CLASSIC PERFORMANCE.

When architects and designers review the performance of the Perma Groove panel, our excellent hanging strength is consistently applauded. That's because we've orchestrated a number of elements...such as premium materials, sound experience and skilled craftsmanship...in an effort to offer a quality slatwall system whose classic performance will bring rave reviews for you.

Perma Groove = 21365 Hamburg Ave., P.O. Box 1016 = Lakeville, MN 55044-1016 = 612/469-4961 FAX 612/469-4972

Circle No. 513 on Reader Service Card
Information Sources Issue Editor in charge: Thomas Fisher

2 Professional Information Index
An index of the issue by subject, cross-referenced to specific information sources.

5 Manufacturers’ Literature Index
An alphabetical index of manufacturers with literature in the issue.

Professional Information

7 Design
Sources of information on accessibility, codes, correctional facilities, cultural, daylighting, educational, elderly design, energy conservation, fire protection, health care, history/theory, housing, industrial, offices/office buildings, presentations, preservation and restoration, recreational, religious, restaurant and hotel design, retail, security, seismic design, and transportation.

13 Techncis
Sources of information on brick, building science, ceilings, ceramic tile, concrete, curtain walls, doors and hardware, elevators/escalators/stairs, flooring, foundations, furniture, glass, indoor air quality, insulation, lighting, masonry, material standards, metals, paints/coatings/wallcoverings, plastics, roofing, sealants and joints, waterproofing, windows, and wood.

18 Allied Disciplines
Sources of information on acoustics, engineering, environmental psychology, graphic design, heating/ventilating/air conditioning, industrial design, interior design, landscape architecture, photography, planning, and urban design.

21 Practice
Sources of information on computers, construction management, design and planning education, facility management, law, marketing, practice management, project management, registration, and specifications.

23 Reference and Recognition
Sources of information on awards programs, bibliographies, book publishers, design competitions, general information.

Manufacturers’ Literature

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This issue could not have been published without the help of the following two people who were not on the regular P/A staff: Claire Belasco, Jennifer Sisca
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HOW TO USE THIS ISSUE

If you are interested in a particular subject:

Subject headings are listed alphabetically in the issue under five main categories: Practice, Design, Allied Disciplines, Technics, and Reference and Recognition.

The professional information index (page 2) provides cross-references and page numbers for each subject. This index also lists the reader service numbers of all subject-related manufacturer's literature and all associations found in the issue.

About the Five Categories of Professional Information:

DESIGN covers building types (such as health care or correctional facilities) and design considerations (such as accessibility or energy conservation). It also includes a History/Theory section which lists reference books in each area.

TECHNICS provides sources of information on building materials and technical systems.

PRACTICE covers the business side of architectural practice including education and registration, law, management, and computers.

ALLIED DISCIPLINES contains information on organizations within professions that are allied with architecture (e.g. acoustics, interior design, urban design).

REFERENCE AND RECOGNITION supplies the sources of general architectural information that can help locate further information on any architectural subject. Book publishers provide useful phone numbers and addresses to help locate works listed elsewhere in the issue. This section also lists design competitions, awards programs, and architectural and consumer publications.

Categories within each category are listed as follows:

Associations
- name
- address
- phone
- comments

Conferences
- with date (1991 unless otherwise specified) and location

References
- magazine articles in major architectural publications
- books

A note on publishers of listed references:
- If the reference has been published by an association listed in this issue, the acronym of the association follows the title of the reference;
- If the reference has been published by a publisher mentioned only once in this issue, the address and phone number of the publisher are listed with the reference itself;
- If the reference has been published by a publisher mentioned more than once in this issue, the name, address, and phone number of the publisher appear in the Reference and Recognition section under the Book Publishers category.
Design

Accessibility, codes, correctional, cultural, daylighting, educational, elderly design, energy conservation, fire protection, health care, history/theory, industrial, office, presentations, preservation/restoration, recreational, religious, restaurant & hotel design, retail, security, seismic, transportation.

ACCESSIBILITY

(see also Elderly Design)

Associations

American National Standards Institute (ANSI) 1430 Broadway New York, NY 10018 (212) 354-3500

Conferences Apr 15-16, Chicago, IL. Comments coordinates the development of standards for buildings and products.

Architectural and Transportation Barriers Compliance Board (ATBCB) 1111 16th St NW, Suite 501 Washington D.C. 20036-3894 (202) 653-7848

Comments seeks to ensure that buildings are accessible to and usable by disabled persons.

Barrier Free Environments (BFE) PO Box 36054 Raleigh, NC 27622 (919) 792-7823

Comments promotes accessibility in buildings.

Department of Housing and Urban Development (see Housing)

National Council on Disabilities (NCD) 800 Independence Ave SW, Suite 814 Washington, DC 20591 (202) 267-8848

Comments reviews laws and policies that affect the handicapped.

Paralyzed Veterans of America Barrier-Free Design Program (P/BDP) 801 18th St NW Washington, DC 20006 (202) 872-1800 ext. 645

Comments promotes accessibility in buildings.

Handicapped Requirements Handbook (see also Elderly Design)

Minimum Guideline and Requirements for Accessible Design, ATBCB, see above.

Modifying the Existing Campus: Building for Accessibility, S. Cotler. Association of Physical Plant Administrators, see Facility Management.

Providing Accessibility for Physically Handicapped People, ANSI, see above, 1986.


The Selective Guide on Accessible Environments for the Disabled, Department of Housing and Urban Development, see Housing.


Uniform Federal Accessibility Standards, ATBCB, see above.


CODES

(see also Elderly Design)

Associations

AIA Building Performance and Regulations Committee (AIA/PRBC) 1735 New York Ave NW Washington DC 20006 (202) 626-7448

Comments manages liaison activities for the architect with the national standards, codes, and rule-making organizations.

Building Officials and Code Administrators International (BOCA) 4051 West Flomsoo Rd Countryside Club Hills, IL 60478 (708) 799-2300

Conferences Sep 15-20, Indianapolis, IN. Comments provides a forum for the discussion of building safety regulations and promotes modern construction and fire code requirements.

Council of American Building Officials (CABO) 5203 Leesburg Pike, Suite 708 Falls Church, VA 22041 (703) 951-4533

Comments represents for the model code organizations at the national level.

International Conference of Building Officials (ICBO) 5380 South Workmen Mill Rd Whittier, CA 90601 (213) 699-0561

Comments represents for the model code organizations at the national level.

Conferences Sep 8-13, Spokane, WA. National Conference of States on Building Codes and Standards (NCSBCS) 505 Huntmar Park Dr, Ste 210 Herndon, VA 22070 (703) 437-0100

Conferences Aug 19-22, Charleston, SC. Comments serves the building code and public safety interests within the US.

National Institute of Building Sciences (NIBS) 1201 L Street NW, Suite 400 Washington, DC 20005 (202) 289-7800

Comments improves the regulation of building construction and technology.

Southern Building Code Congress International (SBCC) 900 Montclair Rd Birmingham, AL 35213 (205) 591-1853

Conferences Oct 27-31, Tampa, FL.

Comments technology of model construction codes and certifies inspectors.

References

The American National Standard for Buildings and Facilities Providing Accessibility and Usability for Physically Handicapped People, CABO, see above.

An Architect's Guide to Building Codes and Standards, AIA/PRBC, see above.


Building Code Requirements for Concrete Masonry Structures and Commentary, American Concrete Institute, see Concrete, 1986.

Building Sciences (see NIBS above): monthly.

Building Standards (see ICBO above): bi-monthly.

CABO One and Two Family Dwelling Code, CABO, see above.

CABO Model Energy Code, CABO, see above.


Directory of State Building Codes and Regulations, NCSBCS, see above.


"Green Building Code," BOCA, see above.


Journal of Code Enforcement (Harris Pond Office Park, 32 Daniel Webster Highway, Merrimack, NH 03054, (603) 891-7922): monthly.

List of Building Codes and Standards Publications, AIA/PRBC, see above, 1985.

National Building Code, BOCA, see above.


Southern Building Code, SBCC, see above.

Uniform Codes and Standards, ICBO, see above.

CORRECTIONAL FACILITIES

(see also Elderly Design)

Associations

AIA Committee on Architecture for Justice (AIA/CAJ) 1725 New York Ave NW Washington DC 20005 (202) 626-7561

Comments focus on crime prevention and security issues and the improvement of justice facilities.

American Correctional Association (ACA) 8025 Laurel Lake Court Laurel, MD 20707 (301) 206-5100

Comments can connect architects with experts on designing jails.

Community Research Association (CRA) 115 North Neil St Suite 302 Champaign, IL 61820 (217) 354-3120

Comments provides technical assistance for the planning of juvenile justice facilities.

Federal Bureau of Prisons

Facilities Development Division (FBD/FDD) 320 First St NW, Room 254 Washington, DC 20534 (202) 514-6460

Comments has a staff of architects and engineers who work on designing prisons.

National Criminal Justice Reference Service (NCJRS) P.O. Box 6050 Rockville MD 20850 (800) 851-5420

American Jails (see AIA above): bimonthly.

Architecture for Justice Exhibit Catalog (see AIA/CAJ above): annual.

Corrections, Building and SRS, see above.


Corrections Today (see ACA above): 7yr.

Criminal Justice Newsletter (see AIA/CAJ above): semi-annual.


CULTURAL FACILITIES

(see also Elderly Design)

Associations

American Association of Museums (AAM) 1225 EYE NW Suite 200 Washington, DC 20005 (202) 289-1818

Comments provides a forum for museum professionals.

U.S. Institute for Theater Technology (USITT) 10 W. 19th St. Ste 5A New York, NY 10036 (212) 365-5531

Comments provides information about the technical areas of theater architecture.

References


**DAYLIGHTING**

(See also Lighting)

**Associations**

Daylighting Network of North America (DNNA)

c/o Dr. Moji Navazh
Dept. of Architecture and Urban Planning
University of Michigan
2000 Bonisteel Blvd
Ann Arbor, MI 48109-2069

Comments: promotes natural illumination in buildings

Illuminating Engineering Society of North America (IES) (see Lighting)

Lawrence Berkeley Laboratories
Windows and Lighting Program (LBL/WLP)
1 Cyclotron Rd
Building 50, Room 3111
Berkeley, CA 94720

(415) 486-6874

Comments: researches windows, coatings, and energy efficiency. Sky simulation facility, mobile window thermal testing facility, and free software packages dealing with the use of natural light available to professionals.

**References**


DNNA Newsletter (see DNNA above): quarterly.


Daylighting Design Guidelines for Roof Glazing in Atrium Spaces, DGDA-1, American Architectural Manufacturers Association, see Curtain Walls.


"Natural Light in Museums: An Asset or Threat?" P/A, May 1990.


**EDUCATIONAL FACILITIES**

**Associations**

AIA Committee on Architecture for Education (AIA/CAE)
1375 New York Ave NW
Washington, DC 20006
(202) 626-7589

Comments provides technical assistance to architects and promotes quality design of educational facilities.

American Library Association (ALA)
50 East Huron St
Chicago, IL 60611
(312) 944-6780

Comments provides leadership for the development, promotion, and improvement of libraries.

American Association of School Administrators (AASA)
116 N. Monroe Street
Arlington, VA 22209
(703) 528-0700

Conferences June 20–22, New Haven, CT

Comments provides professional services to school administrators in the area of campus planning.

Council of Educational Facility Planners (CEFP)
641 Chatham Ln, Ste 217
Columbus, OH 43221

(614) 442-1811

Comments provides information on school facilities, asbestos, radon, and other related topics through an in-house library.


American Libraries (see ALA above): monthly.


Educational Facilities Planner (see CEFP above): bimonthly.


Newsletter (see AIA above): annual.


School and College Magazine (Penton Publishing): monthly.


**EDLERLY DESIGN**

(see also Accessibility, Health Care)

**Associations**

AIA Design for Aging Subcommittee (AIA/ DAS)
1735 New York Ave NW
Washington, DC 20006
(202) 626-7589

Comments promotes and discusses the principles of design for the elderly.

American Association of Homes for the Aging (AAHA)
1129 20th St NW, Suite 400
Washington, DC 20036
(202) 296-5969

Conferences Nov 3–7, San Francisco.

Comments deals with housing and health related facilities for the elderly.


**ENERGY CONSERVATION**

(See Daylighting)

**Associations**

American Solar Energy Society (ASES)
2400 Central Ave, Suite B1
Boulder, CO 80301
(303) 443-3130

Conference Aug 17–24, Denver, CO.

Comments represents the wind energy industry.

American Wind Energy Association (AWEA)
1730 North Lynn St, Suite 610
Arlington, VA 22209
(703) 276-8334

Comments: provides professional services to architects and promotes the use of energy conservation and renewable energy sources.

Solar Energy Industries Association (SEIA)
777 N. Capitol St NW, Ste 805
Washington, DC 20002
(202) 446-6600

Comments represents companies that make solar, thermal, and electric energy-related products.

Solar Energy Research Institute (SERI)
1617 Cole Blvd
Golden, CO 80401
(303) 749-3600

Comments: researches, develops, and tests solar technology.

Underground Space Center (see Foundations)

**Conferences**


**References**


EEBA Extra (see EEBA above): quarterly.


Energy Design Update (Center for Information Corporation, 1100 Massachusetts Ave, Washington, DC 20174, (617) 648-8700): monthly.


Department of Energy, CEI31 Building Systems Division (DOE/BSO)
1000 Independence Ave SW
Washington, DC 20585
(202) 586-9166

Comments: promotes research to advance the understanding of energy use in buildings.

Energy Efficient Buildings Association (EEBA)
c/o Howard Faulkner
U of Southern Maine, Dept of Technology
27 College Ave
Gorham, ME 04038
(207) 750-5143

Conferences Mar 21–25, Indianapolis, IN.

Energy Conservation and Appropriate Technology Assistance Service (NATAS)
PO Box 2525
Bute, MT 59702
(800) 456-2232

Comments: presents better ways to conserve energy.

National Aeronautic Council (see Climate)

Northeast Solar Energy Association (NSEA)
23 Ames St
Greenfield, MA 01301
(913) 744-6051

Comments: promotes the use of energy conservation and renewable energy sources.

Solar Energy Industries Association (SEIA)
777 N. Capitol St NW, Ste 805
Washington, DC 20002
(202) 446-6600

Comments: supports research to advance the principles of design for the elderly.
Conferences Apr 4-7, Hawaii. 
Comments represents the lodging industry. 
National Restaurant Association (NRA) 1200 17th St NW, Washington, DC 20036 (202) 331-5000, (800) 367-7636. 
Conferences May 18-22, Chicago. 
Comments promotes the ideals and interests of the food service industry. 

**RETAIL BUILDINGS** 

**Associations** 
Institute of Store Planners (ISP) 25 N. Broadway Tarrytown, NY 10591 (914) 332-1800. 
Comments promotes the profession of store planning. 
International Council of Shopping Centers (ICSC) 665 Fifth Ave New York, NY 10022 (212) 421-8181. 
Conferences May 19-24, Las Vegas, NV. 
Comments provides a networking forum for retailers and the developers and owners of shopping centers. 

**References** 

**SEISMIC** 

**Associations** 
Earthquake Engineering Research Center (EERC) University of California at Berkeley 1301 South 46th St Richmond, CA 94804 (415) 222-9554. 
Comments tests scale models of structures to determine vulnerability to earthquakes for improving seismic-resistant design. 
Earthquake Engineering Research Institute (EERI) 6431 Fairmont Ave, Suite 7 El Cerrito, CA 94530 (415) 525-3656. 
Conferences Feb 16-19, Salt Lake City, UT. Comments seeks to advance the science and practice of earthquake engineering. 
Center for National Earthquake Engineering Research (CEEER) School of Civil Engineering at Buffalo Red Jacket Quadrangle Buffalo, NY 14261 (716) 636-3391. 
Comments conducts research to mitigate earthquake damage. 
Sociological Society of America (SSA) El Cerrito Plaza Professional Building, Suite 201 El Cerrito, CA 94530 (415) 525-5474. 
Conferences Mar 25-27, San Francisco. Comments promotes the research of seismology and public safety. 
University of Michigan Earthquake Testing Lab (UMI/ETL) 4000 Plymouth 2540 CBrown Blvd Department of Civil Engineering Ann Arbor, MI 48109-2125 (734) 764-8495. Comments does seismic research. 

**References** 
Abstract journal in Earthquake Engineering, EERC, see above, 1988. 
Earthquake Spectra (see EERI above): quarterly. 
Earthquakes and Volcanoes (12201 Sunrise Valley Dr, Reston, VA 22092, (703) 783-3283): bimonthly. 
Earthquake Engineering and Structural Dynamics (Wiley & Sons Ltd, Baffins Ln, Chichester, Sussex PO19 1UD, England): 8/yr. 

**TRANSPORTATION FACILITIES** 

**Associations** 
Conferences Sep 29-Oct 3, Toronto, ON. Comments represents the transit industry and provides information. 
American Road and Transportation Builders Association (ARTBA) 500 School St SW, Washington, DC 20024 (202) 488-2722. 
Conferences May 13-17, Orlando, FL. Comments advocates federal support for transportation development programs. 
Eno Foundation for Transportation (EFT) PO Box 555, 270 Saugatuck Ave Westport, CT 06880 (203) 222-9060. 
Comments provides research and education in the area of transportation. 
Federal Railroad Administration (FRA) 400 7th St SW Washington, DC 20590 (202) 366-6881. Comments seeks to further knowledge of transportation among engineers. 
Institute of Transportation Engineers (ITE) 525 School St SW, Suite 410 Washington DC 20024 (202) 554-8650. 
Conferences Sep 22-25, Milwaukee, WI. Comments seeks to advance the science and practice of the transportation field. 
National Parking Association (NPA) 1112 16th St NW, Suite 300 Washington, DC 20036 (202) 296-4336. Comments May 19-22, Boston. Comments represents the interests of the parking industry. 
Transportation Research Board (TRB) 2101 Constitution Ave NW Washington, DC 20418 (202) 334-2954. 
Conferences Jan 12-16, Washington, DC. Comments simulates highway research and other transportation studies for Congress. 
Transportation Builder (see ARTBA above): bimonthly.
Brick, building science, ceilings, ceramic tile, concrete, curtain walls, doors & hardware, elevators/stairs, flooring, foundations, furniture, glass, indoor air quality, insulation, lighting, masonry, material standards, metals, paint & wallcovering, plastics, roofing, sealants, waterproofing, windows, wood

Technics

Building Science

References

Associations

Conferences

Brick

Conferences

Building Science

References

Building Science

References

CONCRETE

Ceramic Tile

References

Curtain Walls

References

Curtain Walls

References

Curtain Walls
Installation of Aluminum Curtain Walls, AAMA, see above.
Sealant Manual, Flat Glass Marketing Association, see Glass.

DOORS & HARDWARE

Association Builders Hardware Manufacturers Association (BHMA) 355 Lexington Ave, 17th Fl New York, NY 10017 (212) 461-6420 Comments provides hardware information.
Door and Hardware Institute (DHI) 7711 Old Springfield Rd McLean, VA 22102 (703) 556-3990 Conferences Oct 5–8, Denver.
Comments represents and educates the door and architectural hardware industry.
Steel Door Institute (SDI) (708) 480-9138 Comments provides technical information on steel door construction.

References American National Standards of Builder's Hardware, BHMA, see above.

Doors and Hardware (see DHI above): monthly.

Manufacturers Buyer's Guide, DHI, see above.


ELEVATORS/ESCALATORS/STAIRS

Associations National Association of Elevator Contractors (NAEIC) 4053 La Vista Rd, Suite 120 Tucker, GA 30084 (404) 496-1270 Conferences Oct 6–10, Miami Beach, FL.
Comments promotes the elevator industry through publications and conferences.


Elevator World (PO Box 6507, Loop Branch, Mobile, AL 36606, (205) 479-4514): monthly.


FLOORING

Associations Maple Flooring Manufacturers Association (MFMA) 60 Revere Dr, Suite 500 Northbrook, IL 60062 (708) 460-9135 Comments provides technical information about maple floors.
National Oak Flooring Manufacturers Association (NOFMA) PO Box 3069 Memphis, TN 38173-0009 (901) 526-5016 Comments sets standards and promotes the hardwood flooring industry.

National Terrazzo and Mosaic Association (NTMA) 516 Des Plaines Ave, Ste 132 Des Plaines, IL 60018 (708) 655-7744 Comments provides information about the terrazzo and mosaic industry.
National Wood Flooring Association (NWFA) 11046 Manchester Rd St. Louis, MO 63122 (314) 422-4356 Comments provides seminars & workshops for all segments of wood flooring industry.
Resilient Floor Covering Institute (RFCl) 906 Hugnerrford Dr, Suite 12B Rockville, MD 20850 (301) 546-8580 Comments develops technical information on the resilient flooring industry.
Wood and Synthetic Flooring Institute (WSFI) 4430 North Harrison St, Ste 242C Hillside, IL 60162 (708) 449-2933 Comments provides information about commercial and industrial floors.

"Floor Covering News (MacLean-Hunter, Ltd): 10yr.
Hardwood Floors (see NFWA above): monthly.
Maintenance Guide for Wood Conant Carpet, WB, see above.
Recommended Work Procedures for Resilient Floor Coverings, RFCl, see above.
Self-Adhering Resilient Tile, RFCl, see above.
Solid Vinyl Floor Tile, RFCl, see above.
Vinyl Composition Tile, RFCl, see above.
Vinyl Composition Tile, RFCl, see above.
"Wood Flooring," Traditional Building, Jan 1990.

FOUNTATIONS

Associations Underground Space Center University of Minnesota (USC/UMN) 500 Pillsbury Drive SE, Rm 790 Minneapolis, MN 55455 (612) 624-0066 Comments conducts research on foundation technology.

Concrete Basements for Residential and Light Building Construction, IS208, Portland Cement Association, see Concrete, 1980.
Concrete Floors on Ground, 2nd ed., EB075, Portland Cement Association, see Concrete, 1983.
Design and Construction of Concrete Slabs on Grade, SCM 11. American Concrete Institute, see Concrete, 1986.
Frost Protected Shallow Foundations for Houses and other Heavy Structures, National Association of Home Builders, see Housing.
Guide to Residential Cast-in-Place Concrete Construction, 332-R-94, American Concrete Institute, see Concrete, 1984.
Joint Construction on Walls Below Ground, CR005, Portland Cement Association, see Concrete.

"Slabs and Floors," Concrete International/ American Concrete Institute, see Concrete, June 1990.

GLASS

Associations Flat Glass Marketing Association (FGMA) 3310 Harrison St Topeka, KS 66611 (913) 266-7013 Comments represents industry and provides technical information about glass.
Glass Tempering Association (GTA) 3310 Harrison St Topeka, KS 66611 (913) 266-7064 Comments architectural community about the proper use of tempered glass.
Laminators Safety Glass Association (LSGA) 3310 Harrison St Topeka, KS 66611 (913) 266-7014 Comments develops quality and safety standards for laminated glass.
National Glass Association (NAGA) 8200 Greensboro Dr, Suite 302 McLean, VA 22102 (703) 442-4890 Comments promotes the development of the stained and decorative glass craft.

Conferences Glass Week '91, Feb 17–21, Tucson, AZ.
(see Material Standards Manual, GTA, see above).

Engineering Standards Manual, GTA, see above.
"Fenestration," Chapter 27, 1989
Fundamentals Handbook, American Society of Heating, Refrigerating, and Air Conditioning Engineers, see Heating/ Ventilating/ Air Conditioning.
Glazing Manual, FGMA, see above.
Glazing Reference Guides, NGA, see above.
Practice for Determining the Minimum Thickness of Tempered Glass Required to Resist a Specified Load, E1300–89, American Society for Testing and Materials, see Material Standards Manual, FGMA, see above.
Sealant Manual, FGMA, see above.
Technical Manual for Acoustical Glass, SIGMA, see above.
Voluntary Guidelines for Sloped Glazing of Rigidly Attached Insulated Glass Units, SIGMA, see above.
Voluntary Test Methods and Voluntary Performance Quality Assurance Criteria for Spacers for Sealed Insulating Glass Units, SIGMA, see above.
Window 3.1 PC Program, Bossit (800) 525-5600.

INDOOR AIR QUALITY

Associations American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) (see Heating, Ventilating, and Air-Conditioning Engineering).
Asbestos Information Association of North America (AIANA) 1745 Jefferson Davis Hwy, Ste 509 Arlington, VA 22202 (703) 979-9156 Comments provides public information concerning asbestos.
Environmental Protection Agency (EPA) Washington, DC 20515 (202) 475-9605

Conferences Air & Energy Congress, June 12–13, Boston, MA (call (404) 447-5085).


**INSULATION**

**Associations**

Cellulose Insulation Standards Enforcement Program (CISEP)

c/o Don Lea
3151 Talbot Tower
Dayton, OH 45492
(513) 222-1014

Center for Insulation Technology (CIT)

Drexel University
Mechanical Engineering and Mechanics Department
Philadelphia, PA 19104
(215) 895-1855

Comments provides information to the industry and building communities.

Exterior Insulation Manufacturers Association (EIMA)

30 Holley St
Wakefield, RI 02879
(401) 782-5677

Comments conducts research and disseminates information about exterior insulation.

Insulation Manufacturers Association (IMMA)

1402 King St
Alexandria, VA 22314
(703) 684-0098

Comments publishes technical information about insulation products manufactured by association members.

Polyisocyanurate Insulation Manufacturers Association (PIMA)

1001 Pennsylvania Ave NW
Washington, DC 20004
(202) 296-2709

Comments conducts research and disseminates technical information about polyisocyanurate insulation products.

**References**

Parliment Institute (PI)

88 New Dorp Plaza
New York, NY 10018
(303) 935-7650

National Lime Association (NLA)

2619 Spruce St
Arlington, VA 22201
(703) 939-9700

Comments directs inquiries to the National Lime Association.

Society of the Plastics Industry (SPI)

52 Executive Park South
Washington, DC 20004
(202) 371-5200

Polyisocyanurate Insulation Manufacturers Association (PIMA)

1001 Pennsylvania Ave NW
Washington, DC 20004
(202) 296-2709

Comments provides information to the industry and building communities.

**MATERIAL STANDARDS**

American National Standards Institute (ANSI)

450 Broadway
New York, NY 10018
(212) 354-5300

Comments provides information to the industry and building communities.

Factory Mutual Research Corp


Underwriters Laboratories (UL)

333 Pfingsten Rd
Northbrook, IL 60062
(708) 279-2700

Comments conducts testing for public safety.

Underwriters Laboratories of Canada

7 Conr Road
Saskatoon ONN 13A 3A9, Canada (413) 797-3611

Comments provides standards for the testing of materials.

Underwriters Laboratories of Canada (UL)

Factory Mutual Research Corp


Underwriters Laboratories (UL)

333 Pfingsten Rd
Northbrook, IL 60062
(708) 279-2700

Comments provides standards for the testing of materials.

**MASONRY**

American Society of Heating, Refrigerating, and Air Conditioning Engineers, see Heating, Ventilating, and Air-Conditioning Engineers.

Aberdeen Group, see Publishers.

American Standards Association (AISI)

30 Holley St
Wakefield, RI 02879
(401) 782-5677

Comments directs inquiries to the American Standards Association.

American Society for Testing and Materials (ASTM)

1916 Race St
Philadelphia, PA 19105
(215) 299-5400

Comments publishes standards for the testing of materials.

**LIGHTING**

American Society for Testing and Materials (ASTM)

1916 Race St
Philadelphia, PA 19105
(215) 299-5400

Comments directs inquiries to the American Society for Testing and Materials.

Underwriters Laboratories (UL)

333 Pfingsten Rd
Northbrook, IL 60062
(708) 279-2700

Comments provides standards for the testing of materials.

Underwriters Laboratories of Canada (UL)

7 Conr Road
Saskatoon ONN 13A 3A9, Canada (413) 797-3611

Comments provides standards for the testing of materials.

Underwriters Laboratories (UL)

333 Pfingsten Rd
Northbrook, IL 60062
(708) 279-2700

Comments provides standards for the testing of materials.

**LITIGATION**

American Society for Testing and Materials (ASTM)

1916 Race St
Philadelphia, PA 19105
(215) 299-5400

Comments publishes standards for the testing of materials.

Underwriters Laboratories of Canada (UL)

7 Conr Road
Saskatoon ONN 13A 3A9, Canada (413) 797-3611

Comments provides standards for the testing of materials.

Underwriters Laboratories (UL)

333 Pfingsten Rd
Northbrook, IL 60062
(708) 279-2700

Comments provides standards for the testing of materials.

Underwriters Laboratories of Canada (UL)

7 Conr Road
Saskatoon ONN 13A 3A9, Canada (413) 797-3611

Comments provides standards for the testing of materials.
# METALS

## Associations
- **American Iron and Steel Institute (AISI)**
  - Address: 1133 15Th St NW, Suite 300, Washington, DC 20005
  - Phone: (202) 462-7100
  - Comments: researches and promotes the use of structural steel.
- **Chicago: Steel Deck Institute (SDI)**
  - Address: 104 48Th Ave North, Ste A, New York, NY 10017
  - Phone: (212) 661-4261
  - Comments: promotes the use of steel joist industry.

## Conferences
- **American Iron and Steel Institute (AISI)**
  - Meetings: Apr 14-19, San Antonio, TX.
- **Chicago: Steel Deck Institute (SDI)**
  - Meetings: May 15-17, Tucson, AZ.
  - Oct 21-23, San Francisco.

## References
- **Design Manual for Composite Beams and Diaphragm Design Manual**, Copper and Common Sense, Revere Copper Products, 1982
- **Steel Deck Design Manual**, Metal Architecture and Engineering, 1988
- **Wallcoverings (Publishing Dynamics)**, monthly.

# PLASTICS

## Associations
- **Copper and Common Sense, Revere Copper Products, 1982**
- **Design Manual for Composite Beams and Diaphragm Design Manual**, Copper and Common Sense, Revere Copper Products, 1982
- **Steel Deck Design Manual**, Metal Architecture and Engineering, 1988
- **Wallcoverings (Publishing Dynamics)**, monthly.

## Conferences
- **International Symposium on Roofing Technology**, Apr 17-19, Montreal (contact National Roofing Contractors Association in New Orleans).

## References
- **Plastics**
  - High F
  - Plastic

# PAINTS, COATINGS, AND WALLCOVERING

## Associations
- **Architectural Spray Coaters Association (ASCA)**
  - Address: 230 W. Wells, Ste 311, Milwaukee, WI 53203
  - Phone: (414) 273-5100
  - Comments: promotes the use of paint and finishes for wood products.
- **National Association of Decorative Architectural Finishes (NADAF)**
  - Address: 112 North Alfred St, Alexandria, VA 22314
  - Phone: (703) 836-6504
  - Comments: publishes information on coatings and finishes for masonry products.
- **National Paint and Coatings Association (NPMA)**
  - Address: 1400 K St NW, Washington, DC 20005
  - Phone: (202) 462-6272
  - Comments: promotes the use of coatings and finishes for masonry products.

## Conferences
- **Annual Conference**, Apr 11-15, San Antonio, TX.
  - Conference address: comments allocation.
- **Conferences**, April 14-19, San Antonio, TX.

## References
- **National Association of Architectural Finishes (NADAF)**
  - Address: 112 North Alfred St, Alexandria, VA 22314
  - Phone: (703) 836-6504

# ROOFING

## Associations
- **National Roofing Contractors Association (NRCA)**
  - Address: 104 Wilmot Rd, Suite 201, Deerfield, IL 60015
  - Phone: (708) 540-8820
  - Comments: provides technical information on roofing products.
- **Single Ply Roofing Institute (SPRI)**
  - Address: 1133 15Th St NW, Suite 300, Washington, DC 20005
  - Phone: (202) 462-1358
  - Comments: publishes technical information on single-ply roofing systems.

## Conferences
- **International Symposium on Roofing Technology**, Apr 17-19, Montreal (contact National Roofing Contractors Association in New Orleans).

## References
- **"Air Barriers and Vapor Barriers: Are They of Any Use in Low-Slope Roofs?"**, P.A. Aug 1990
- **Approval Guide** (see Factory Mutual Research Corporation in see Fire Protection): annual.


Cracks, Movements, and Joints in Buildings, 15th ed, National Research Council Canada, see Building Science.


Guide to Joint Sealants for Concrete Structures, 50th ed, American Concrete Institute, see Concrete.

Science and Technology of Glazing Systems, STP 1054, American Society for Testing and Materials, see Material Standards.


Sealants: The Professionals Guide, Sealant, Waterproofing and Restoration Institute, see Waterproofing.

Voluntary Specifications and Test Methods for Sealants, 90-86, American Architectural Manufacturers Association, see Curtain Walls.

W A T E R P R O O F I N G

Associations
National Roofing Contractors Association (see Roofing).
Sealant, Waterproofing and Restoration Institute (SWRI)
3101 Broadway, Suite 585
Kansas City, MO 64111
(816) 561-8230
Comments provides forum for waterproofing contractors and manufacturers.

References
The Applicator (see SWRI above): quarterly.
Clear-Water-Repellent Coatings, SWRI, see above.
Building Deck Waterproofing, STP 1084, American Society for Testing and Materials, see Material Standards.
Building Foundation Design Handbook, K. Labs et al, Underground Space Center, see Foundations.
Dampproofing, SpecGUIDE 07150, Construction Specifications Institute, see Specifications.
A Guide to the Use of Waterproofing, Dampproofing, Protective and Decorative Barrier Systems for Concrete, 515.1R, American Concrete Institute, see Concrete.
Waterproofing and Dampproofing Concrete, 4470, Aberdeen Group, see Publishers.


W O O D

Associations
American Architectural Manufacturers Association (See Curtain Walls)
Lawrence Berkeley Laboratory Windows and Daylighting Group (See Daylighting)

National Fenestration Rating Council (NFRC)
982 Wayne Ave, Ste 750
Silver Springs, MD 20910
Comments develops rating systems for fenestration products and coordinates labeling activities.

National Wood Window & Door Association (NWWDIA)
1400 East Third Ave
Des Plaines, IL 60018
(708) 299-5200
Conferences Feb 16-20, Naples, FL; Aug 3-7, Oakbrook, IL
Comments promotes products and sets standards for the industry.

Steel Windows Institute (SWI)
1230 Keith Blvd
1621 Euclid St
Cleveland, OH 44115
(216) 241-7333
Comments promotes steel windows.

Voluntary Low and Door Institute (VWDI)
355 Lexington Ave
New York, NY 10017
(212) 351-5400
Conferences Mar 10-13, San Diego, CA.
Comments develops standards and sponsors certification programs.

References
AWNSHADE 1.0 PC Program (Florida Solar Energy Center, Cape Canaveral (407) 783-0000)
Specifiers Guide to Wood Windows and Doors, NWWDIA, see above.
SUNPATCH PC Program, MS-DOS (Architectural Science, Box 15425, San Luis Obispo, CA 93406).
Voluntary Specification for Field Testing of Windows and Sliding Glass Doors, American Architectural Manufacturers Association, see Curtain Walls.
Voluntary Specifications for PVC Prime Windows and Sliding Glass Doors, 101Y-86, American architectural manufacturers association, see Curtain Walls.
The Window Handbook: Successful Strategies for Rehabilitation Windows in Historic Buildings, (Center for Architectural Conservation, Georgia Tech, Box 95402, Atlanta, GA 30337).

Wood

Associations
American Institute of Timber Construction (AITC)
11818 SE Mill Plain Blvd, Ste 415
Vancouver, WA 98684-5092
(206) 254-9132
Comments develops technical standards and promotes engineered glue-laminated timber.

American Lumber Standards Committee (ALSC)
PO Box 210
Germantown, MD 20872-0210
(301) 979-1700
Conferences Nov 15, 1990, Seattle, WA.
Comments writes lumber standards.

American Plywood Association (APA)
PO Box 11700
Tacoma, WA 98411
(206) 565-6600
Comments promotes plywood use and technical information.

American Wood Council (AWC)
1250 Connecticut Ave NW, Suite 230
Washington, DC 20036
(202) 835-1505
Comments promotes the use of wood in construction.

American Wood Preservers Association (AHPA)
PO Box 849
Stevensville, MD 21666
(301) 649-1463
Conferences Apr 28-May 1, Seattle, WA.
Comments provides a forum for all segments of the industry.

American Wood Preservers Bureau (AWPB)
515 Enfrente Dr, Suite 200
Novato, CA 94949
(415) 382-0642
Comments promotes the use of redwood lumber and provides specifications.

Cedar Shake and Shingle Bureau (CSSB)
415 Enfrente Dr, NE, Suite 275
Bellevue, WA 98004
(206) 453-1332
Conferences Oct 4-6, Victoria, BC.
Comments promotes the use and quality control of shakes and shingles.

Fine Hardwood Veneer Association (FHVA)
5605 West Raymond St, Suite O
Indianapolis, IN 46211
(317) 244-3312
Comments develops markets for hardwood veneer and provides veneer samples.

Hardwood Plywood Manufacturers Association (HPMA)
PO Box 2789
Reston, VA 22090
(703) 453-2900
Conferences Apr 16-20, Seattle, WA; Oct 23-25, Nashville, TN.
Comments promotes the use of hardwood plywood, glue bond, and veneer.

Institute of Wood Research (IWR)
Michigan Tech University
School of Forestry and Wood Products
1400 Townsend Dr
Houghton, MN 49931
(906) 487-2464
Comments develops new building and chemical products for wood applications.

National Forest Products Association (NFPA)
1250 Connecticut Ave NW, Suite 200
Washington, DC 20036
(202) 463-2700
Conferences Nov 11-14, Seattle, WA.
Comments provides technical standards and research for the hardwood industry.

National Hardwood Lumber Association (NHLA)
PO Box 34518
Memphis, TN 38114-0518
(901) 377-1818
Conferences Sep 30-Oct 2, San Francisco.
Comments inspect hardwood products.

American Particle Board Council (APB)
1515 Premiere Ct
Gatherburg, MD, 20879
(301) 670-6004
Southern Forest Products Association (SFPA)
PO Box 52468
New Orleans, LA 70172
(504) 443-4466
U.S. Forest Products Laboratory (USFPL)
1 Gifford Pinchot Dr
Madison, WI 53707
(608) 231-9200
Comments conducts research on the use of wood products.

Western Wood Products Association (WWPA)
Yeou Building
5th South West 5th Ave
Portland, OR 97204
(503) 224-3930
Comments conducts research and seminars for architects and specifiers.

Wood Materials & Engineering Laboratory (WMEEL)
Washington State University
Pullman, WA 99164-1806
(509) 399-4519
Comments conducts research on wood.

Wood Products Information Center
World Forest Institute (PIC/WF)
4035 S. W. Canyon Road
Portland, OR 97221
(503) 228-1367
Comments conducts research for the hardwood industry.

AITC-117 Design—Standard Specifications for Structural Glued-Laminated Timber of Southern Pine Species, American National Standard for Hardwood and Decorative Plywood, HPMA, see above.
Architectural Flashing, AWI, see above.
Architectural Woodwork Quality Standards, Guide Specifications, and Quality Certification Program, AWI, see above.
Conforming Wood Design, NFPA, see above.
Design Solutions, see (AWI above): quarterly.
Dimensional Stability, 0601/TG, WPWA, see above.
Fine Hardwood Selectors, FHVA, see above.
1990 Source Book, AWI, see above.
Laminated Hardwood Flooring Standard, HPMA, see above.
Manual for Wood Frame Construction, WA Codes, see above.
National Design Specification for Wood Construction, NFPA, see above.
Southern species of Southern pine (SWA), see above.
Southern Pine Maximum Spans for Joists and Rafters, NFPA, see above, 1986.
Southern Pine Use Guide, SPMC, see above.
Southern Pine Use Guide, SPMC, see above.

P/A Annual Information Sources, 1990-1991

17
Allied Disciplines

Acoustics, engineering, environmental psychology, graphic design, HVAC, industrial design, interior design, landscape architecture, photography, planning, urban design

ACOUSTICS

Associations
Acoustical Society of America (ASA)
500 Sunnyside Blvd
Woodbury, NY 11797
(516) 549-7800, ext. 481
Conferences Apr 29-May 3, Baltimore, MD; Nov 4-8, Houston, TX.
Comments supports practical applications of acoustics.
National Council of Acoustical Consultants (NCAC)
830 Morris-Essex Turnpike
Summit, NJ 07901
(201) 379-0701
Comments serves the needs of acoustical consultants.

References
Directory of Acoustical Consultants, NCAC, see above.
Journal of the Acoustical Society of America (see ASA above): monthly.
NCAC Newsletter (see NCAC above): quarterly.

ENGINEERING

Associations
American Association of Engineering Societies (AAES)
1111 19th St NW, Ste 608
Washington, DC 20036–3609
(202) 296-2237
Comments seeks to advance the knowledge, understanding and practice of engineering in the public interest.
American Consulting Engineers Council (ACEC)
1015 15th St NW
Washington, DC 20005
(202) 347-7474
Conferences May 19–23, Baltimore, MD.
Comments aids engineers in private practice.
American Society of Civil Engineers (ASCE)
345 East 47 St
New York, NY 10017
(212) 705-7496
Comments trains and educates engineers to improve and develop technology.
American Society of Mechanical Engineers (ASME)
345 East 47 St
New York, NY 10017
(212) 705-7722
Conferences Dec 1–6, Atlanta.
Comments educates mechanical engineers on technical developments through publications and conferences.
Applied Technology Council (ATC)
3 Twin Dolphin Dr, Suite 275
Redwood City, CA 94065
(415) 595-1542
Comments assists the design practitioner in structural engineering and related fields.
Association of Environmental Engineers (see Energy Conservation)
Canadian Council of Professional Engineers
116 Albert St, Suite 401
Ottawa, ONT, Canada K1P 5G3
(613) 252-2476
Comments represents professional engineers and assists them in coordinating their activities.
Canadian Society for Civil, Electrical, and Mechanical Engineering (CSCE, CSEE, and CSEM)
Engineering Institute of Canada
2050 Mansfield St, Ste 700
Montreal H3A 1Z2, Canada
(514) 492-8121
Comments serves as an umbrella organization for the engineering societies listed above.
Engineering Information Center (EIC)
345 East 47 St
New York, NY 10017
(212) 705-7600

Engineering Societies Library (ESL)
345 East 47 St
New York, NY 10017
(212) 705-7611
National Society of Architectural Engineering (NSAE)
PO Box 305
Lawrence, KN 66044
(915) 843-7000

Comments seeks to provide a forum for the advancement of architectural engineering.

Environmental Engineering

Associations
Environmental Engineering Research Institute (EERI)
130 Albert Dr, Suite 275
Woodbury, NY 11797
(516) 379-0708
Comments serves as an organization of communication designers that stresses dialogue among the allied design disciplines.
American Institute of Graphic Arts (AIGA)
1059 Third Ave
New York, NY 10022
(212) 994-0813
Comments promotes excellence in and the advancement of the graphic design profession.

References
Architecture and Behavior (Subscriptions: George Washington University, Old Post Road, Brookfield, VT 05036): monthly.
Bulletin (see HFS above): monthly.
Color Research and Application (Wiley): bi-monthly.
Design Research News (see EDRA above): quarterly.
Human Factors (see HFS above): bi-monthly.
Environmental Design Research: How To Do It and How To Apply It, Robert Wehrli. Wiley, 1986.

Environment and Behavior

Comments explores and communicates psychology of color and color-related trends.

ENVIRONMENTAL PSYCHOLOGY

Associations
Environmental Design Research Association (EDRA)
PO Box 24403
Oklahoma City, OK 73124–0083
(405) 232-2655
Conferences Mar 12–15, Oaxtepec, Mexico.
Comments seeks to improve the quality of human environments through research-based design.
Human Factors Society (HFS)
Box 1369
Santa Monica, CA 90406
(213) 994-1811
Conferences Sep 2–6, San Francisco.
Comments society of psychologists, engineers, and industrial designers fitting people to the tools or environments they use.

GraPhIC dEsIGN

Associations
American Center for Design (ACD)
253 E. Ontario, Suite 500
Chicago, IL 60611
(312) 787-2018
Comments an organization of communication designers that stresses dialogue among the allied design disciplines.
American Institute of Graphic Arts (AIGA)
1059 Third Ave
New York, NY 10022
(212) 994-0813
Comments promotes excellence in and the advancement of the graphic design profession.

References
Pantone Color Institute (PCI)
480 Meadow Lane
Carlstadt, NJ 07072
(201) 935-5501
Comments explores and communicates psychology of color and color-related trends.

Environmental Design and Research Association (EDRA)
PO Box 24403
Oklahoma City, OK 73124–0083
(405) 232-2655
Conferences Mar 12–15, Oaxtepec, Mexico.
Comments seeks to improve the quality of human environments through research-based design.
Human Factors Society (HFS)
Box 1369
Santa Monica, CA 90406
(213) 994-1811
Conferences Sep 2–6, San Francisco.
Comments society of psychologists, engineers, and industrial designers fitting people to the tools or environments they use.
**INDUSTRIAL DESIGN**

**Associations**

Industrial Designers Society of America (IDSA)  
PO Box 19126  
Washington, DC 20006  
(202) 944-2920  
Comments: Provides information about interior designers who specialize in commercial and institutional design.

**Conferences**

Conferences  
June 11–14, Chicago.  
International Society of Interior Designers (ISID)  
439 South Spring St, Ste 1014  
Los Angeles, CA 90013  
(213) 620-4240  
Comments: Provides information about interior designers.

**Landscaping**

American Society of Landscape Architects (ASLA)  
4401 Connecticut Ave NW, 5th floor  
Washington, DC 20008  
(202) 686-2752  
Comments: Provides information about landscape architects across the U.S. and promotes education in the profession.

**References**

**ASID Report** (see ASID above): 5yr.

**Architectural Digest** (Knapp Communications)  
104 5th Ave, New York, NY 10011  
(212) 645-0867: monthly.

**Architects' Resource Directory**  

**Building Research Establishment** (BRE)  
PO Box 19126  
Washington, DC 20006  
(202) 944-2920  
Comments: Provides information about interior designers.

**Business Publications Ltd.**  
PO Box 19126  
Washington, DC 20006  
(212) 645-0867: monthly.

**Canadian Society of Landscape Architects** (CSLA)  
PO Box 870, Station B  
Ottawa, ONT K1P 5P1, Canada  
(613) 322-3422  
Comments: Provides services to landscape architects across the U.S. and promotes education in the profession.

**Conference Payer Institute (CPI)**  
PO Box 781  
Herndon, Va 22070  
(703) 435-4900  
Comments: Provides information about golf course architects.

**Full Design Conference with Designer**  
October 10–12, New York, NY (ID-  
Golf Course Architecture): 5/yr.  
Comments: Provides information about golf course architects for the general public.

**IDEA International Interior Design Education Conference**  

**International Interior Design**  
May 19–23, London, England (call for information:  
207-725-8006).

**NECGO**  
June 11–14, Chicago (Merchant-  
dise Mart, Chicago, IL (312) 527-7600),  
Midweek, Mar 29–30, Hollywood, CA  
(213) 657-0800.

**Landscape Architecture**  
(AMCA)  
50 West University Dr  
Arlington Heights, IL 60004  
(312) 934-0125  
Comments: Provides standards for air movement and controls.

**American Society of Landscape Architects (ASLA)**  
PO Box 870, Station B  
Ottawa, ONT K1P 5P1, Canada  
(613) 322-3422  
Comments: Provides services to landscape architects across the U.S. and promotes education in the profession.

**Architectural Sites of Interest**  

**Building Research Establishment** (BRE)  
PO Box 19126  
Washington, DC 20006  
(202) 944-2920  
Comments: Provides information about interior designers.

**Canadian Society of Landscape Architects** (CSLA)  
PO Box 870, Station B  
Ottawa, ONT K1P 5P1, Canada  
(613) 322-3422  
Comments: Provides services to landscape architects across the U.S. and promotes education in the profession.
COMPUTERS

Associations
- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)

References

Computers, construction management, education, facility management, law, marketing, practice management, project management, registration, specifications

CONSTRUCTION MANAGEMENT

Associations
- Construction Management Association of America (CMAA)
- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)

REFERENCES
- Building and Remodeling Index (BRI, PO Box 7466, Portland, OR 97207)
- CM Contract Documents, CMAA, see above.
- Construction Specifications Institute (CSI)
- American Association of State and Local Government (AASG)

CONSTRUCTION MANAGEMENT

Associations
- Construction Management Association of America (CMAA)
- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)

REFERENCES
- Building and Remodeling Index (BRI, PO Box 7466, Portland, OR 97207)
- CM Contract Documents, CMAA, see above.
- Construction Specifications Institute (CSI)
- American Association of State and Local Government (AASG)

CONSTRUCTION MANAGEMENT

Associations
- Construction Management Association of America (CMAA)
- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)

REFERENCES
- Building and Remodeling Index (BRI, PO Box 7466, Portland, OR 97207)
- CM Contract Documents, CMAA, see above.
- Construction Specifications Institute (CSI)
- American Association of State and Local Government (AASG)
**Marketing**

(see also Practice Management)

**Associations**
Society for Marketing Professional Services
99 Canal Center Plaza, Ste 320
Alexandria, VA 22314
(703) 545-6117
Conferences Sep 3–6, Washington, DC. Comments: represents marketing people in the architecture and engineering fields.

**Marketing Services**


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


**Marketing Survey,** Architectural Record, Jan, Feb 1990.


Bibliographies

AIA Bibliographies
American Institute of Architects Library
1735 New York Ave NW
Washington, DC 20006
(202) 682-7493
Comments: list of architectural bibliographies can be obtained from the AIA Library.

Art Bibliographies Modern (ABC-Clio, Riverside Campus, Santa Barbara, CA 93150-4597), semi-annual.

Bibliographic Guide to Art and Architecture
(GK Fall and Co, 70 Lincoln St, Boston, MA 02111; annual)

Vance Bibliographies
122 N. Charter St.
PO Box 220
Monticello, IL 61856
(217) 762-5831
Comments: list of architectural bibliographies available upon request.

Book Publishers

AIA Press
1735 New York Ave NW
Washington, DC 20006
(202) 682-7575

Aberdeen Group
425 S. Westgate
Addison, IL 60101
(800) 837-0870

Harry N. Abrams
100 Fifth Ave
New York, NY 10011
(212) 345-1559

Arcade Publishers
Box 2365
Berkeley, CA 94705
(415) 255-2783

Ashlee Publishing
310 Madison Ave
New York, NY 10017
(212) 923-7681

Aster Publishing
859 Williamette St
Eugene, OR 97401
(503) 345-1200

Auerbach Publishers
1 Penn Plaza
New York, NY 10119
(212) 971-5051

Belvedere
1501 17th St, Ste 1106
Seattle, WA 98122
(206) 223-2838

Billboard Publishers
1515 Broadway
New York, NY 10036
(212) 764-3147

Braitwood Publishers
Northwood Plaza Station
Clearwater, FL 33751
(727) 496-3877

Brazilier
60 Madison Ave, Ste 1001
New York, NY 10010
(212) 889-0900

Business News Publishing
PO Box 2600
Troy, MI 48007
(800) 847-2160

Butterworth
80 Montvale Ave
Stoneham, MA 02180
(800) 344-1015

Cahners Publishing
275 Washington St
Newton, MA 02158
(617) 291-5609

Cambridge University Press
40 West 20th St
New York, NY 10011
(800) 221-4512

Century Communications
6201 Howard St
Niles, IL 60648
(847) 674-3600

Construction Industry Press
PO Box 9838
San Rafael, CA 94902
(415) 927-2155

Cornell University Press
124 Roberts Pl
Ithaca, NY 14850
(607) 257-7000

Craftsman Book
6058 Corle de Cordo Box 6506
Carlsbad, CA 92009
(619) 436-7826

Crisp Publications
95 First St
Los Altos, CA 94022
(415) 946-4888

DSR Publishing
PO Box 20
Schenectady, NY 12307
(207) 767-6071

Dekker, Marcel
270 Madison Ave
New York, NY 10016
(212) 228-1160

Delmar
2 Computer Dr West
Albany, NY 12205
(518) 347-7707

Delta Communications
400 N. Michigan Ave, 15th Fl
Chicago, IL 60611
(312) 222-2000

Design Publications
330 W. 42nd St
New York, NY 10036
(212) 695-4955

Doubleco & Co
656 5th Ave + 53rd St
New York, NY 10103
(212) 765-6500

Dover Publications
31 E. 2nd St
Minneapolis, MN 55401
(612) 223-3130

Edell Communications
1 E. 1st St
Dubuque, IA 52650
(563) 546-0885

Elsevier Science
PO Box 982
Madison Square Station
New York, NY 10159
(212) 887-5800

Fairmont Press
700 Indian Trail
Libbun, PA 15207
(412) 925-9388

GRDA Publications
110 Triboro Blvd
Mill Valley, CA 94941
(415) 588-6080

Gower Publishing Co
Old Post Rd
Brookfield, VT 05006
(802) 276-3162

Gralla Publishers
1515 Broadway
New York, NY 10036
(212) 869-1300

Greenwood Pub Co
88 Post Rd West
Box 5007
Westport, CT 06881
(203) 226-3557

Halsted Press
603 Third Ave
New York, NY 10145
(212) 850-6418

Hanley and Belfus
210 S. 13th St
Philadelphia, PA 19107
(215) 267-7707

Harper and Row
10 E. 53rd St
New York, NY 10022
(212) 424-7757

Harvard University Press
79 Garden St
Cambridge, MA 02138
(617) 496-2500

Hitchcock Publishing
Hitchcock Bldg
Wheaton, IL 60188
(708) 663-1000

Holt, Rinehart & Winston
6277 Sea Harbor Dr.
Orlando, FL 32887
(305) 782-4479

Horizon Books
PO Box 3088
Fremont, CA 94539
(415) 657-6439

ICBO
5369 W. Workman Mill Rd
Whittier, CA 90601
(213) 699-0541

W. Kaufmann
PO Box 50490
Falo Alto, CA 94303
(415) 965-4081

Knapp Communications
5900 Wilshire Blvd
Los Angeles, CA 90036
(213) 297-4746

Robert E. Krieger Publishing
PO Box 9542
Melbourne, FL 32902-9542
(407) 724-9022

Little Books
5892 E. Jefferson Ave
Denver, CO 80237
(303) 758-1282

M.I.T. Press
77 Bay St
New York, NY 10022
(212) 333-2150

MacLean-Hunter Ltd
Toronto ONT M5W 1A7
(416) 396-5000

MacMillan Publishing Co
Front and Brown Streets
Riverside, NJ 08075
(609) 819-6555

McGraw-Hill Book Co
1221 Ave of the Americas
New York, NY 10020
(212) 512-2000

RS Means Co
PO Box 800
100 Construction Plaza
Kingston, MA 02364
(800) 448-8182

Methuen (Heinemann Educational Books)
79 Court Street
Portsmouth, NH 03801
(603) 431-7894

Mill Hillow Publications
19 W. 21st St
New York, NY 10010
(212) 741-2093

Modern Trade Communications
7450 Skokie Blvd
Skokie, IL 60077
(800) 647-2500

National Academy Press
2102 Constitution Ave NW
Washington, DC 20418
(202) 334-3313

National Learning
212 Michael Dr
Sycovet, NY 11791
(800) 645-6537

National Technical Information Services
5285 Port Royal Rd
Springfield, VA 22161
(703) 487-4900

Nichols Publishing Co
11 Harts Lane
E. Brunswick, NJ 08816
(201) 238-4880

Noyes Publications
Mill Rd at Grand Ave
Park Ridge, NJ 07656
(201) 444-5644

Ohio State University Press
180 Press Hall
1070 Carmack Rd
Columbus, OH 43210
(614) 292-6905

Oxford University Press
20 Madison Ave, 9th Fl
New York, NY 10016
(800) 451-7556

PBC International
1 School St
Glen Cove, NY 11542
(800) 527-2826
Innovative Outdoor Lighting That Stands The Test Of Time

Why Specify Kim Products?
Kim has been manufacturing Landscape Lighting for over 55 years. If nothing else, experience has taught us that there's no substitute for quality materials and construction when it comes to the outdoor environment. That's why all Kim Landscape Lighting products represent a careful blend of aesthetics, performance and rugged construction.

KIM LIGHTING
16555 East Gale Ave., Post Office Box 1275
City of Industry, Calif. 91749 • 818-968-5666
FAX 818-330-3861

Booth #236, ASLA 1990 Annual Meeting, San Diego, CA

Circle No. 537 on Reader Service Card
Landscape Elements

Outdoor lighting, fountains, tree accessories, outdoor furniture, canopies, signage, pavers, awnings, flagpoles, tree feeding systems

Fountain Systems
This comprehensive 40-page color brochure shows the many ways water can be incorporated into a design. In addition to traditional fountains, water can serve as a link between architectural elements, enhance outdoor and indoor greenery, or be combined with sculpture. Bronzelite. 102

Tree Feeder
Protecting trees that are surrounded by pavement, is the goal of this feeding system. This permanent durable in-ground root-feeding system can be adapted to meet the needs of various tree species and weather conditions. W.A.N.E. 103

Outdoor Lighting
The diversity of these contemporary outdoor luminaires is evident in this 120-page book. The fixtures can be used for a variety of commercial and residential applications and for gardens, parks, streets, and walks. Most products are available in several sizes to adapt to any scale project. Bega. 100

WoodForm. 101

Outdoor Lighting
Contemporary redwood bollards, pole, and wall-mounted fixtures are featured in this color brochure along with matching benches, planters, and other site furnishings. These incandescent and fluorescent fixtures come in a variety of styles and sizes.

Canopy Systems
Acrylic skylight canopies and aluminum free-standing and wall-mounted walkways are featured in this catalog. Several canopy profiles are available such as pyramidal, bubble-top, and barrel-vaulted. These enclosures come in standard finishes and colors; custom finishes are available. Mapes. 107

Outdoor Furniture
A folder contains both a full-color 26-page brochure of this company's tables, chairs, and benches and individual full-page dimensioned elevations and plans of each item. This all-wood mahogany and teak furniture is designed for residential and public use. Weatherend. 104

Tree Grates
Grates of all shapes, sizes, and patterns are clearly drawn and detailed in this comprehensive guide. Grate use, however, is not limited just to trees; the colorful brochure also shows their decorative use as wall sculptures and writing surfaces. Custom work is welcomed. Neenah. 109

Outdoor Lighting
Contemporary cast iron tree grates are clearly drawn and dimensioned in this guide. Grate use, however, is not limited just to trees; the colorful brochure also shows their decorative use as wall sculptures and writing surfaces. Custom work is welcomed. Neenah. 109

Outdoor Lighting
Cast aluminum outdoor lighting, in authentic Victorian and Colonial styles, is featured in this full color 31-page catalog. Pole, wall mounted, and bollard fixtures are available in several sizes and with a choice of lanterns. Each fixture is photographed, dimensioned, and fully explained. Stornberg. 106

Outdoor Lighting
This fold-out brochure provides an overview of this company's line of exterior fixtures. Included in the literature are brief descriptions of pole, flood, and path lights, as well as concealed lighting and bollards. More detailed information will be mailed on request. Kim Lighting. 108

Tree Grates
Grates of all shapes, sizes, and patterns are clearly drawn and detailed in this comprehensive guide. Grate use, however, is not limited just to trees; the colorful brochure also shows their decorative use as wall sculptures and writing surfaces. Custom work is welcomed. Neenah. 109
Outdoor Lighting
Redwood, steel, aluminum, and bisqued and matte-glazed white clay are used to create these Modern and Post-Modern fixtures, which can be used in residential and commercial applications. The 16-page brochure provides photos of each item, application recommendations, and dimensions. Liteform. 110

Site Furnishings
Park furniture with tubular steel-framed benches and modular seats are featured in this well detailed catalog. Modular seats are designed for individual or row seating, linear or curved configurations, and surface or wall mounting. All the furniture is available in several colors. Kroin. 111

Exterior Signage
Flexibility is just one feature of this company's exterior and interior signage systems. Illuminated and non-illuminated signs are available with interchangeable post and panel systems, and can be base-plate or ground mounted. Design options and construction details are illustrated. Charleston. 112

Paving Stones
This catalog highlights the design possibilities of interlocking concrete pavers. These pavers are available in a large variety of shapes, patterns, and colors and may be used for residential, commercial, municipal, and industrial applications. Concrete Paver Institute. 114

Signage Systems
This 24-page brochure describes an extensive line of exterior and interior signs, plaques, key chains, and other specialty items. The items are available in a variety of materials and typefaces and the text can be in English, a foreign language, or braille, with raised or engraved letters. Best. 115

Site Furnishings
Seats, tables, planters, litter receptacles, and ash urns are featured in this 20-page guide. All furniture is offered in both metal and wood, in a variety of colors, and is suitable for indoor and outdoor use. Dimensions and typical layouts are shown. LFI. 116

Paving Stones
This company manufactures a range of matching precast concrete products such as concrete pavers, planters, benches, and bollards. Pavers are designed as part of an integrated paving system for roof decks, pedestrian, and vehicular uses, but can also be installed directly on grade. Wausau. 117

Outdoor Lighting
Pole and wall-mounted fixtures for use in parking areas, parks, residential streets, and other applications are available with baked-on enamel finishes in a choice of ten colors. The multipage brochure provides good illustrations of the fixture and its housing and also photometric tables. Spaulding. 118

Canopy Systems
All awning needs, from systems and fabrics to both manual and powered hardware, are supplied by this company. Complete information about frame shapes and sizes, fabric characteristics, hardware types, and assembly and installation of the awning systems are clearly described and detailed. Astrup. 119

Flagpoles
Shoebase, tiltbase, and ground-set-mounted flagpoles, in addition to nautical flagpoles and those with concealed halyard systems, are clearly detailed and explained in this highly informative brochure. It includes pole accessories and finishes and charts containing dimensions. Concord. 120

Lighting Posts
Cast iron pole fixtures, made to resemble fixtures from the 18th Century, are featured in this 30-page full-color brochure. Most of the posts are one-piece castings thereby eliminating nuts, bolts, and welds. The company claims that the poles are protected from vandalism. Spring City Electrical. 121
Heritage clock
Four faces, 19' high, 36" diameter. Solid bronze with antique highlights, backlit faces.
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Outdoor Furniture
Originally designed for an airport, this durable steel and aluminum furniture is also suitable for outdoor use. This flexible seating system allows tables to be incorporated between seats or at the end of a seat unit. A multi-page pull-out brochure provides dimensional information. Kl. 437

Canopy Systems
This company manufactures totally integrated aluminum roll-formed canopy systems with optional skylight panels. Fascias act as both support members and as built-in gutters for roof drainage. These custom-designed canopies are used primarily for commercial applications. Alcan. 438

Landscape Lighting
These versatile contemporary outdoor pole luminaires allow for a variety of shape, size, mounting, color, and optical combinations. Luminaires may be used to light small areas like walkways as well as parking lots. The brochure includes a color chart and dimensional data. McGraw-Edison. 439

Site Furnishings
Lounges, tables, chairs, and accessories are featured in this 36-page catalog of commercial and residential outdoor furniture. The furniture is available in a large selection of styles, materials, and colors. Color chart, dimensions, specifications, and descriptions are included. Tropitone. 440

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Pressure Treated Pine
Southern pine’s unique cellular structure makes it an ideal wood for pressure treatment with preservatives. This informative 15-page guide describes various applications for pressure treated wood, building tips, and finishes. It also explains grading marks. Southern Pine Marketing Council. 122

Sheathing
“Dens Glass”, a paperless sheathing, resists weather deterioration, can be installed vertically or horizontally without loss of strength, and is resistant to rippling, buckling, and sagging. The comprehensive brochure provides a product comparison and answers application questions. Georgia-Pacific. 123

Widespan Systems
These clear-span and multi-span structural systems, offering a choice of web and column types, are able to easily accommodate sprinkler and HVAC systems. Metal-panel wall systems, metal roof systems, doors, windows, gutters, roof jacks and other roof accessories can also be ordered. Star. 124

Panel Systems
This non-veneer fire-rated panel can be used for sheathing, flooring, lap and panel siding, and concrete forms. These easy-to-install panels come in a range of sizes and thicknesses for residential and commercial use. Construction information and details are provided in the brochure. Louisiana-Pacific. 125

Mortar Color
This product is a pre-packaged dry pigment used for the integral coloring of masonry mortar. The pre-measured packaging ensures the desired color specification at the job. Colors are designed to complement, contrast, or match the adjacent brick, stone, or other masonry material. Tamms. 126

Wood Construction
“Gang-Lam” is a high-strength laminated lumber that can be used as beams, headers, and other building components. The company also offers lightweight joists for use in floor and roof systems. The joists resist shrinking, twisting, warping, or splitting and are made without a camber. MiTek. 127

Roofing Systems
Plywood-panel roofing systems, for non-residential use, can work with almost any support system and adapt to any design. Along with the many detailed explanations, property and stress tables, and construction drawings, this manual includes discussions of costs. American Plywood Association. 128

Building Systems
This company offers several large, clear-span building systems that maximize interior space. Single and multi-story structures can be designed with sloped or flat roofs. The 20-page catalog describes and details building and roof systems and provides information on wall options. Butler. 129

Structural Panels
Lumber facings and polystyrene insulation have been combined to form a one-piece structural panel that can be used for wall, roof/ceiling, and floor applications. The panel is not affected by moisture or temperature changes and will not warp or twist. AFM. 130

Wood Framing
The emphasis of this extremely informative 31-page construction manual is commercial and multifamily construction, but much of the information also applies to single and two-story structures. There are many well-drawn details covering specific conditions. Western Wood Products Association. 131
Cementitious Additive
"Chemstar Type S", when added to mortar, reduces water penetration between the masonry units. Improved bond strength and workability are some of the benefits of adding this white limestone powder to masonry mortar, exterior plaster, and stucco.
Chemstar Lime. 132

Wood I-Beams
Designed to save time and labor, these wood I-Beams can be used in floor and roof systems and as window, door, and garage doorheaders. They resist shrinking and warping and provide more load bearing capacity per pound than dimensional lumber.
Georgia-Pacific. 133

Space Frames
To meet individual requirements of span, geometry, aesthetics, and structural support, six space frame systems are available each with different chord, web, and connector configurations. These systems create versatile unobstructed long-span structures.
Unistrut. 134

Bonding Agents
Concrete and plaster bonding agents and an acrylic admix are specifically designed to bond cementitious material to structural surfaces. The brochure fully describes these products and includes performance properties, detailed application, and specifications.
Larsen. 135

Expansion Joints
Responding to building movement caused by thermal change, sway, shear, settlement, or seismic activity is this company’s specialty. Interior and exterior joints and seals are described in well-drawn details and design allowance charts are included.
C/S. 136

Concrete Block
This English manufacturer has developed a process of combining cement, lime, sand, fuel ash, and aluminum powder to create "thermalite", a concrete building material that is light weight, high strength, and provides insulation. These blocks are light enough to be pick up with one hand.
Thermalite. 137

Concrete Reinforcement
When added to a concrete mix, "Fibermesh" will increase the tensile capacity of concrete and help reduce cracking that frequently develops during the early stages of drying. Among its many features, this product can also reinforce against impact forces, shattering, and abrasion.
Fibermesh. 140

Laminated Beams
Glulam beams can be used in exposed applications or as hidden structural supports in walls, floors, and roofs. To aid in sizing simply supported beams, the catalog includes illustrations to help calculate areas, formulas to determine loads, and load tables.
Weyerhaeuser. 141

Glazed Block Systems
"Spectra-Glaze" exterior and interior wall systems offer the economy of block, with the durability of a glazed surface. This system allows structures to be built and completed in one operation, with integral facings of 80 standard colors as well as custom ones.
Burns & Russell. 142

Portland Cement
This 48-page guide serves as a reference book of publications, videos, and slides dealing with Portland cement. There are countless subjects covered in these sources such as fire resistance, sealants, and formwork. None of the information is free but charge a nominal fee.
Portland Cement Association. 143
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White Cement
Whether the project requires precast or site-cast concrete, stucco, flooring, or paving, this company makes a cement mix for the job. The multi-page color catalog includes photos of finished projects, an application guide, and a guide to reference information.
Lehigh White Cement. 441

Brick
Hand- and machine-moulded brick, in standard or custom designs, come in several shades for Modern or traditional looks. Profiles, dimensions, and application ideas are included in the catalog. All bricks are shown in large-scale photos making it easy to see details and colors. Cushwa. 442

Concrete Texturing
This company's line of formliners for cast-in-place concrete is amply illustrated and described in this brochure. Samples of the various textures and use grades are given, along with cost information and selection criteria for the various types of liners. Scofield. 443

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Exterior Insulation
The "energex" exterior insulation and finish system consists of four major components which provide permanent insulation, shape, and texture. Designed for new and retrofit construction, the system is lightweight and can reduce dead loads and increase floor space. Viticon. 146

Cedar Siding
A multi-page color brochure shows some of the possible applications for cedar siding. Standard styles as well as fancy cuts are available, and all have self-aligning groove or alignment score marks that make installation easier and reduce labor time. Shakertown. 147

Insulation Panels
Ideal for retrofit projects, including window walls and glazing and veneer applications, these porcelain-on-aluminum panels upgrade the appearance, security, and energy efficiency of older buildings. The insulated panels are field installed without special tools. Mapes. 148

Masonry Cleaners
"Sure Klean" products are designed to clean brick, concrete, and tile. The company also manufactures stain removers for specific problems such as those caused by insoluble salts, asphalt and tar, and metallic oxidation. Also available is a system which can remove efflorescence. ProSoCo. 149

Wood Siding
Selection of wood siding is made easier with this 11-page guide, which discusses grades, moisture content, installation, and other issues. If additional information is required, this guide provides a list of inexpensive publications and videos for purchase. Western Wood Products. 150

Exterior Wall Systems
This fiber-reinforced cement wall system combines dimensional stability, water integrity, and fire protection to create a product that is suitable for commercial, institutional, and residential construction. A two-page color brochure describes the system and provides a wind-load table. Eternit. 151

Stainless Steel
This new publication presents a comprehensive overview of stainless steel and begins with a discussion of the various grades of stainless, including the nine most frequently used alloys. Shapes, sizes, finishes, as well as fabrication, and joining techniques are also discussed. Nickel Development Institute. 152

Indiana Limestone
For well over 150 years this limestone has been used in private residences, retail stores, and skyscrapers. Virtually every aspect of the stone, from its application and performance characteristics to construction details are covered in several comprehensive catalogs. Indiana Limestone Institute. 153
Exterior Veneers
Porcelain enamel-on-steel is the basic material for these exterior panels. Acid proof, fire proof, and scratch and stain proof, these panels are almost maintenance free. Specifications, details, and applications are all colorfully shown in this 23-page brochure. AllianceWall. 154

Exterior Insulation
Protection against extreme cold, heat, and moisture penetration is provided by this versatile exterior insulation and finish system. Designed to adapt to any situation, this wall system can be curved, bent, sculpted, and finished in a variety of textures and colors. STO. 155

Redwood Siding
There are many benefits to selecting redwood for exterior siding and interior paneling. Known for its weathering qualities, redwood is also naturally resistant to decay, insects, and fire. This guide to redwood defines wood grades and provides profiles. California Redwood Association. 158

Wood Shakes and Shingles
Two very informative brochures are available on shake and shingle roofs and exterior and interior walls. Products are clearly described, and good construction details, helpful coverage and exposure tables, and useful fastener guidelines are included. Cedar Shake & Shingle Bureau. 156

Redwood Cladding
Each system in this company's line of vinyl siding comes complete with soffits, beaded panels, door and window surrounds, corner posts, and other components and decorative accents to create a uniform appearance. A color catalog offers application ideas and describes each style. Wolverine. 159

Glass Cladding
This four-page color brochure highlights "Neoparies", a crystalized glass that resembles granite and marble. This product, however, is more acid and alkali resistant than stone and can withstand exposure to harsh environments. The literature explains other advantages of this product. N.E.G. 161

Metal Finishes
This guide is packed with technical, historical, and general information on various coatings, paints, and finishes that can be applied to steel and aluminum. Three of the finishes discussed are anodic coatings, porcelains, and laminates. A list of products is also provided. Peterson Aluminum. 162

Insulated Wall Systems
"Senergy" is an insulated exterior wall system that combines high energy efficiency with high impact resistance. This tough, low-maintenance system is ideal for schools and shopping malls where there is high physical impact and heavy traffic. Wall colors and textures can be mixed. Senergy. 163

Architectural Precast
A multi-page guide is available to introduce this type of concrete, which is defined as custom-designed precast concrete units with complex shapes and varying dimensions. Much of the guide is devoted to establishing industry standards. Architectural Precast Association. 164

Exterior Cement Board
"Durock", a lightweight cement board, can be easily attached, with nails or screws, to wood or steel-framed exteriors. Thin brick, ceramic tile, and stone aggregate set in an epoxy matrix, as well as stucco may be used as the exterior facing to create a variety of architectural treatments. U.S. Gypsum. 157

Exterior Insulation System
This exterior insulation and finish system is thoroughly explained in this brochure. A cutaway drawing shows the various layers of the system. Detailed performance information is provided, as is a page illustrating the manufacture of the company's prefabricated panel systems. Thermwall. 165
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Radiation Protection
"Clear-Pb" is a shatter resistant, transparent, leaded plastic material for use in hospital and therapy units. The glazing can be fabricated into versatile modular barriers as well as large continuous window panels. Applications and specifications are included.
Nuclear Associates. 168

Steel Windows
Long favored for their strength, durability, and low coefficient of heat transfer, steel windows can now be virtually rust free with the application of a urethane finish. Residential, commercial, and security windows are included in this catalog.
Hope's. 169

Wood Windows
Conventional window types are available with clad or primed frames and with the option of argon-filled glass. Retrofit applications are made easy with a "Trim Kit" that permits installation of standard-sized windows directly into existing openings. A 79-page catalog is available.
Caradco. 166

Doors
An easy-to-follow 38-page guide explains door terminology, construction, and function and describes a variety of door types: solid, fire, specialty core, hollow core, and specialty faced doors. Comparison tables, technical data, and a list of additional publications is also provided.
Weyerhæuser. 170

Operable Skylights
According to the catalog, the natural heat and ventilation resulting from skylight operation will reduce energy costs. Operable and half-operable domed, barrel-vaulted, and other shaped skylights are custom made, preassembled, and factory tested.
Rollamatic Roofs. 174

Skylights
Pre-engineered vaulted, pyramidal, polygonal, and ridge skylights are available in a wide range of sizes. Systems can be fixed or vented with integral curb or curb-mounted units. Included in the catalog is a chart providing light and solar transmittance information.
Plasteco. 167

Glazing
Force-resistant and bullet-resistant glass-clad polycarbonate are the two primary products of this company. This company's literature consists of individual specification sheets put together in a folder. Each sheet illustrates and describes various aspects of the glazing.
Laminated Glass. 171

Doors
In addition to carrying a very extensive line of commercial windows, doors, and skylights, custom-made products in virtually any shape and size can be specified. This thorough brochure includes product information as well as large-scale clearly drawn details.
Andersen. 516
Steel Doors
Commercial steel doors and frames are subject to a battery of tests including impact, temperature, and water penetration that exceed ANSI specifications. Complete descriptions, construction features, a color chart of paint and wood-grain finishes, and other information is provided. Steelcraft. 175

Special Purpose Doors
Intended for sound attenuation or protection from blasts, fumes, and other environmental situations, these doors are described and detailed in this 16-page catalog. Unusual requirements can be met through custom designing and personnel are available to supervise installation. Protective Door. 176

Door Security
Securing a door doesn’t always require a key. In this very brief brochure a computerized locking system, using plastic cards, is described. This “Guestlock” system is designed for hotel use and can accommodate up to 2,000 rooms. Each new key card invalidates the previous key. Yale. 177

Sliding Doors & Windows
High performance, monumental, and multi-slide units are described in this 10-page catalog. According to the literature, this company offers the largest selection of custom sizes and the highest ratings for strength, wind loading, and water infiltration. Arcadia. 178

Glass Block
The versatility of glass block is illustrated in this informative 10-page brochure. Whether installed individually or in prefabricated panels, blocks may be used for walls, skylights, or floors. The brochure includes application ideas, block types, and physical and design data. Pittsburgh Corning. 179

Windows and Doors
The unusual construction of these windows and patio doors takes advantage of the natural differences between materials. The interior surfaces are wood while the exterior is constructed of strong, weatherproof tubular aluminum. Peachtree. 180

Skylights
Glass and acrylic, vented and fixed skylights are discussed in this color brochure. Some of the standard features are one-inch insulated safety glazing, double weatherstrip protection, and a moisture/warp-resistant wood curb. Optional accessories are available, including remote controls. Thermo-Vu. 181

Door Controls
This company’s product line includes surface-applied, over head, concealed, and floor-concealed hydraulic door closers and a complete line of electromagnetically controlled fire and life safety door closers. Accessories for tempered glass doors and entrances are also available. Dorma. 182

Storm Doors
Aluminum and steel doors come in four standard combinations of solid panels and screens and in a choice of colors. This company, with over 95 years of experience, can also manufacture screens, doors, and enclosures to any specification. Kane. 184

Glazing System
This new structural silicone glazing system offers totally flush four-sided glazing, glass units that have more tensile strength than conventional double-sealed units. The literature includes well-drawn details and illustrates various curtain wall options. H.H. Robertson. 185

Windows
A wide range of window styles and sizes for residential use are featured in the literature. Each window has a pre-finished aluminum exterior, wood interior, and true insulated glass. Windows may be designed in a variety of combinations and the literature illustrates application ideas. Eagle. 186

Skylights
Aluminum structural skylights are available with glass, acrylic, fiberglass, and polycarbonate glazing and a choice of painted and anodized frame finishes. There also is a new thermally broken framing design. Applications are provided in this 10-page brochure. Bristolite. 183
Introducing the only roof windows and skylights with the one word guarantee.

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**Commercial Windows**
This catalog surveys windows for commercial applications. Color photographs of wood-clad, tilt-turn, double hungs, and gliding windows, among others, are provided. The performance and design of these windows is explained, and energy data and options are also given. *Marvin Windows*. 187

**Glass Block**
Various types of glass block and its applications are well illustrated in this color brochure. A good description of curved walls is given, including a typical play layout and a discussion of expansion joints. Details are clear, with expansion joints and sealants noted. *Solaris*. 191

**Skylights**
The unique roof-mounting system of these residential skylights allows for a narrower frame and thus more daylight. Four skylight models are available to meet specific needs. Good product descriptions, illustrations, details, and other information are provided in this color catalog. *Wasco*. 192

**Garage Doors**
These steel garage doors are available with raised panels, panels with patterns, and inset glass and are finished to look like wood. The short, four-page brochure highlights important features and provides installation drawings. *Ceco/Windsor*. 193

**Door Hardware**
Residential and commercial security deadbolt and locks are some of the locking systems featured in this 32-page catalog. Padlocks, cabinet locks, and other locking devices and accessories are also listed. Each item is pictured, described, dimensioned, and specified. *Schlage*. 195

**Custom Doors**
This company specializes in stainless steel custom doors and entrances for commercial applications. The brochure introduces a new economical stick system that is pre-engineered and delivered to the site ready to erect. Design ideas and information on corner guards are also included. *Dawson*. 196

**Solariums**
Two-story and patio enclosures are among the several applications shown in this multi-page color brochure. Over 15 different glass types are offered, and a performance chart is provided to help select the ideal glazing. A color brochure provides design ideas. *Patio Enclosures*. 197

**Exit Devices**
Manual and electric push bar exit devices, as well as electric lock actuators, are described in this 11-page catalog. Locking systems, components, and installation methods are fully explained to facilitate selection and product use. *Adams Rite*. 190

**Glazing Products**
Interior and exterior glass in a variety of colors are shown in this brochure. The glass can be coated with a transparent metal film to give special lighting effects or can be designed to reproduce the color and texture of stone. Application and specifications are provided. *Asahi Glass*. 194

**Doors**
A folder of beautifully illustrated, intricately designed glass and mahogany wood doors, in standard sizes, is available. Architectural glass panels can also be adapted for use in metal doors. Custom designs, special sizes, sidelights, and other millwork may be commissioned. *Gayoso Glassworks*. 198
Performance beautifully expressed.

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Skylights
Tempered low E argon-filled glass is standard in every window produced by this company. According to this brochure, the naturally occurring gas provides twice the energy efficiency of conventional insulated glass. The 11-page brochure contains details and specifications. **Roto Frank of America.** 199

Aluminum Windows
Standard and custom windows, with or without glazing, are used in a variety of commercial applications and all meet or exceed the Architectural Aluminum Manufacturers Association's specifications. One of the standard series offers a thermal barrier of poured polyurethane. **Custom Window.** 200

Balanced Doors
Stainless steel, bronze, and aluminum doors, along with information on accessories, options, and a barrier-free entrance, are featured in this 15-page color catalog. They are designed to minimize or eliminate problems associated with conventionally hinged doors. **Ellison.** 201

Industrial Doors
This manufacturer of cold-storage doors has expanded its line to include industrial doors such as electric sliding, folding, and manual vertical lift types. Each door type is fully described with details and dimensions. **Aluma Shield.** 203

Roto Frank of America. 199

Industrial Doors
This manufacturer of cold-storage doors has expanded its line to include industrial doors such as electric sliding, folding, and manual vertical lift types. Each door type is fully described with details and dimensions. **Aluma Shield.** 203

Revolving Doors
Manual, automatic, and security revolving doors are available in the conventional round form, as well as in segmented and large diameter designs. Canopies are available, incorporating signage and lights. All products are described, illustrated, detailed, and sized in this 11-page brochure. **Horton.** 204

Glass Walls
This structural glass system can be custom designed to accommodate unique configurations, slopes, and curves. The maximum single-span height is 50 feet, but with intermediate attachments, the span can be much greater. A brochure provides color photos and details. **W&W Glass.** 205

Wood Doors
This 8-page brochure shows the variety of styles produced from this manufacturer of wood doors. French doors, raised panel doors, and brass-came doors are the three types illustrated. More detailed information is available from the company upon request. **Karona.** 208

Aluminum Windows
Standard window types, replacement systems, and window walls are described in this 15-page catalog. Windows are available in commercial and heavy commercial grades and in a wide range of finishes and colors. Performance information is also provided. **Modu-Line Windows.** 209

Glass Walls
Three curtain wall systems are available, one for low rise or slab-to-slab construction, the for low to medium rise structures, and the last for areas requiring sloped glazing by itself or in conjunction with a vertical curtain wall. Details are provided in a seven-page brochure. **Tubelite.** 210
One way or another...

Brite Vue is the best way in!

Brite Vue Swinging Doors, Revolving Doors and Column Covers form a grand entrance

Swinging doors or revolving doors... if they are Brite Vue they are meticulously engineered, built of the finest materials and are highly adaptable to creative architectural design.

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SWINGING DOORS.
Having no vertical frame members, Brite Vue tempered glass entry doors, as shown here, provide nearly total vision areas. Rails are furnished in all popular architectural metals and finishes. Brite Vue swinging, balanced, bottom rolling and top-hung stacking doors using continuous and/or corner rails are ideal for interior or exterior applications. Full framed doors are also available.

METAL COLUMN COVERS. Custom covers are fabricated to specifications in all popular architectural metals and finishes. They transform structural columns into pillars of beauty. Perfect raceways for communications and electrical lines, as well as for air conditioning ducts. Brite Vue's design, when requested, permits one half of the column cover to be removed for easy access to the enclosed services.

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A Kawneer Company

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Impact-Resistant Doors
Two informative brochures describe door types that can withstand blasts or heavy pressure, that are bullet resistant, and that can shield against radiation. Also included is information on safes, vaults, and security gates. Door selection tables are provided as well as descriptive information. Overly.211

Door Pulls
Available in a variety of aluminum, bronze, brass, and stainless steel finishes, these heavy duty tubular pulls come in standard and custom sizes and designs. A brief four-page leaflet pictures and describes straight, spherical, offset pulls and push/pull bars. Hiawatha.212

Commercial Windows
This company's expanded product line now includes casement and projected commercially rated windows. Windows are factory fabricated in both thermal and non-thermal designs; painted finishes are standard. A complete line of accessory Mullions, perimeters, and trims is available. Kawneer.213

Glazing Systems
Any glazing configuration or application is made possible with these aluminum overhead and vertical systems. Most of the systems are either mechanically assembled or welded and shipped in preassembled sections. A 19-page guide offers large-scale well-drawn construction details. Regal.215

Skylights
This guide to roof glazing gives application ideas and complete details for selecting and installing these glazing systems. Two basic systems are available: roof windows that pivot for easy cleaning and stationary skylights. Velux 216

Radiation Protection
Curved or flat x-ray shielding glass is available in the industry's largest sizes. The glass has high light transmittance and its surface is not easily scratched. Other product uses, specifications, comparative technical data, and design applications are discussed. Technical Glass Products.217

Wood Doors
Oak, walnut, teak, and mahogany are some of the woods used for these hardwood laminated doors. The unique production system ensures that every door is monitored from start to finish for flaws and imperfections. Doors of all descriptions are available. Eggers.218

Aluminum Windows
Resistance to water and air infiltration, sound attenuation, and thermal efficiencies are important aspects of these aluminum commercial, institutional, and retrofit windows. To ensure that specifications have been met, on-site testing is performed for each project. DeVac.219

Windows
Aluminum-clad and all-wood windows are fully described and detailed in this catalog. Double hung and casements are available in studio, picture, bays, and bow styles, and custom designs are welcomed. Patio doors are also available and come assembled and weather-stripped. Louisiana-Pacific.220

Sunrooms
Double glazing, special sealants, heavy duty tubular framing, and other features make these prefabricated sunrooms weather tight and durable for commercial and residential applications. "Kleertek" is a new glazing system for curved and straight eave units. Sunbilt.221

Door & Windows
Residential doors and windows are featured in this easy-to-use indexed binder. There are 63 different door models with 32 glazing options available and clearly-rendered drawings illustrate applications. Although no technical data is provided, there are pages of full-scale dimensioned details. Tischler.222
Own The Skyline.

Someday soon, against a crowded urban skyline, a new building will stand alone like an island. It will have a glass surface with the color and clarity of a tropical lagoon. It will be made of Azurlite™ glass from PPG. This new aquamarine-tinted float glass allows the designer to realize all the openness, aesthetics and efficiencies of daylighting with 72% light transmission. Yet, through solar heat gain management, it delivers the coolness and comfort of a 0.61 shading coefficient for 6mm glass. To personally experience the effect of this fabulous new product, we'd be glad to reveal the location of the above island. Or, you may opt for a free Azurlite glass sample by calling 1-800-2-GET-PPG.
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**Glass Entrances**

This company's line of glass entrance doors is detailed in this 8-page brochure. It offers descriptions of both framed and frameless doors, illustrations of the various door styles, and framing dimensions. There also is a description of the necessary hardware and clearances.  
*Brite Vue.* 444

**Door Handles**

The many commercial door handles made by this company are illustrated in the 4-color catalog. Each handle is shown in its various finishes next to a drawing giving the handle's dimensions and order number. An easy-to-use index facilitates selection of the appropriate handle.  
*Elmes.* 445

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Paver System
"Pave-El", a pedestal paver system, elevates the precast concrete, stone, or other paving to allow for drainage between pavers and the structure below. This four-page spec sheet provides installation drawings in addition to other technical data. Envirospec. 225

Waterproofing
Sheet membranes for waterproofing below grade and liquid membranes for use on structural concrete above and below grade, along with sealers and water repellents, are described in this four-page leaflet. Application of these surface-applied systems is also shown. Pecora. 226

Preformed Metal
Preformed metals for use on roofs, walls, mansards, and soffits are discussed in this 15-page color brochure. The metals come in ten different profiles. Applications of each, along with dimensions, details, and information on fasteners are provided. MBCI. 227

Domes
Geodesic and aluminum domes manufactured by this company are said to use less material and labor than conventional construction and to lower building cost and construction time. The all-aluminum construction results in a lighter structure that will not rust or spall. Temcor. 229

Commercial Insulation
A full line of insulation products, including batts, blankets, and semi-rigid boards, are designed for thermal and acoustical control in retrofit and new commercial construction. Clearly drawn diagrams, dimensional data, specifications, and code information, are provided. Manville. 230

Fire Sealant
"Fyre-Shield" is a high temperature smoke and fire resistant shield, designed to seal around penetrations in fire-rated walls and floors. This spec sheet contains performance standards and limitations of the product as well as other information. Tremco. 231

Metal Roof/Wall Systems
This company offers 17 standard roofing and siding profiles including a tilelike metal roof. Their catalog includes construction details, charts of physical properties, and uniform loads. Color photos show roofing and siding applications. Metal Sales. 224

Sealants
A variety of sealants have been developed to meet different construction needs. Some sealants are mildew resistant; others allow for joint movement or are UV and weather resistant. Performance properties of each sealant are provided in the literature as well as information on applications. GE. 228

Waterproofing
This unique crystallized cementitious waterproofing process can be brushed or spray applied from either the inside or outside of a foundation wall. It also can be applied between horizontal structural slabs and toppings. It is available in gray or white and special colors can be ordered. Tamms. 232
Commercial Insulation
Fiberglass batts and blankets for walls and ceilings, foil insulation, and panel insulation are clearly described and illustrated in this 13-page brochure. Product benefits, insulation design information, design considerations, and installation are some of the topics covered.

CertainTeed. 233

Roofing Systems
Several mechanically attached roofing systems are manufactured by this company, including a single-ply Hypalon membrane and paver systems. All are described and detailed in this 15-page catalog. A table of selection criteria and physical properties is helpful.

JPS Elastomerics. 234

Laminated Shingles
This catalog serves as a selection guide to roofing shingles. These shingles can be used in virtually any application and installed over standard roof deck constructions. The laminated shingle resists cracking, splitting, warping, and shrinking.

GS Roofing. 235

Grout
Tile grouts are designed to complement ceramic tile, to permanently secure it in place, and to protect it from damage caused by water infiltration. According to the brochure, grouts made from this white cement will result in low maintenance projects.

Lehigh Portland Cement. 237

Insulation
A 12-page brochure describes the full line of extruded polystyrene board insulation products available for residential and commercial use. Products are designed for foundations, slab-on-grade, crawl spaces, and other applications. Included in the literature are application photos.

Amoco. 238

Waterproofing
This system is designed to provide waterproofing protection for below-grade applications. A high strength membrane, wall primer, liquid membrane for hard-to-reach places, and sealant comprise this system. A brief leaflet describes materials, application process, and specifications.

Mirafi. 239

Seals
A detailed 32-page catalog offers a full line of air, fire, smoke, and sound control products for doors and windows in addition to handicapped accessible thresholds. The newly developed sound control systems provide the highest STC values available.

Zero International. 240

Roofing Membrane
This lightweight reinforced Hypalon-based membrane is resistant to flame spread, pollutants, and abrasion and reflects nearly 80 percent of the sun’s radiation, which can result in reduced cooling costs. The brief brochure shows installation photos.

Carlisle. 241

Membrane Roof System
The manufacturer of this system claims that it is the only one-piece membrane panel system available. Prefabricated panels, with foamed-in-place polyurethane insulation and a PVC membrane, are heat welded, panel to panel, allowing for weather tightness and expansion.

Aluma Shield. 242

Seals
This catalog describes seals that stop smoke, fire, and sound penetration; thresholds that are skid resistant and handicapped accessible, and weatherstripping that prevents air infiltration. Test data, specifications, and detail drawings are included in the comprehensive 31-page catalog.

Pemko. 243

Roof Insulation
This insulation contains rigid foam cores, bonded to a variety of facings including nailable surfaces, for specific commercial applications. The insulation can be used with built-up roofing, modified bitumen, or single-ply membranes. A tapered system is also available for positive draining.
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Tile Backer

"Dens-Shield" panels are comparable in weight to conventional gypsum board and weigh one-third less than cement board. Panels are virtually unaffected by water or moisture vapor, may be installed in either direction, and do not require any special tools or fasteners. Georgia-Pacific. 245

Sealants

This company manufactures a range of sealants, adhesives, and caulking products. The literature describes surface preparation, application methods, and clean-up procedures, along with performance characteristics and specifications. An easy-to-follow chart is also provided. DAP. 246

Protective Coatings

Lightweight and seamless elastomeric membranes have been developed to waterproof and protect decks and other highly trafficked areas. Systems are designed to repel vehicular fluids such as gasoline and prevent concrete deterioration. A short brochure provides specifications. Polymer Plastics. 247

Fireproofing

Structural fireproofing, with ratings of up to four hours, can be achieved for new construction and retrofit, with these two spray applied products. These products are also highly effective thermal insulators and can provide supplemental acoustical control. Isolatek. 248

Roofing Products

Parapet copings and reglets; perimeter fascia for built-up, single-ply, and modified roofs; and roof drains are all designed to keep water away from the structure. These products come in a choice of standard colors and finishes. The 12-page brochure provides clear drawings. WP Hickman. 252

Cure

An easy-to-use indexed reference binder is available for selecting dry set mortars and grouts for ceramic tile, pavers, marble, and stone installations. Each product is fully described, and technical data, color options, and much more are included. C-Cure Chemical. 253

Metal Roof & Wall Systems

A 32-page color brochure clearly describes and details snap-seam, batten, and standing-seam roof systems, and also several wall panel systems. The wall framing systems use simple connections and can be adjusted to any surface or shape. AEP-Span. 254

Waterproofing

Among the products covered in this easy-to-use reference binder are penetrating sealers, fluid-applied roofing, and water-containment products. For each product a Spec-Data sheet is provided with applications, technical data, and much more. 3M. 255

Metal Roofing

This 13-page color brochure describes two metal roofing systems: structural standing seam and roofing panel and siding. Applications, details, color selection chart, and some technical information are provided. More complete information is available upon request. Merchant & Evans. 256
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Metal Systems
This company is in the business of fabricating metal roofing and siding panels for all types of industrial, commercial, and institutional buildings. The systems are available in a variety of metals, profiles, finishes, and colors. The catalog describes the systems and provides technical data. Steelite. 257

Cement Panel
Manufactured in Canada, these fiber-reinforced cement building panels have been developed for a wide range of interior and exterior applications. These boards are chemical resistant, have a high strength to weight ratio, and are dimensionally stable. Supradur. 258

Roof Systems
This supplier of metal wall and roof-panel systems has put out a 24-page color catalog explaining its products, some of which can be applied vertically or horizontally. Included are application ideas, wind load and span charts, and other technical information. E.G. Smith. 259

Asphalt Shingles
Class A- and C- fire rated shingles, for residential and light commercial use, are highlighted in a 20-page color catalog. The company prides itself on its high manufacturing standards and claims a smaller dimensional tolerance than others in the industry. CertainTeed. 262

Metal Cladding
"Una-Clad" is available in steel, aluminum, copper, stainless steel, and other materials and can be fabricated into column covers as well as roofing systems and details. The color brochure describes the products' various applications, installations, life expectancies, and maintenance. Una-Clad. 263

Roofing Systems
These metal roofing panels are suited for a wide variety of applications in residential and commercial construction and are designed to be applied over solid wood or metal decking. A 20-page catalog provides application ideas as well as technical data and construction details. ECI. 267

Waterproofing
A new bituthene waterproofing system replaces solvent-based primers with water-based surface conditioners designed to meet OSHA and Volatile Organic Compounds regulations. This virtually odorless, non-flammable waterproofing can be applied above-grade and below. WR Grace. 268

Retrofit Roofing
This retrofit metal roofing system is designed to be used over existing sloped or flat built up roofs and comes in a variety of standard profiles and colors. Eave, ridge, and section details are included in the catalog along with a table of section properties. Berridge. 261

Asphalt Shingle.
Class A- and C- fire rated shingles, for residential and light commercial use, are highlighted in a 20-page color catalog. The company prides itself on its high manufacturing standards and claims a smaller dimensional tolerance than others in the industry. CertainTeed. 262

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Single Ply Roofing
Contained in a folder is a package of information on single ply roofing. There is an historical overview of the market, a company profile and fact sheet, and product profiles. The latter provide information on cost, installation, dimensions, chemical resistance, fire rating, and weathering. Cooley. 446

Roof Walkway Systems
Roofs can be protected from damage by foot traffic with this walkway system. Designed to go on any roof, this system can be factory or site assembled. No special tools are required for assembly and the roof is not penetrated during installation. Unistrut. 447

Waterproof Linings
“Delifol”, a high strength pliable polyester watertight sheeting, has a multitude of applications ranging from water tank and pool linings to structure waterproofing. According to the brochure, this product is quick, easy, and economical to install. Recroneics. 448

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Ceramic Tile
Twenty six different ceramic tile patterns are featured in this multi-page spiral-bound guide to floor and wall tiles. Tiles are clearly shown in the full-color photographs. Color charts, specifications, dimensions, and product characteristics are provided for each tile. Laufen. 269

Floor Tiles and Wall Panels
This four-page color leaflet illustrates the patterns and colors of these polished and honed cast-marble tiles that can be used in both floor and wall applications. Descriptions, specifications, and technical, installation, and maintenance data are also included. ArmStar. 271

Ceramic Tile
This new full-color 60-page catalog is a reference guide for the selection of ceramic tile. Installation photos, specifications, applications, sizes, colors, and trim information are provided for each product. Dal-Tile. 272

Partitions
Fully glazed, partly glazed, or solid systems are available in a variety of finishes and fabrics. Since the manufacturer believes flexibility is essential, accessories such as chalkboards can be easily integrated into the systems. Details and elevations are clearly drawn. Dowcraft. 270

Sports Courts
This company manufactures and installs basketball floors and sports courts for racquetball, handball, and squash. In addition to flooring, this company also supplies ceiling, lighting, and door systems, as well as other accessories. Robbins. 273

Mouldings
These decorative trims are made from a high-density polyurethane that makes them lightweight, durable, and easy-to-install. The 15-page color catalog provides complete information on ceiling medallions, mouldings, and other trims, including illustrations. Outwater Plastic. 274

Resilient Floors
This diverse line of commercial products includes inlaid sheet vinyl, rubber and vinyl tiles, and specialty products. A 32-page catalog details each product and provides an easy-to-follow application chart covering eight major categories. Other company literature is discussed. Tarkett. 275

Paint System
"ColorAnswers" system offers a simple way of comparing and specifying paint colors. A fan deck is used as a key to a boxed set of color samples, each of which has the light reflectance value of the color printed on its back. Larger samples are available upon request. Sherwin Williams. 276

Interior Tiles
Several brochures explaining quarry, ceramic, porcelain, and unglazed mosaic tiles are available from this company. Applications of each tile, color selections, and dimensions and technical information covering slip-resistance, tile surfaces, and maintenance are provided. Florida Tile. 277

Underlayment
Five gypsum and portland cement underlayment floors are available to meet particular residential and commercial construction needs, such as correcting a damaged floor or enclosing a radiant floor. Each floor provides sound control, fire resistance, and high strength. Gyp-Crête. 278
Mats and Matting
Rubber and vinyl entrance mats and floor matting for commercial use are described in this eight-page booklet. Mats can be recessed into aluminum frames or surface-laid and can be custom designed to include a logo. Details, colors, and specifications are included in the literature. Musson. 279

Architectural Mesh
Brass and stainless steel are woven into panels for walls or any high contact area like elevator cabs. The mesh comes in a variety of textures, patterns, and finishes. Virtually scratch, dent and corrosion resistant, the mesh requires a minimum of maintenance. Cambridge Architectural Mesh. 280

Wall Systems
"SystemWall" is a movable demountable wall system designed to allow quick and efficient changes within the office. Create totally new configurations or just remove and replace individual panels without disturbing adjacent ones. The color brochure provides diagrams of panel combinations. Kl. 281

Resilient Floor
This company specializes in solid vinyl floor tile, static-control flooring, bases, and sheet vinyl for commercial applications. Several color brochures are available covering the different product lines. Each one includes color photos, dimensions, specifications, and technical data. VPI. 283

Ceiling Panels
Ornamental ceiling panels are offered in eight different patterns from Victorian to Art Deco and in a variety of sizes. The panels may be used in either lay-in suspended grid ceilings or nail-up applications for ceilings or walls. A two-page leaflet provides information on patterns. Chicago Metallic. 284

Movable Partitions
This company specializes in movable office partitions, with glass or solid panels, for newly constructed or existing spaces. Both floor to ceiling and open office interior systems are available. The systems and installation procedures are clearly described in the brochure. Trendway. 285

Protective Wall Coatings
For use in high traffic areas, these acrylic wall coatings create durable seamless surfaces. Coatings are applied with trowel, spray, roller, or brush. There are over 350 colors to select from and a wide array of textures and patterns. A color catalog shows applications and a variety of textures. STO. 287

Unglazed Tile
This eight-page brochure describes the "Quantum II Stain Shield," a naturally fired ceramic that is stain-resistant and can be used in high trafficked areas such as airports and malls. Maintenance and installation recommendations, color charts, and technical data are included. Buchtal. 288

Mats and Gratings
The self-cleaning carpet, vinyl, and aluminum treads, recessed in these grates and roll up mats, are an effective way of removing dirt from shoes and preventing slippery floors. The two-page leaflet provides product descriptions, specifications, and details. J.L. Industries. 289

Acoustical Ceilings
A 20-page color brochure illustrates and describes eight different textured acoustical ceilings, all with UL Class A fire ratings, and shows possible applications. Technical data covers edge details, color availability, grid compatibility, and acoustical performance. Armstrong. 282

Marble Tiles
Color photographs and dimensions of patterned marble tiles are presented in this 36-page catalog. The accompanying text is provided in English and Italian, as is the technical data, which explains repairs, packaging, and maintenance procedures. BiMarmi. 286

Commercial Carpet
This is an easy-to-understand guide to selecting commercial carpets. It provides an overview of the specification process from selecting an installation contractor, to subfloor preparation, to clean up. Also included is a sample specification and installation worksheet and a glossary. Allied Fibers. 290
Finally there's a floor covering product that's especially made for today, the 90's and beyond. A floor covering product that can take the constant pounding and grinding of daily wear, yet continue to clean as easily as the first day it was installed. It's a ceramic tile called Marazzi Enduro® and it carries a 10 year limited warranty on its "Gloss" and "Ocean" series, and a 15 year limited warranty on its "Matt" series, for both wear and cleanability. If it wears out or becomes uncleanable before the warranty expires, it's on us. We'll replace it. We'll also pay for the material and the labor cost. For more information on the available colors, sizes and textures call or write the company that invented and patented this revolutionary flooring product, and receive your personal product kit along with our certificate of promise. We guarantee ... it warrants your attention.
Laminates
According to the literature, "Vitricor", an acrylic laminate, has a reflective gloss appearance similar to hand-lacquered finishes. However, it is a practical stain-resistant surface that can be used in both decorative and functional applications. There are 18 stock colors. Nevamar. 291

Fabric Wallcovering
Designed for high traffic areas, these coverings can be applied to any vertical surface including plaster walls and acoustical panels. The washable durable fabrics come in 106 stock colors and five weaves. Color samples and the results of toxicity, stain resistance, and other tests are included. Xorel Fabrics. 292

Resilient Floors
Muted patterns and neutral colors are the basis for this innovative commercially graded flooring. Floors are available in a choice of widths and borders and are designed specifically for creative custom applications. The catalog illustrates patterns and colors. Mannington. 293

Carpet Fiber
The color in "Antron Lumena" is an integral part of each fiber, resulting in colorfastness. Since carpets made of this fiber can normally be cleaned with mild detergent they are intended for use in spaces that will require frequent care. Fiber description and performance are provided in the literature. Dupont. 294

Hardwood Floors
A 20-page color brochure is full of design ideas, flooring patterns, and complete descriptions of this company's products. Color and finishes are also shown for the factory finished line of parquet, plank, herringbone, and custom-designed floorings. Hartco. 295

Marble
This company maintains a large inventory of polished and flamed-finished stone as well as marble tiles and granite pavers. Information on the company and its production capacity are included in the eight-page brochure, along with color samples and applications. Granite & Marble World Trade. 296

Metal Laminates
Designed for use on interior vertical and horizontal surfaces, metal laminates offer superior dent and crease resistance when compared to solid metal products. The color catalog also features solid metals and metal strips. Metal finishes come in a variety of colors. Formica. 297

Resilient Floors
This 12-page brochure features commercial sheet vinyl. Inlaid mosaic, random chip, and geometric designs are some of the patterns highlighted and each is described and color samples provided. Information is also included on installation procedures and maintenance. Congoleum. 298

Ceramic Tile
"Interni Plus" is a solid glazed tile that is slip and frost resistant. This interior and exterior tile can also be used in high traffic areas such as shopping malls and in commercial kitchens. The brochure features color selections, tile profiles and dimensions, and other information. Vogue. 299

Decorative Coatings
Several types of textured acrylic coatings, designed to meet specific needs for flexibility, water resistance, or weatherproofing are available. These coatings act as protective and decorative finishes for interior or exterior use. A two-page catalog describes the finishes. Tamms. 300

Rubber Floors
These raised-pattern tiles, designed to cushion and help reduce noise, are non-conductive and help resist scuffing. They are ideally suited to high traffic applications such as terminals, malls, and schools. A catalog describing the product also includes details and profiles. Roppe. 301

Acoustic Ceilings
"Sonex" melamine ceiling tiles come in four distinctive raised patterns and three colors and can be installed in a variety combinations. The four-page color brochure includes application ideas, specifications, color samples, a sound absorption comparison chart, and installation tips. Illbruck. 302
Laufen's Charleston 12 x 12 Floor, Charleston 8 x 10 Wall and Nautilus Bath Fixture Collection.

There's A New Wave In Designer Tile.

Tile should have impact. Be bright, bold . . . even radical. That's why Laufen International has designed tile with the kind of graphics, colors and textures that will make your head swim. So brace yourself. Tile like this is bound to make a splash.

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Circle No. 523
Ceramic Tiles
This company manufactures a single-fired, vitreous, hard glazed tile that is known for its strength and durability. Commercially rated, it is recommended for residential and moderate-to-heavy commercial applications either inside or out. Interceramic. 303

Rubber Flooring
Tile, cove, and carpet base and stair treads are available in dozens of standard colors. Custom colors also can be produced to match almost any hue or tint. This multi-page color brochure provides a full description of the products, including profiles, dimensions, and maintenance information. Burke. 304

Ceramic Tile
This company puts out an extensive line of tile and natural stone products in a wide variety of colors, sizes, and shapes. Grouts, mortars, adhesives, and other installation products are also available. This 55-page guide offers complete information and application ideas. American Olean. 305

Gypsum Wallcoverings
For renovation or new construction this gypsum-coated fabric covers block, gypsum board, ceramic tile, plaster, and plywood. Applied from a roll, "Flexi-Wall" will create a decorative, durable surface that will hide cracks, patches, mortar joints, and other irregularities. Flexi-Wall. 306

Rubber Flooring
The literature claims that "Endura" has achieved recognition as the highest quality and best performing flooring material. This durable material is ideal for commercial and residential applications and where slip resistance is required. The color brochure includes color selections. Endura. 307

Wood Floor
During the production process an acrylic finish is forced into the wood, resulting in a floor that never requires restaining and is easy to maintain. The floors are ideal for high-traffic areas and are resistant to abrasion and impact. A color catalog shows applications and sizing data. PermaGrain. 308

Colored Stainless Steel
A large range of colors are created by applying a thin chrome oxide film to stainless steel. The colored stainless is also available in polished and brushed finishes as well as over 65 three-dimensional textures. The product performs better than natural stainless in tests. Prismatic Stainless Steel. 309

Stone
This company stocks 24 different types of stones that can be used in combinations to create unique designs. Some of the stock designs range from traditional to Art Nouveau and Art Deco patterns. The stones are created for interior surfaces only. Lodestar. 310

Column Covers
An array of mirrored and colored stainless and aluminum covers, prematched to "Formica" brand laminates, are vividly shown in a four-page brochure. Covers are custom fabricated in lengths up to 16 feet and are available with flush or revealed bases. Details are provided. C/S. 311

Resilient Tile
Vinyl, vinyl composition, and rubber tiles, as well as inlaid borders, cove bases, and adhesives for commercial and residential use are described in detail in this informative 32-page color catalog. Easy to follow tables provide information on light reflective values, subsfloors, and packing data. Azrock. 312

Wall Finishes
This spray-on wall product leaves a seamless low-luster finish that is said to be as economical as paint and as durable as vinyl. Designed for commercial applications, this finish can be easily scrubbed to remove dirt and stains. A cost analysis is provided in the color brochure. Polomyx. 313

Quartzite
Harder than granite, this material is suitable for both interior and exterior flooring and can be exposed to weather and heavy traffic without sealing. A folder includes large-scale photos in which pattern, texture, and color can be clearly seen. A Spec-Data sheet is also provided. Idaho Quartzite. 314
For colors in rubber flooring, take your cue from Endura.

The 15 standard colors in the Endura palette are carefully chosen for the way they’ll harmonize with contemporary designs. There’s an excellent selection of custom colors, too, and no one does them for smaller minimums. When you include rubber flooring in your plans, Endura’s colors are a nice break from the ordinary.
Wood Floors
A 15-page color brochure is filled with design ideas and flooring patterns; special designs can be created in any wood or combinations of wood. Borders, beveled edges, hand-distressed texture, and matching architectural millwork are some of options available. Kentucky Wood Floors. 315

Wood Millwork
This is an extremely comprehensive 120-page guide to custom architectural millwork. Included among its many products are mouldings, stile-and-rail paneled doors, mantels, stair parts, as well as specialty items like store fixtures. Dimensions, profiles, and much more is provided. Boise. 316

Solid Surface Material
Over 20 decorator colors are available that closely simulate natural granite, marble, and gemstones, but are more durable. This product can be used for countertops, interior walls, custom furniture, and as column covers. Two brief brochures show product application. Avonite. 317

Ceramic Tile
This 22-page spiral-bound color brochure includes pages of photos of ceramic tile applications, descriptions of each product, its uses, and features. Tiles are available in a variety of shapes and sizes and in over 100 colors. Latco. 318

Laminates
A seven-page color brochure describes "solicor", a laminate that has color through-out the thickness of the sheet, eliminating the seam line. The product is intended for interior horizontal and vertical surfaces and the layered bonded sheets permit color sandwiching, and decorative beveling. Wilsonart. 320

Tiles
A multi-page brochure describes the philosophy behind this tile company. These handmade tiles are manufactured one-at-a-time and their slightly rounded edges and corners help to make them unique. Glazed and unglazed tiles come in standard sizes and shapes. Seneca. 321

Ceiling Systems
This company is the producer of integrated ceiling systems and components for a wide variety of commercial and retail applications. A 16-page color brochure features grids, linear metal systems, metal panels, and baffles. Finishes, colors, materials, and other information are provided. Alcan. 322

Hardwood
A 44-page color booklet is filled with ideas for using hardwood to create durable interior surfaces. Staircases, cabinets, floors, as well as specialty items are featured. Although over 40 species of wood are available, only photo samples of the most popular ones have been included. Hardwood Institute. 323

Resilient Floors
Three commercial resilient floor coverings, sheet vinyl, anti-slip flooring, and electrically conductive tile, are all available from this company. Each type is highlighted in a color brochure that includes features, color charts, application ideas, and specifications. Forbo. 324

Carpet
Commercial carpets are thoroughly discussed in this very informative 132-page spiral-bound guide. Color photos of each style are included followed by an easy-to-use specifications table as well as information on yardage, carpet construction, installation methods, and much more. Mohawk. 325

Tile Installation
"Laticrete" system, according to the literature, is the most versatile tile installation system available. The system enables ceramic tile and natural stone to be installed over virtually any existing or new surface, including vinyl and old ceramic tile. Directions for use are included. Laticrete. 326
Clear, Fresh Color From Crossville Ceramics

As clear and cool as a fresh water stream, The Mineral Collection from Crossville Ceramics captures the lucid hues of nature and brings them to porcelain.

Extend your design possibilities with Crossville Ceramics porcelain tile—the only large-unit porcelain tile made in the United States. To view the entire Crossville line, phone 615/484-2110.

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A natural setting for offices, stores, sales floors and lobbies.

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Stone
This Italian-based company has produced a 50-page glossy booklet devoted almost entirely to large-scale photos of marble, granite, and travertine. Textures, patterns, and colors are all clearly seen. The booklet is published in Italian, English, French, and German. IMEG. 449

Marble
A process of combining a polyester-based material with natural marble has produced a product with flexible strength, low absorption rate, and resistance to abrasion and impact. This product is recommended for high-traffic areas and residential use. Rover. 451

Display Systems
This fold-out brochure discusses the attributes of slatted display panels. It explains how the hanging strength of the panels is determined and gives the various dimensions of the slats. Illustrations of the surface materials, including wood grains and plastic laminates, are also shown. Perma Groove. 453

Fabric Systems
"Snap-Tex" system can be installed on plaster, concrete, or brick and can accept a range of fabrics. Using this fabric system eliminates wall preparations, improves acoustics, and creates tackable surfaces. A two-page leaflet illustrates several applications and provides details. Snap-Tex. 452

Wool Carpets
A highly informative, 48-page catalog lists the major wool-carpet manufacturers, with a chart of what each company produces. The chart includes such information as the percentage of wool in each carpet, the type of pile, and the number of colors. The Wool Bureau. 454
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Wool.
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**Furnishings**

**Workstations, casegoods, chairs, presentation boards**

**Workstations**
Designed for comfort and efficiency, this workstation provides a form that encourages productivity. Completely modular, all components can be inter-connected for individual or shared use. A color fold-out brochure describes the systems and accessories.

*Wright Line*. 329

**Task Seating**
"Cyborg" chairs are designed for people who sit for long periods of time. According to the literature, the body must be kept moving if it is to sit comfortably, which these chairs accomplish. A color guide fully explains their action and provides other information.

*Rudd*. 330

**Chairs**
Italian designed, but hand-crafted in America, these contemporary chairs and settees, with Classical frames, are described in this two-page color leaflet. They are available in a variety of wood finishes and upholstered in fabric or leather. Elevation dimensions are provided.

*Brayton*. 331

**Presentation Boards**
This company carries a complete and extensive line of office furniture, seating, and partitions. Highlighted in this brochure are presentation boards. Features include retractable projection screens, magnetic porcelain writing surfaces, and fabric-covered tackboards.

*Haworth*. 332

**Contract Stacking Chairs**
Basic seating styles include a side chair, an armchair, and a side chair with retractable tablet arm and bookrack underneath. All the chairs have steel-rod frames and are fully stackable. Extensive color and texture options are available and the literature includes color selection and dimensions.

*Thonet*. 333

**Media Products**
A color brochure clearly illustrates and describes a wide range of media-related office furniture and equipment. Stands for copiers and audiovisual equipment, rolling carts for television monitors, computer furniture, and projection screens are just some of the products displayed.

*Bretford*. 334

**Furniture Systems**
According to the literature, "Archetype" is a factory-produced office storage system with a built-in appearance. It consists of modular storage and filing cabinets that may be used alone or with standard walls or demountable wall panels. The catalog provides layout information.

*JG Furniture*. 335

**Chairs**
The IBD award-winning "Kobe" chair is presented in this brochure. The chair is available in two versions, with wood capped or upholstered arms, and can be used as a guest, side, or conference table chair. All the chairs have a steel-reinforced hardwood frame.

*Tuohy*. 336
"The alternative to the alternate lifestyle is a life with style."

Innovative and designed for comfort, the Shogun sofa created by Claude Brisson for Ligne Roset, triples as a bed and a chaise. It also features individually and fully adjustable cushions. Select from over 50 leathers and 250 fabrics in a wide array of colors and patterns.

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Circle No. 528

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Special Components and Equipment

Elevators, security systems and enclosures, emergency lighting, dock levelers, projection screens, security gates and screens, handrails, ice rinks, rail systems, surveillance equipment, alarm systems, access floors, disposal systems, floor grates, stair lifts, industrial lifts, lockers, fire protection equipment, exhibition systems, conveyors, explosion relief panels, stair systems, movable walls

Emergency Lights
This 78-page book has an extensive selection of emergency lighting equipment and provides technical data on lamps and voltage drop protection. Among the products listed are emergency lights for decorative, industrial, and commercial applications, and stand by power systems. Lightalarms. 339

Dock Levelers
A complete line of dock products including, docklevers, truck restraints, seals and shelters, bumpers, docklights, and a full array of high speed doors, are featured in this catalog. Easy-to-follow specification charts are provided as well as clear illustrations. Kelley. 340

Projection Screens
A variety of seamless projection screens, including electric screens, suitable for wall or ceiling installation, as well as portable tripod screens, are just some of the featured items. The 16-page brochure illustrates and explains each screen and installation details have been provided. Bretford. 341

Ice Rinks
Everything you want to know about ice rink dasher boards is in this brochure. Photos and drawings show how the boards are installed, what the different components of the system includes, and what options are available. The literature ends with a selection guide. Holmsten Rinkmaster. 342

Security System
Whether for use in a guard tower or front door, bullet-resisting, penetration-resisting, and blast-resisting systems are designed, tested, fabricated, and certified by this company. Ballistic tables, certification information, and other technical data are included in the brochure. Chicago Bullet Proof. 338

Fire Barrier
In large open areas, such as airports, lobbies, and offices, “FireGuard,” a versatile fire barrier, can eliminate the need for a fire-rated wall. This 18-page booklet shows application photos and briefly describes the system, as well as providing information on fire rating and testing standards. Won-Door. 346

Explosion Vents
Custom designed “Explovent” panels allow the release of explosive pressures with a reliability that is verified through field tests and conforms to N.F.P.A. guidelines. Panels are available in three core materials: semirigid fiberglass, aluminum honeycomb, and translucent polycarbonate. C/S. 343

Decorative Railings
Simple polished brass railings and custom-designed wood railings with etched glass infill panels are all available from this versatile manufacturer. The 12-page color brochure includes design ideas, bracket and fitting options, clearly drawn details. Newman Brothers. 344

Metal Railings
This 132-page hard bound book entitled “Stock Components for Architectural Metal Work” is much more than just a listing of parts. Each railing system, treillage, and ornamental panel is illustrated and described and installation information and technical data are provided. Julius Blum. 345
Elevators
Residential elevators, mechanical incline chairs, and "Home-waiters" for use in office or home are among the lifting devices available from this company. Several brochures are available providing photos, information, clearly drawn details, and installation data for each product. Inclinator. 347

Railing Systems
These contemporary nylon-coated tubular railings are intended for both interior and exterior applications and are suited for residential as well as commercial use. The color brochure includes descriptions of these railings and also features molded nylon bath, cabinet, and hardware. Normbau. 348

Security Equipment
Bullet resistant doors and frames, windows, guard enclosures, banking equipment, modular partitions, and specialty products are supplied by this company. Each product is clearly explained and suggested application use and other information provided. National Bullet Proof. 349

Fluorescent Lighting
Recessed fluorescent fixtures for commercial applications are offered in a wide variety of styles, aperture sizes, wattages, and trims. Effects can range from general ambient and task lighting to wall washing. The housing for each fixture is illustrated and dimensioned. Halo. 351

Elevators
Elevator vibration, jerk, and noise have all been reduced by the introduction of the "Miconic V" system. The system's monitoring devices also detect changes in demand, thereby enabling the elevator to provide optimal service. Door-close monitoring and other features are available. Schindler. 352

Smoke Detection System
This information folder profiles the "TrueAlarm System." The folder includes detailed descriptions, dimensional drawings, and specifications for the smoke sensor, addressable interface module, and monitoring and control system. A listing of features is also provided. Simplex. 353

Disposal Systems
According to the brochure, shredding can reduce waste handling costs by reducing the number of containers required. These shredders operate at a low RPM, which helps to keep noise levels down and create a minimum of dust. Systems can be arranged in any configuration. Blower Application. 356

Grating
This company's specialty is steel products with "holes" in them. The 48-page catalog features catwalks, screens, treads, and other products that are available in carbon steel, stainless steel, galvanized aluminum, fiberglass, as well as other materials. McNichols. 357

Stair Lift
Appropriate for outdoor or indoor use, and for retrofit or new construction, this lift system is designed for virtually any stairway configuration. The well-organized and detailed 31-page catalog explains the range of features and benefits of each system and gives layout information. Garaventa. 358

Surveillance Equipment
Cameras, monitors, video recorders, and housings and mounts are listed in this 18-page catalog of closed-circuit video equipment. The catalog includes photographed items, dimensions, features, and rating classifications. Burle. 350

Keys
A wide range of key storage systems, including wall and portable units, cabinets, and drawers, provides a systematic, secure, and convenient method for filing keys. The systems are described and illustrated in a 16-page brochure and the installation procedure is explained. Telkee. 355

Railing Systems
Inclinator. 347

Railing Systems
Normbau. 348

Smoke Detection System
Simplex. 353

Stair Lift
Garaventa. 358
Why Should Heating An Office Complex Be Complex?

No matter what kind of business customer you're building for these days, warm and comfortable is in. And research clearly demonstrates the most comfortable form of heating is radiant heating.

Out of the question? Out of the price range? Not with the Wirsbo underfloor radiant hydronic heating system that uses Wirsbo-pePEX, the world's number one choice. By combining Wirsbo's patented crosslinked polyethylene tubing technology with low-temperature hydronics, you can provide unparalleled comfort at a fraction of the cost of conventional forced-air heating systems.

We can show you how. We're Wirsbo Co. The U.S. operating subsidiary of Europe's hydronic heating leader. In more than 600,000 installations from Amsterdam to Zurich, we've been putting radiant heat to work. Whether you're building with suspended concrete flooring, pre-stressed concrete or slab-on-grade, we have the experience and expertise to make hydronic heating work with your design. We're heating offices and stores. We're heating manufacturing plants and airplane hangars. We're heating hospitals and day-care centers. We're heating landscape nurseries and sports facilities. We're also melting snow on streets, sidewalks, parking ramps and other outdoor surfaces, and controlling ground frost in football fields and racetracks.

Underfloor radiant heating is reliable, economical, trouble-free, vandalproof and, best of all, comfortable. It's a difference people can feel — and an exciting point of difference for a property, whether its occupants will be headquarters and sales offices or retail shops and restaurants.

Call us. We have the proven technology that can make radiant heat work effectively. And the track record that demonstrates its long-term viability. We'll help you make building your next commercial/office complex a little less complex. And a lot more rewarding.

world leader in hydronic systems

WIRSBO
**Vertical Lifts**
This company specializes in the design and production of vertical material handling equipment. An easy-to-read, clearly detailed 23-page color brochure explains the variety of hydraulic and mechanical systems that are available. The brochure discusses safety features.  
*PFLOW. 359*

**Lifts and Levelers**
The mechanism described in this brochure serves as both a lift and a dock leveler. It has a rugged steel frame and an hydraulic lift that can accommodate loads up to 16,000 pounds. The brochure includes a diagram of the equipment along with specifications.  
*Rite Hite. 363*

**Lockers**
This company offers lockers in 14 standard colors plus two-tone styles as well. All lockers can be customized with extra shelves, hooks, and poles. The 15-page catalog describes the many varieties of lockers available, including single and multi-tier and those with solid and mesh panels.  
*Lyon. 360*

**Movable Walls**
“Design Option Wall” is a full height movable steel panel wall system available with solid and full- or partial-glass panels. Wood doors are standard and available in a variety of prefinished colors and stains. The multi-page color brochure describes options and provides details.  
*Ciestra Hauserman. 361*

**Security Hardware**
This company supplies a wide variety of security devices for heavy duty use that are designed to be tamper-resistant and have working parts of corrosion-resistant materials. Featured in this brochure are electric strikes. The literature provides an easy-to-use selection guide.  
*Folger Adam. 364*

**Access Floors**
Flooring systems with wood-core, steel, aluminum, and cementitious panels have been developed to meet design needs in clean computer rooms or to resist static and dynamic loads. The 16-page catalog also features accessory options, illustrations of understructure, and performance tables.  
*Tate. 365*

**Fire Protection**
Extinguishers, extinguisher cabinets, and accessories are featured in this informative 12-page catalog. Equipment in an array of sizes, styles, and finishes is available and is completely described and dimensioned. UL ratings and Coast Guard approvals are also noted.  
*J.L Industries. 362*

**Railing Systems**
A system composed of nylon tubes, elbows, and straight and angled connectors is available in 13 colors and two diameters. Infill panels can be added to the system to meet safety requirements. The literature includes design ideas and installation details.  
*WW Glass. 366*

**Conveyors**
A wide selection of floor-to-floor, bulk, and parts conveyors, for use in a variety of situations, are manufactured by this company. Among the conveyor types available are slider belts, rollerbeds, wire mesh, and hinged. Each system is clearly illustrated and described.  
*Titan. 370*

**Wheelchair Lift**
This inclined stairway lift is designed for carrying a person in a wheelchair or a seated passenger up three flights of stairs. The parallel steel tubes supporting this system may be fastened to any structurally sound wall and can transverse almost any stair.  
*Cheney. 367*

**Domes**
A single-page flyer highlights “Meroform” light-weight domes, half spheres, and spherical segments. Designed primarily for exhibition purposes, the structures may be used inside or out. Structure, material, and other information is briefly discussed.  
*Mero. 368*

**Stair Systems**
This wood stair system has an open front and back. Stringers, balusters, treads, and rails come in a choice of styles and components may be specified for other systems as well. The four-page color leaflet provides design ideas. Installation instructions and hardware come with every order.  
*Mylen. 369*
Since 1910, Julius Blum & Co. has provided ornamental metal components of high quality to the architectural trades. Today, Julius Blum & Co. is the industry's most complete source for architectural metals. Our latest publication, Catalog 15, describes our full line of architectural metal components:

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- Traditional Railings — Handrail, treillage, fittings, and decorative ornaments in aluminum, bronze, steel, and stainless steel.
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- Handrail Brackets — Wall, post and vertical mounting brackets for all handrail types.
- Expansion Joints, Thresholds and Mouldings.
- Tubing, Bars & Shapes in Bronze, Aluminum, Steel and Stainless Steel.

Catalog 15 also includes a complete Engineering Data section to assist in the proper structural design of various handrail systems.

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Presenting the "Elevette" from Inclinator Company.

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Classical Columns
The five Classical orders, as well as variations, are faithfully reproduced in wood by this company. Columns can be structural or decorative and designed for interior or exterior use. All columns are available with plain or fluted shafts and with several capitals to choose from. Chadsworth. 455

Folding Partitions
Enclose or expand space by using folding partitions. The low-profile suspension system minimizes intrusion yet allows for easy, electric or manual manipulation of the panels. Details of installation, fire and sound ratings, and more are included in a color catalog. EMCO. 456

Access Floors
Wood-core access panels have an enclosed steel construction and are capable of supporting concentrated loads of up to 1,400 pounds. They are designed with mitered corner trim edges that will not rise up, push down, or pull off. Four systems are available. Unistrut. 457
What’s a Vertical Reciprocating Conveyor?

Can you picture it in your mind? Probably not. Suppose we said it’s like a specialized elevator (built to carry materials only—no passengers). Now have you got the picture?

Although Pflow makes six models and hundreds of variations of Vertical Reciprocating Conveyors (VRCs), we sense a product identity problem. Even material handling people don’t readily recognize or think about a VRC. On the other hand, we can’t call our VRCs elevators because they’re not elevators. They don’t carry people. Most important, they do not fall under the elevator code. They are covered by the conveyor code (ANSI B20.1).

Why is this important? Because VRCs cost ½ as much as elevators—or less. They can carry materials weighing ounces to 12,000#. They have a vertical travel from a couple of inches to 100 feet.

We’ve got 3500 or so successful installations coast-to-coast. Yet people continue to forget about them. So here’s what we propose. Think of VRCs as very “special” elevators which carry materials only.

When you design a material handling system, think vertically as well as horizontally.

Want all the facts on VRCs? Contact:

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Solve Structural Design Problems on your PC

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QuickBEAM — A finite element program for design of simply supported, fixed, or cantilever beams. Handles up to 20 nodes with 19 connecting beam segments, distributed or point loads, moments, full or partial spans with varying cross sections.

Graphics let you view the problem showing boundary conditions, node locations, forces, moments, and distributed loads. Problem solution plots shear, moments, deflections over the length of the beam. Although the program uses finite element methods, the user doesn’t need to know finite element theory.

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**Materials Library:**

QuickSHAPE — Automatically retrieves properties and specs of more than 1,100 AISC shapes including channels, structural tees, and single & double angles. Provides all dimensions, weights, moments of inertia, and section moduli; then combines with these structural design programs to eliminate tedious manual calculations. Program accepts user defined properties and specs for other materials.

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QuickMOMENT — Calculates section properties on demand and inserts them into the structural design programs. If it’s a regular shape, just select the type . . . tube, circular, trapezoid, I section, etc., enter dimensions, and QuickMOMENT will calculate all of the section properties. You can build irregular shapes with contiguous rectangles on the computer monitor.

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**System Requirements:**

- IBM PC/XT/AT or compatibles
- PC or MS DOS 2.0 or higher
- 256K minimum memory
- IBM color or enhanced graphics (or compatibles)
Beghelli, the Italian leader in emergency lighting products, has now created a totally new kind of lamp: PRATICA BELLA, Practical and Beautiful. Practical because it is easy to install and maintain. Beautiful because it is a creation of Italian design, which adds a pleasant and elegant look to emergency lighting.

A very special style that is capable of integration and provides the finishing touch to your important projects. PRATICA BELLA, available in black, white, and burgundy colors, is part of a complete line of lighting/emergency lighting products manufactured by Beghelli. These products, along with a commitment to quality/assistance and service, are now available in the United States.

So, when you are thinking of an emergency lamp to complete your project, think of Beghelli, think of PRATICA BELLA.
Molded Fiberglass
FRP (Fiber Glass Reinforced Plastic) is strong, lightweight, non-corrosive, and dimensionally stable. Its use in creating architectural ornament and moldings is illustrated in this 4-page brochure. A technical page gives the material's physical properties and examples of its application. MFG. 458

Security Products
"Vantage Wall" is a heavy-duty security panel made of woven steel rods, of various diameters, welded into slots inside a heavy steel frame. It is intended for use in correctional institutions, security windows, and enclosures. Product descriptions and specifications are included. Kane. 459

Kitchen Cabinets
This compact four-page leaflet offers an array of cabinets and accessories, such as appliance garages, lazy susans, and pull-out trays. The literature illustrates the various cabinets, providing dimensions as well as other information on construction, drawers, and more. Kitchen Kompact. 460

Planning an Ice Rink?

Rinkmaster serves architects with these complete services:

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Plumbing and Mechanical Equipment

Louvers, fans, heating and cooling systems, drinking fountains, washroom and kitchen fixtures and fittings, odor absorbers

Louvers
This 72-page manual is full of installation photographs and descriptions of extruded aluminum and fabricated-steel louvers and mechanical dampers. Fixed, operable, horizontal, vertical, and special-purpose louvers are available. Sizing and technical information is provided. Airstream. 373

Radiant Heat
This company's durable plastic tubing is able to withstand a wide range of temperature and pressure combinations. The tubing is adaptable to the needs of virtually all forms of hydronic underfloor heating. An informative brochure explains the system and compares it to forced-air heating. Wirso. 374

Drinking Fountains
This 20-page catalog features a wide selection of pedestal, wall-mounted, and handicapped-accessible fountains for interior or exterior applications. Each model is photographed, described, and detailed. Installation tips and recommended mounting heights are also provided. Haws. 375

Fans and Heaters
An extensive range of fans meet virtually any ventilation need. All-house, exhaust, and room-to-room wall fans are some of the types featured in the brochure. Room heaters are also featured. Details, specifications, and accessories are provided for both product lines. NuTone. 372

Fixtures
Whirlpools, lavatories, bidets, and more are featured in this comprehensive 47-page color catalog. Each product is photographed, described, and dimensioned. In addition to bathroom fixtures, faucets for kitchens and bathrooms are also included. American Standard. 376

Electricity Information
A series of guides to electric use are available from this trade organization. Tables comparing initial costs, operating costs, and maintenance costs of the various competing systems are included. In addition, other features are discussed such as meterability and dependability. Edison Electric Institute. 380

Louvers
High-performance louvers, and those that permit low water penetration, low pressure drop, and high free area are available in galvanized steel or extruded aluminum. The 16-page catalog includes application photos, explanations, and details for these louvers. Ruskin. 377

Bath Tubs
Standard tubs, contoured tubs, and tubs for two all have an acid-resistant, durable surface and come in six standard colors, though custom designs can be applied. Made of heavy duty porcelain enameled metal, these tubs have the strength of cast iron, but half the weight. EBI. 378

Faucets
All brass faucets, fixtures and accessories for kitchen, laundry, and bath are clearly displayed in this multi-page catalog. Special features include double swivel spouts, handicapped faucets, and fast fill and energy saving valves. They are suitable for either residential or commercial use. Kroin. 379

EMPCO. 371
Water Conservation
This multi-page fold-out brochure introduces "MVP", a self-closing water-metering cartridge. Pictured in the literature are a variety of metering faucet sets including a single lavatory fitting, single inlet with valve and spout, and single water inlet. Chicago Faucets. 381

Toilets
Standard and water-saving toilets, as well as bidets and heavy-use commercial toilets are shown in this multi-page fold-out catalog. Toilets are available in one and two pieces, with elongated and rounded bowls, and in a variety of colors. Dimensioned drawings are also included. Briggs. 382

HVAC
Valance heating and cooling system is a forced-water system that eliminates the need for fans or blowers. It is ideal for installations where air movement and noise must be minimized. This four-page leaflet describes the features of the system and includes an installation detail. Edwards. 383

Faucets
This four-color, 32-page catalog illustrates the many styles and configurations of faucets, sinks, shower heads, and bathroom accessories available from this company. Also included is information on the patented cartridge system and specification and detail sheets on each product. Moen. 384

Washroom Accessories
This comprehensive 51-page catalog is a source for virtually all commercial, hospital, and hotel bathroom accessories. Products are clearly shown and dimensioned, and mounting heights are provided for both handicapped and non-handicapped use. Bobrick. 385

Laundry Room
Planning for laundry facilities in multi-family dwellings is made easier with this clearly written guide. The guide discusses optimal laundry room locations, room sizes, and recommended and optional equipment. Also included is a typical floor plan with equipment and accessories laid out. Web. 386

Heating Enclosures
The wide range of baseboard enclosures and elements meet most hot water or steam heating requirements. Filler and corner pieces allow these enclosures to take on virtually any configuration. Profiles, details, rating charts, and more are found in this 27-page brochure. Slant/Fin. 387

Washroom Hardware
This 340-page guide is more than a comprehensive list of bathroom accessories; it is a reference source as well. The guide provides information on designing custom grab bars, care of metal finishes, comparisons on the cost of paper towels vs. dryers, and much more. Tubular Specialties. 388

Louvers
Louvers that will limit water penetration or help lower noise and sound levels, as well as other standard fixed and operable types, are covered in a 28-page brochure. Each type is described and detailed, and performance data is furnished. C/S. 389

Bathroom Accessories
This versatile collection of shelves, mirrors, towel bars, and other items allows for a variety of combinations and designs. These products are made of nylon and are available in 13 colors. A 16-page catalog illustrates each product and provides dimensions and limited descriptions. Hewi. 390

Faucets
A series of brochures by this company illustrate its varied line of faucets and other plumbing fixtures. Some brochures show informative cutaway diagrams and others show the types of spray possible with different hand-held shower heads. Grohe. 391

Odor Removal
Absorbers, using activated carbon to remove gas, vapor, and odors from the air, can be integrated with most air handling equipment. They are recommended for commercial, industrial, hospital, and other health care uses. Both the disposable and rechargeable units are explained. Farr. 392
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Architects: Philip Johnson & John Burgee.
Lighting and Electrical Equipment

Lighting fixtures, cabling, outlets, lighting controls, lamps, wire management systems

Halogen Lamp
This 12-page brochure introduces a new product, "Capsylite" PAR lamps. This lamp offers a wide selection of beam patterns, better beam control, and a more even distribution of light. Each lamp is described and beam spread diagrams and specifications are provided.

GTE Sylvania. 395

Poke-Through Outlets
These poke-through outlets, for electrical, power, and communications cables, have fire ratings of up to four hours and will virtually eliminate smoke spread. The multi-page fold-out brochure provides a clear diagram of this below-floor unit and information on accessories.

Thomas & Betts. 396

Emergency Lights
Italian designed and manufactured, each product has simple clean lines that conceal electronic components. The 24-page color brochure covers lighting fixtures, handlamps, and energy saving fixtures. Illustrations, details, technical data, and specifications are provided. Beghelli. 393

Lighting Controls
The "Style Line" series of switches, dimmers, receptacles, and communication outlets are described in this 17-page product information guide. Specifications and electrical information are included, as well as photographs of the various control products.

Hubbel. 397

Commercial Fixtures
These surface-mounted and recessed fixtures are designed to be compatible with standard ceiling grids. An easy-to-use binder, indexed by fixture type, provides comprehensive product information, including photometric charts and application ideas.

Zumtobel. 399

Lighting Update
Italian-designed table, floor, wall, and ceiling fixtures are featured in this 60-page full-color catalog. Each fixture is well photographed and briefly described and dimensioned, and lamp and reflector data is provided.

Artemide. 400

Wire Management
"Systems for Industrial and Commercial Applications" is a 49-page guide to trench, floor-duct, surface-mounted, and wall-duct supply systems. Each system is described and components and accessories, specifications, and installation instructions are provided, along with details.

American Electric. 401

Track Lighting
A variety of cylinders, gimbal lampholders, and other fixtures are available for general, accent, and task lighting in residential or commercial applications. All fixtures have a highly reflective, specular white interior finish for optimum lighting efficiency and a black baffle to reduce eye strain.

Con-Tech. 402
Prismatic Lighting
Interior lighting for large open areas, such as malls and lobbies, are highlighted in this four-page brochure. The literature claims that efficient HID lamps combined with energy-efficient ballasts provide the most usable light per watts consumed. Holophane. 403

Luminous Ceilings
Luminous ceiling fixtures are designed to enhance the appearance of the ceiling and the overall look of the room. Louvers, available in wood, aluminum, and plastic, as well as covers, baffles, and mirrored surfaces, are illustrated and described in this multi-page brochure. Norton. 407

Track Lighting
Tracks for this lighting system can be suspended by wires or attached to the ceiling. A variety of connector shapes allows for virtually unlimited configurations. Tracks and fixtures come in several colored and plain metallic finishes; prices for all items are included in the multi-page brochure. Flos. 408

Sconces
Ceramic sconces, providing indirect glare-free lighting, are the only fixtures manufactured by this company. Sconces are available in a variety of shell, cone, cylinder, and other shapes. The literature includes fixture dimensions and wiring information. Justice. 405

Electrical Conduit
This four-page leaflet pictures, briefly describes and dimensions jacketed metallic, non-jacketed metallic, and non-metallic flexible electrical conduits. Conduits are also available in a variety of colors. More detailed information can be supplied by requesting additional catalogs. Electri-Flex. 409

Wiring Devices
This multi-page fold-out brochure introduces "TLC", a low voltage switching system for lighting. The system can be fully automated, user directed, or a combination of both. Wiring between switches and relay panels can run above the ceiling, thus eliminating conduits. GE. 411

Interior Lighting Fixture
Inconspicuous lighting fixtures is this company's specialty. Called the "little inch" because of its narrow dimension, these fixtures, designed for use beneath cabinets or shelves, provide task lighting or can accent a surface. Fixtures are available with fluorescent or incandescent lamps. Alkco. 412

Cold Cathode Lighting
This versatile lighting, available in 18 mercury and 7 neon colors, can be fabricated to any shape and size, allowing the light to conform to the design. Long lamp life results in reduced maintenance and, unlike a hot cathode lamp, these dim uniformly, eliminating flickering. National Cathode. 413

Classic Fixtures
Brass, copper, and aluminum pendant fixtures suitable for residential and commercial applications are featured in this 23-page brochure. Lacquered finishes are applied to protect and preserve the appearances of each fixture. Also available are indirect fixtures with HID lamps. Art Directions. 414

Access Floor Unit
"Floor-Mate" is an all-metal diecast steel electric outlet unit that is designed to resist impact and piercing. The unit includes a patented cable exit that protects wires from accidental shearing or damage. The four-page leaflet provides installation advice. Raceway. 406

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The first family in architecturally styled outdoor lighting. Call today for complete details — 1-800-782-3202.
In Ohio call 1-513-793-3200.
Lighting Control System
This brochure describes "Lite-Touch 2000", a microprocessor-based lighting control system that permits virtually complete lighting flexibility. The system can be connected to security systems and also can be operated from touch-tone phones. LiteTouch. 461

Recessed Lighting
This comprehensive 70-page color brochure covers virtually every type of recessed lighting: general, accent, wall-wash, and task. A separate page is devoted to each fixture and information on lamps, reflectors, housing details, optional trims, and photometric data are provided. Juno. 462

Industrial Lighting
Lighting for warehouses, clean rooms, and food processing areas are just a few of the applications discussed in this very instructive 170-page handbook. In addition to the detailed product information, the handbook also provides definitions of lighting terminology and much more. Guth. 463

Dimmers & Fan Controls
Touch, slide, toggle, and rotary dimmers are detailed in this 12-page brochure, along with maximum wattage ratings, and brief product descriptions. Also featured is the "Luma VI", a single control device that provides dimming functions with preset capabilities for six circuits. Pass & Seymour. 464

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Software
According to the literature, "AutoCAD" is the most widely used design software in the world, with applications in appliances, consumer products, and foodservice, as well as architecture. The software also enables three-dimensional designing. Autodesk. 417

Flatbed Plotters
Flatbed plotters can use a greater variety of paper types than paper-moving plotters, including plotter paper, coated paper, drafting film, tracing paper, and others. This informative four-page brochure explains other features of this plotter, including automatic pen control. Roland 418

Management Services
"Drawbase" is an integrated database used by building designers and managers to generate information on cost estimates, return on equity, lease status, material counts, and asset inventories. In addition, it can be used for space planning and space accounting. CADworks. 419

Filing Cabinet
"Econoline", a plan file cabine that opens from the top, saves floor space when compared to flat file drawers. Information can be easily retrieved or added to folders without removal from the cabinet. The design keeps drawings flat and smooth and cabinet protects files from water. Ulrich. 421

CAD Software
This company specializes in integrated CAD programs for building, plant, and mechanical designs. The programs permit rapid movement between disciplines, such as HVAC, plumbing, structural, and electrical. Training seminars and video tapes are available to aid in using these products. ASG. 422

Drafting Supplies
Virtually everything needed from technical pens and computer supplies to drafting tables can be found at discount prices in this comprehensive 65-page catalog. All items can be mail or phone ordered and the company promises same-day shipping. Dataprint. 415

Drafting Materials
Technical pens and ink, lettering devices, templates, portable drawing boards, squares, triangles, and curves, and erasers of all kinds are among the many products featured in this 32-page catalog. Also included in the catalog is a description of ink-on-film drafting. Koh-I-Noor. 416

Insurance
This company's program of professional liability insurance for architects and engineers is described in this three-page fold-out brochure. Education programs that can lead to reduced premiums are available. Design Professionals Insurance Company. 423

Asbestos Abatement
This company provides individualized asbestos abatement services to meet specific needs and strictly adheres to all safety regulations. In addition to asbestos removal, other services include re-insulating, and re-spraying fireproofing, and coordinating waste disposal. BFI/Stephens. 420

Design Software
According to the literature, Apple-compatible "Dreams" is a precision drawing and drafting program that is easy to use and allows designers to think more about design and less about the computer. It can create scaled drawings as well as illustrations for presentations. Innovative Design Data. 424
Code Software
The literature claims "Codebuster" reduces the time spent on building code research by excluding requirements that are not applicable to a specific project. The program presents a series of questions that, when answered, will tell the designer whether the project meets the code. *Architect*. 425

Asbestos Containment
According to this four-page brochure, if asbestos is in good condition it does not need to be removed but can be wrapped. An easy-to-apply fiberglass wrap, molds to virtually any shape, angle, or size. Applications and other information is provided. *3M*. 426

Books
A 15-page catalog lists 60 newly published and standard reference books, covering topics of interest to architectural professionals including design, building, and management. Books may be examined free of charge for 15 days and mail and phone orders are accepted. *John Wiley & Sons*. 430

Louver Software
This spec-sheet introduces "Louvercad", a program of drawings and details for dampers, louvers, and related items. The standard detail can be reduced, flipped, rotated, and further modified to meet exact specifications and lettering can be added or deleted. *Airstream*. 433

Plotter Supplies
This 24-page catalog features a comprehensive range of plotting tools such as disposable liquid ink pens, refillable liquid ink plotter points, inks, adaptors, and much more. Products are illustrated and described, and a table of tips for trouble-free plotting is included. *Staedtler*. 434

Asbestos Tile
Rather than removing vinyl asbestos tiles, this company has developed an encapsulation process that meets EPA standards. The two-step process involves locking in the asbestos fibers and then applying an underlayment. The literature briefly describes the product and its benefits. *Gyp-Crete*. 428

Software
The "Vertex Detailer" provides 25,000 pre-drawn building components that can be combined to create building details. The 6-page brochure describes the program and includes sample details. A typical detail is analyzed to illustrate relative line weights, notes, title blocks, and other features. *Vertex*. 427

Filing Systems
Any storage equipment can be mobilized and transformed into a high-density system that maximizes capacity by stacking equipment together when not in use, thereby eliminating non-productive aisles. A multi-page fold-out brochure illustrates applications. *Spacesaver*. 432

Computer Graphics
This company offers illustrated case studies of how users have applied its computer system to common problems faced by architects. One case study discusses the use "Project Architect" and "ModelView" software to communicate a complicated design to a client. *Intergraph*. 429

Pen Plotters
These pens can reduce plotting time by achieving a speed of 42 inches-per-second and by minimizing pen changes and movement. A multi-page pullout brochure includes sample drawings and describes the efficiency, flexibility, and durability of these pens. *CalComp*. 436

Plotters
Technical information on this company's line of laser monochrome plotters is presented in this brochure. It features a discussion of the plotters' capabilities and a listing of its specifications. Ordering information is also given, along with samples of the plotters' output. *Versatec*. 431

Asbestos Containment
According to this four-page brochure, if asbestos is in good condition it does not need to be removed but can be wrapped. An easy-to-apply fiberglass wrap, molds to virtually any shape, angle, or size. Applications and other information is provided. *3M*. 426

Plotter Supplies
This 24-page catalog features a comprehensive range of plotting tools such as disposable liquid ink pens, refillable liquid ink plotter points, inks, adaptors, and much more. Products are illustrated and described, and a table of tips for trouble-free plotting is included. *Staedtler*. 434

Blueprinters
Single lamp, portable, table, and wall-mounted models, and six-lamp production printers are featured in this brief catalog. Each model is described and priced. In addition, accessories such as roll boxes, feedboard extensions, and ammonia arrestors are also available. *Diazit*. 435

Pen Plotters
These pens can reduce plotting time by achieving a speed of 42 inches-per-second and by minimizing pen changes and movement. A multi-page pullout brochure includes sample drawings and describes the efficiency, flexibility, and durability of these pens. *CalComp*. 436
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Books
Books included in this 48-page catalog range in subject from treatment of great works of architecture and building functions to treatises in architectural technology. The majority of the titles originated in England, where this company is the largest publisher of architectural books. Butterworth. 465

Facilities Software
This facilities management software for the Macintosh has advanced modeling features such as rapid movement from 2 to 3D images, tearoff panels for routing systems, and automatic database listing and report generation. This 4-page brochure includes photographs of the software as it appears on the screen. Schlumberger. 466

Drafting Supplies
The 24 pages of this catalog include a variety of supplies for architects and designers. Pens, pencils, paper, computers, desks, chairs, files, lamps, portfolios, and attaché cases are just some of the items illustrated. Dimensions and prices of all items also are given. Charrette. 467

Still Video Transceiver
The “SV9610” transceiver sends and receives high quality still color video images that can be simultaneously sent to multiple locations. The transceiver also automatically switches from voice to data mode, eliminating the need for a dedicated telephone line. Kodak. 468

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Paul McKenna
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Richard A. Strachan
Sales Manager

James J. O’Brien, Thomas K. Healy,
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Chamin Building, Suite 900
122 East 42nd Street
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James J. O’Brien, District Manager

Charles B. Selden, District Manager

Philadelphia, Pennsylvania:
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Charles B. Selden, District Manager

San Francisco, California 94010:
840 Hinkley Road, Suite 233
Burlingame, CA 94010
415-692-1381 Fax 415 692-7406

Susan M. Werner, District Manager

St. Louis/Kansas City:
2 Illinois Center Blvd, Suite 1300
312-861-0880 Fax 312 861-0874

Timothy Shea, District Manager

Hong Kong, China
China Consultants International (H.K. Ltd.)
Suite 905 Guardian House
32 Of Kwan Road, Happy Valley
Hong Kong, China
Telephone: 5-833-2181
Fax: 852-5-834-3620

Italy:
Puliccia
Via Corticella, 216/6
40128 Bologna
Telephone: 051/320309-325452
Fax: 051-320309

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Bel Air Building, 331A
58 Rue Pottier
78150 Le Chesnay, France
Telephone: 39-63-32-32

Yvonne Melcher, Manager

Spain:
IDG Communication France
Immeuble 46 Parc 1, Defense 5
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Telephone: 49-04-78-00
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Tokyo, Japan 101:
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Dai-Ichi Nisawa Bldg 5th Floor
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France
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Zero International, Inc

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Burlingame, CA 94010
415-692-1381 Fax 415 692-7406

Bancho Media Service

Dai-Ichi Nisawa Bldg 5th Floor
3-1 Kanda Tacho 2-chome
Chiyoda-ku

Malcolm M. Thiele

Managing Director, U.K.