Y.

787 FLAT TAPE LIGHTING / The "Bare-Bud Light Show" features 48 low-voltage lamps on a pressure-sensitive, flexible, flat wire tape. Standard tape and trim assemblies have "Bare-Bud" on 2- or 3-in. centers. / Neo-Ray, Brooklyn, N.Y.

788 TASK LIGHT / Designed for the 10 to 20 per cent of office workers who require high levels of illumination and glare-free lighting without veiling reflections, this task light provides 65 ESI l.c. The articulating arms can extend 54 in., with 355-deg rotation. / Herman Miller, Inc., Zeeland, Mich.

789 STANDBY GENERATOR / A continuous standby generator set, Kohler's "32.5 Kw" model is reconnectable to all standard voltages. Liquid cooling options include city water or remote radiator: unit uses gasoline, LP gas or natural gas. / Kohler Co., Generator Div., Kohler, Wisc. GB*

790 DIESEL GENERATOR / One of Kohler's new "8-Series" standby generators, this diesel-powered 32.5-kW set is available in all standard one- and three-phase voltages, including 480- and 600-volt combinations. It can be field connected to all standard voltages from 120 through 480. / Kohler Co., Generator Div., Kohler, Wisc. GB*

791 AIRCRAFT PROTECTIONS / Series 155 Airguard system provides interior surveillance of a parked aircraft. A remote, battery-operated kiosk has wide-angle and zoom lenses for TV surveillance, as well as infrared and motion detectors, which transmit signals to an on-board or remote monitoring location. / Visual Methods, Inc., Westwood, N.J.

792 SECURITY SYSTEM / Model SED is a low-priced security system that works on a building's telephone line. A visitor dials a coded apartment number listed on the occupant directory. The occupant dials digit "9" on his telephone to release the locked lobby door. / Marlee Electronics Corp., Los Angeles, Calif.
793 INTRUSION DETECTOR / Operating with a passive infrared beam over a 20- by 35-ft area, the sensor box has an interchangeable circuit board for different types of alarm connections. There are optional additional features, and different beam-ranges will be available shortly. / Colorado Electro-Optics Inc., Boulder, Colo.

794 CARD-ACCESS UNIT / Monitoring up to 500 individually coded cards, this unit will control a single door, and operates with an infrared beam. Unit features time-saving programming and instant verification of any cardholder’s status. / Continental Instruments Corporation, Westbury, N.Y.

795 SECURITY SYSTEM / The new “Entragard Model S5” utilizes a key- board instead of a key or magnetic card to provide selective entry to restricted areas. The device can store up to 10,000 combinations of identity numbers, and is surface-mounted in doors where it is accessible for simple number changes. / Marlee Electronics Corp., Los Angeles, Calif.

796 SECURITY SYSTEM / Model P-61 consists of a small console plus a number of sensor radio transmitters that are activated contingent an intruder opens a protected door or window. The console activates an external siren or bell alarm. Infrared detection devices may also be added to protect an interior or exterior zone. / Linear Corporation, Inglewood, Calif.

797 TWO-WAY SECURITY / Mosler’s “COMSEC” can monitor hundreds of locations simultaneously, identify the precise nature of any alarm, and suggest the appropriate solution to the guard. The central monitoring unit can operate without computer enhancement, recording changes in security or life safety status on its alphanumeric display. / The Mosler Safe Co., Hamilton, Ohio. GB Eff*

798 COVER PLATE / Weatherbeater cover plates are designed to protect electrical devices in severe weather and wet conditions. Listed by Underwriters Laboratories, this cover plate is available in single- or double-door models. / General Telephone & Electronics Corp., Stamford, Connecticut.

RACEWAYS

799 TRICIRCUIT ERA-1 / The TriCircuit panels can simultaneously power convenience outlets, special equipment and lighting on separate electrical circuits. Also, more than one circuit can be designated for a particular need. / Haworth, Inc., Holland, Mich.

SERVICE & DISTRIBUTION

800 GROUND RECEPTACLE / A new line of UL-listed, isolated ground receptacles now includes 15- and 20-amp, 125- and 250-Volt straight blade configurations. All are available in single models, and some in duplex models. All mate with equivalent-rated devices. / General Electric, Norwalk, Conn.

801 PANEL SYSTEM / The “Power Base” of Hauserman’s Privacy Panel System distributes power and communications through a single raceway, pre-assembled or retrofitted to the bottoms of standard 48-, 60-, or 75-in. panels. The raceway accommodates 5-, 4-, or 3-wire systems, up to three 20 amp/120-Volt circuits. / The E. F. Hauserman Co., Cleveland, Ohio.

802 FLAT CABLE WIRING / The Ver- sa-Trak flat conductor cable wiring system, installed directly on the office floor and covered with modular carpet, has been expanded to include telephone and data transmission wiring. The highly adaptable wiring is UL-listed and meets all NEC/328 requirements. / Thomas & Betts Corp., Raritan, N.J.

803 SERVICE BOXES / For telephone and CATV terminals, service boxes offer maximum protection and accessibility for apartment and commercial construction. New models are available for both recessed and surface mounting (pictured). / Benner-Navman, Inc., Pleasant Hill, Calif.

804 ELECTRICAL DISTRIBUTION / The “Integrated Multiple Power and Communications” electrical distribution system for this manufacturer’s open plan office furniture consists of a 3-circuit, 6-wire arrangement. This allows up to 13 outlets per circuit, totaling 39 receptacles from a single power source. / Panel Concepts, Inc., Santa Ana, Calif.
Only for HPS. Only from ITT.
The HPS Cutoff Luminaire.

Only ITT built a cutoff luminaire around an HPS lamp. To give you a new HPS Cutoff Luminaire that is photometrically and mechanically superior to ordinary cutoff luminaires. Ours was designed specifically to precisely control and convey HPS light—the energy-efficient light source. Ours is the good looking way to put light where you want it. The flat cutoff unit was meticulously engineered to dramatically reduce hot spots and dark areas. And give you improved surface visibility.

Its one-piece reflector and one-piece die-cast housing make easy work of installation, maintenance, and cleaning. It opens with a simple one-hand latch, and there are no seams to collect dirt. It's available in 70 through 400 watt units. The ITT HPS Cutoff Luminaire uses HPS energy so masterfully, it has a 70% luminaire efficiency. In a typical area lighting application, the HPS Cutoff Luminaire yields 10% higher average illumination with a 10% higher minimum illumination point.

So if you're looking for an area luminaire that is quality constructed, uses HPS energy efficiently, and is aesthetically appealing, you've found it. Write for our free complete catalog: ITT Outdoor Lighting, Box 100, Dept. K8, Southaven, MS 38671. Or call 601-342-1545.
LIGHTING CONTROL / The "Modulighting" control system is introduced in a 12-page brochure. The computerized system can reduce lighting energy needs in commercial buildings by up to 45 per cent, according to the text. The 4-color publication includes graphs and charts that trace the relationship between light output and power consumption.

STAFF REGISTER SYSTEM / Fast communication is provided by the "staff register" system described in a 2-page flyer. System can handle up to 999 staff members. It is easily installed and updated, according to the manufacturer. • Dukane Corp., St. Charles, Ill.

Designs include low-voltage units with built-in transformers, four 12V series, one 5V series, and a 50-W narrow PAR 36 lamp. Also introduced: accessories such as a top feed for suspended ceiling installations. • Progress Lighting, Philadelphia, Pa.

SOUND SYSTEM / An AM/FM Tuner-Amplifier provides background music and voice paging capabilities. Features of the compact unit include paging override, musical output for phone calls placed on hold and a sensitive tuner. The unit, described in a flyer, is designed for use in stores, restaurants and offices. Specifications are included. • Dukane Corp., St. Charles, Ill.

DESIGNER LIGHTING / Fourteen award-winning interior lighting fixtures from Florence Arteluce of Italy are displayed in a 10-page brochure. These 14 designs make up the Lighting Quick-Ship program, which is committed to shipping its orders within 10 working days. Products are illustrated in photos and drawings, with model descriptions below. • Atelier International, New York, N.Y.

LIGHTING / A 60-page guide to lighting systems for commercial, industrial and large-area applications is available. Included are specifics on lighting driving ranges, basketball and handball courts, football fields and other activity centers. Charts summarize proper floodlight location and the fixture most suitable. • Hubbell Lighting Div., Harvey Hubbell, Inc., Christiansburg, Va.

INTERCOM / A flyer describes a high-power intercom system designed to provide direct communication in areas with high ambient noise levels, such as factories and shopping centers. System features include remote answering capacity, installation flexibility and additional switchbanks for expanding the system. • Dukane Corp., St. Charles, Ill.

STANDBY POWER SYSTEMS / A 16-page catalog features a line of standby generators for use on site. Models shown and described include liquid- and air-cooled gas/gasoline and diesel generators. Standard features and options for each model are described. Detailed information on safety features and quality control is also given. • Kohler Co., Kohler, Wis.

PAGING SYSTEM / This voice paging system, described in a 4-page brochure, is capable of services ranging from departmental paging to facility-wide announcements. The basic system can be enhanced by adding such features as an AM/FM tuner and tape/record player. Emergency announcements will override routine pages and background music. • Dukane Corp., St. Charles, Ill.

WIRING SYSTEM / A 20-page booklet introduces the Versa Trak System, a flat conductor cable wiring system. The system features a high degree of flexibility, according to the brochure, which allows changes in wiring with minimal disruption of office activities. The text describes the system's installation and planning. • Thomas & Betts Corp., Raritan, N.J.

LIGHTING / A 12-page catalog displays the manufacturer's line of contemporary-style lighting, including floor lamps, hanging lamps and table units. This supplier promises to ship any of the selection of fixtures from its Flos/Artemide line within 30 days. • Atelier International Ltd., New York, N.Y.

ELECTRICAL DISTRIBUTION / A 4-page brochure details the "Integrated Multiple Power and Communications (IMPAC) electrical distribution system designed for the manufacturer's "Two-O" open-plan office system. Electrical system components are illustrated in 4-color photographs. Finishing touches, such as end-of-run caps, are also illustrated. • Panel Concepts, Inc., Santa Ana, Calif.

LIGHTING / "Lighting for the '80s: Making Less Do More" is the title of a 32-page catalog. The brochure details the "SPI" line of freestanding, portable and fixed lighting products. Four-color photographs display the lighting in a variety of applications, from offices to gyms. • McCorm-Edison Co., Elk Grove Village, Ill.

LANDSCAPE LIGHTING / A catalog of outdoor lighting provides a how-to guide to lighting techniques for various applications. Photometrics for individual models are charted. The products featured include incandescent, fluorescent and mercury vapor fixtures. • Kin Lighting, City of Industry, Calif.

For more information, circle item numbers on Reader Service Inquiry Card, pages 5, 7, 12.
New Roller Glide™
A much better way to hang heavy draperies.

Kenney has designed a new, adjustable traverse rod, creating a fine, precision mechanism that’s strong and easy to operate. This new telescoping traverse rod is engineered like an Alpine ski lift. It gives perfect support, even with the heaviest energy-saving draperies, and you get straight drapery hanging, with no header toe-in. You also eliminate the cost and bother of cut-to-fit custom ordering. The new Roller Glide rods come in six size ranges, accommodating drapery widths from 30” to 300”.

Here are some of the improvements we’ve made—and what they mean to you:

- We use acetal plastic (environmentally inert) rollers, not slides. The rollers ride on edge rolled steel, not in channels that clog with dust.
- All carriers have swivel action, allowing draperies to fall naturally.
- Eliminates flatspot (dead space) when draperies are fully open.
- Completely enclosed tube. Looks good front and back, making rod usable for room dividers, too.
- Cords pull back to the wall, eliminating downward pressure directly from the rod.
- Universal mounting brackets mount on right or left side.


Circle 1078 on inquiry card

Patent Number 4,276,920

VENTARAMA®
the plastic-domed ventilating skylight

Sky lighting is the way to create beautiful light-filled rooms, to add new dimension and greater flexibility to exterior and exterior designs. VENTARAMA SKYLIGHTS OFFER PASSIVE SOLAR HEAT, NATURAL AIR CONDITIONING, and can be used in any climate on any roof.

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Many of the new products for 1982 will be exhibited in the following events.

November

December

January

February
7-11 International Spring Fair, at the National Exhibition Centre, Birmingham, England. Contact: Condor Public Relations Limited, 299 Oxford St., London W1R 1LA.

March
19-21 West Week, at the Pacific Design Center, Los Angeles. Contact: James Goodwin, West Week, Pacific Design Center, 8687 Melrose, Los Angeles, Calif. 90069.

May

June

June
9-12 Pacific Coast Builders Conference, sponsored by the California Building Industry Association; to be held in San Francisco. Contact: California Building Industry Association, 1225 8th St., Suite 350, Sacramento, Calif. 95814.

June

June

July

Dryvit System, Inc.

Retrofit over a brick substrate.

In the first Alabama Bank retrofit (facing page), the problem of a crumbling brick facade presented itself. After the brick was given a thorough chemical cleaning, the Dryvit Insulation Board was affixed directly to the brick substrate. This application has been used successfully in many retrofits with Dryvit Outsulation. Look for Dryvit in the General Building File of Sweets Catalog under Section 7.13/Dr.

Wall section detail below:

1. Dryvit Insulation Board: expanded polystyrene with optimum insulating characteristics. Board sizes, thicknesses, and shapes are available as required by design.
2. Dryvit Reinforcing Mesh: specially woven and treated fiberglass fabric is embedded in the Primus coating to prevent surface cracking.
3. Dryvit Primus /Adhesive: Dryvit's unique plaster material mixed with Type I Portland Cement is used to adhere Dryvit Insulation Board to the approved substrate. It is also used to embed Dryvit Reinforcing Mesh on the face of the board.
4. Dryvit Quarzputz Finish: one of four finishes available. This synthetic plaster material has high bond strength, integral color and an applied texture that provides a weather-proof jointless exterior surface.
5. Existing Brick (chemically cleaned)
6. 1/4" Exterior Gyp. Sheathing
7. 2½" Steel Studs @ 16" O.C.

Dryvit System, Inc.
420 Lincoln Avenue, Warwick, R.I. 02888
(401) 633-7150

Plant Locations:
Warwick, RI; Tulsa, OK; Columbus, GA

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