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UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated October 2014

SECTION 08 14 00

WOOD DOORS 08/11

NOTE: This guide specification covers requirements for wood doors.

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

NOTE: On the drawings, show:

1. Locations
2. Sizes, types, thicknesses, glazing, and louvers
3. Designs
4. Fire rating requirements
5. Color
6. Door swing
7. Sound transmission class.

PART 1 GENERAL

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

ARCHITECTURAL WOODWORK INSTITUTE (AWI)

AWI AWS (2009) Architectural Woodwork Standards

ASTM INTERNATIONAL (ASTM)

ASTM E2226 (2012) Standard Practice for Application of Hose Stream

ASTM E283 (2004; R 2012) Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E90 (2009) Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

ANSI/NEMA LD 3 (2005) Standard for High-Pressure Decorative Laminates

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 105 (2013) Standard for Installation of Smoke Door Assemblies and Other Opening Protectives

NFPA 252 (2012) Standard Methods of Fire Tests of

	Door Assemblies
NFPA 80	(2013) Standard for Fire Doors and Other Opening Protectives
	SCIENTIFIC CERTIFICATION SYSTEMS (SCS)
SCS	Scientific Certification Systems (SCS) Indoor Advantage
	U.S. GREEN BUILDING COUNCIL (USGBC)
LEED GBDC	(2009) LEED Reference Guide for Green Building Design and Construction
LEED NC	(2009) Leadership in Energy and Environmental Design(tm) New Construction Rating System
	UL ENVIRONMENT (ULE)
ULE Greenguard	UL Greenguard Certification Program
	UNDERWRITERS LABORATORIES (UL)
UL 10B	(2008; Reprint Apr 2009) Fire Tests of Door Assemblies
	WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA)
ANSI/WDMA I.S.1A	(2013) Interior Architectural Wood Flush Doors
ANSI/WDMA I.S.6A	(2013) Interior Architectural Stile and Rail Doors
WDMA I.S.4	(2013) Preservative Treatment for Millwork
WDMA TM-7	(2008) Cycle Slam Test Method
WDMA TM-8	(2008) Hinge Loading Test Method

1.2 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project.

The Guide Specification technical editors have designated those items that require Government approval, due to their complexity or criticality, with a "G". Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, if the submittal is sufficiently important or complex in context of the project..

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

An "S" following a submittal item indicates that the submittal is required for the Sustainability Notebook to fulfill federally mandated sustainable requirements in accordance with Section 01 33 29 SUSTAINABILITY REQUIREMENTS.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Where a "G" in submittal tags follows a submittal item, it indicates Government approval for that item. Add "G" in submittal tags following any added or existing submittal items deemed sufficiently critical, complex, or aesthetically significantly to merit approval by the Government. Submittal items not designated with a "G" will be approved by the QC organization.

Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY REQUIREMENTS. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES.

SD-02 Shop Drawings

Doors[; G][; G, [____]]

Submit drawings or catalog data showing each type of door unit [; descriptive data of head and jamb weatherstripping with installation instructions shall be included]. Drawings and data shall indicate door type and construction, sizes, thickness, [methods of assembly,] [door louvers,] and [glazing,].

SD-03 Product Data

Doors[; G][; G, [____]]

Accessories

Water-resistant sealer

Sample warranty

[Sound transmission class rating[; G][; G, [____]]]

[Fire resistance rating[; G][; G, [____]]]

Certification

Local/Regional Materials; (LEED NC)

LEED documentation relative to local/regional materials credit in accordance with LEED GBDC. Include in LEED Documentation Notebook.

SD-04 Samples

 NOTE: Require door samples only for relatively larger quantities of doors and only when justified and desired.

Doors

Prior to the delivery of wood doors, submit a sample section of each type of door which shows the stile, rail, veneer, finish, and core construction.

Door finish colors[; G][; G, [____]]

Submit a minimum of three color selection samples [, minimum 76 by 127 mm 3 by 5 inches in size representing wood stain] [for selection by the Contracting Officer].

SD-06 Test Reports

 NOTE: Require tests and test reports when fire rated wood doors are included in the project. Doors designated to have "C" label have a 3/4 hour rating, doors designated to have "B" label have a one or 1 1/2 hour rating.

Cycle-slam

Hinge loading resistance

Submit cycle-slam test report for doors tested in accordance with WDMA TM-7, and hinge loading resistance test report for doors tested in accordance with WDMA TM-8.

1.3 [SUSTAINABLE DESIGN CERTIFICATION/DOCUMENTATION

 NOTE: Products meeting the Gold standard will also meet the basic standard. Require Gold when the facility will be used by people sensitive to air quality conditions, such as child development centers and medical facilities.

Product shall be third party certified in accordance with ULE Greenguard[Gold], SCS Scientific Certification Systems Indoor Advantage[Gold]or equal. Certification shall be performed annually and shall be current.]

1.4 LOCAL/REGIONAL MATERIALS

Use products extracted, harvested, or recovered, as well as manufactured, within a 500 mile radius from the project site, if available from a minimum of three sources. Refer to Section 01 33 29 LEED DOCUMENTATION for cumulative total local material requirements. Wood doors may be locally available.

1.5 DELIVERY, STORAGE, AND HANDLING

Deliver doors to the site in an undamaged condition and protect against damage and dampness. Stack doors flat under cover. Support on blocking, a minimum of 100 mm 4 inch thick, located at each end and at the midpoint of the door. Store doors in a well-ventilated building so that they will not be exposed to excessive moisture, heat, dryness, direct sunlight, or extreme changes of temperature and humidity. [Do not store in a building under construction until concrete, masonry work, and plaster are dry.] Replace defective or damaged doors with new ones.

1.6 WARRANTY

NOTE: The warranty clause in this guide specification has been approved by NAVFACENGCOMHQ in accordance with the requirements of Naval Facilities Acquisition Supplement (NFAS).

NFAS can be found at the following link:

https://portal.navfac.navy.mil/portal/page/portal/navfac/navfac_forbusinesses

The paragraph in this guide specification may be used without any other HQ approval or request for waiver.

Warrant doors free of defects as set forth in the door manufacturer's standard door warranty.

PART 2 PRODUCTS

2.1 DOORS

NOTE: It is preferred that door sizes, designs and thicknesses be indicated on the drawings; if not indicated, schedule appropriate criteria in specifications. Refer to ANSI/WDMA I.S.1A and ANSI/WDMA I.S.6A for stock sizes and designs; the use of stock doors is recommended.

NOTE: Include requirements for wood frames, except for prehung interior wood door units, in Section 06 20 00 FINISH CARPENTRY. Include requirements for metal frames for wood doors in Section 08 11 13 STEEL DOORS AND FRAMES. Include requirements for

hardware, other than for sliding and bi-fold doors,
in Section 08 71 00 DOOR HARDWARE.

NOTE: Premium or select grade is intended for
natural or stain finish, standard grade is intended
for opaque (paint) finish.

Provide doors of the types, sizes, and designs [indicated] [specified] free
of urea-formaldehyde resins.

2.1.1 Stile and Rail Doors

[Premium] [Standard] grade Ponderosa Pine doors or [premium or select]
[standard] stile and rail doors conforming to ANSI/WDMA I.S.6A. Furnish
laminate panels in not less than three ply thickness. Provide flat panels
with a minimum finished panel thickness of 13 mm 1/2 inch and 20 mm 3/4 inch
thickness for raised panels.

2.1.2 Flush Doors

Conform to ANSI/WDMA I.S.1A for flush doors. Provide hollow core doors
with lock blocks and 25 mm 1 inch minimum thickness hinge stile. Hardwood
stile edge bands of doors receives a natural finish, compatible with face
veneer. Provide mill option for stile edge of doors scheduled to be
painted. No visible finger joints will be accepted in stile edge bands.
When used, locate finger-joints under hardware.

2.1.2.1 [Exterior Flush Doors

NOTE: Use of wood doors on exterior of buildings is
not recommended for permanent structures unless the
doors are well protected from the weather.

Solid wood core, Type I conforming to ANSI/WDMA I.S.1A. Provide doors with
[tempered hardboard] [medium density overlayed hardwood veneer] faces.
Provide wood edge bands. Install in exterior flush doors with [aluminum]
[bronze] [copper] flashings at the bottom of the openings.

]2.1.2.2 Interior Flush Doors

NOTE: Hollow core doors should be used for light
duty residential only. Face veneers of doors for
painted finish should be either hardboard or sound
grade rotary cut hardwood. Face veneers of doors
for natural finish should be premium or good grade
rotary cut hardwood. Premium grade, book matched,
wood veneer should only be specified for medical
facilities and other high quality installations such
as chapels, hospitals, and where the additional cost
is justified. Select grade and species desired for
hardwood veneer faced doors. Specify other veneers
if desired (poplar, cherry, etc.); refer to
ANSI/WDMA I.S.1A. Luan is not acceptable.

NOTE: Consider the use of agrifiber board in place of particle board with wood fibers. Types of agrifiber include, but are not limited to, wheat, sunflower, grass straw, cereal straw, rice straw, soybean, bagasse (fibrous by-product of crushing sugarcane or sorghum to extract their juice) and stover (leaves and stalks of corn, sorghum or soybean plants left in the field after harvest). Agrifiber board is dimensionally stable and highly resistant to moisture, while also being lighter in weight than rational wood composites.

Potential Agrifiber Core Door LEED Points:

*MR 6 Rapidly Renewable Materials - 70 percent rapidly renewable materials by weight

*MR 4 Recycled Content - 90 percent pre-consumer by weight

*MR 5 Regional Materials - Many door manufacturers are located in the Midwestern region where agrifiber is harvested

*EQ4.4 Low-Emitting Materials - No added urea-formaldehyde

Provide [staved lumber] [particleboard] [agrifiber] [hollow] core, Type II flush doors conforming to ANSI/WDMA I.S.1A with faces of [sound grade hardwood or hardboard for painted finish] [[premium] [good] grade natural birch] [select [premium white] [red] birch] [[premium] [good] grade [red] [white] oak] [[premium] [good] grade walnut] [plastic laminate]. [Hardwood veneers shall be [rotary cut] [plain sliced] [quarter sliced]] [[random] [slip] [book] matched]]. [Finish plastic laminate faced doors on both vertical edges with [wood] [laminated plastic] of color matching faces.]

2.1.3 Bi-Fold Closet Doors

Provide [hardboard grade flush doors conforming to ANSI/WDMA I.S.1A.] [paneled] [louvered] doors [premium or select] [standard] grade, conforming to ANSI/WDMA I.S.6A with [28.5] [35] mm [1-1/8] [1-3/8] inch thickness. Equip doors with the manufacturer's standard hardware, including tracks, hinges, guides, and pulls.

2.1.4 Sliding Closet Doors

Provide flush wood doors to conform to ANSI/WDMA I.S.1A. Provide [paneled] [and] [louvered] doors to conform to ANSI/WDMA I.S.6A [premium or select] [standard] grade with 35 mm 1-3/8 inch thickness. Equip doors with the manufacturer's standard hardware.

2.1.5 X-Ray Resistant Doors

NOTE: Specify minimum door thickness as follows:

44.5 mm 1-3/4 inch for lead sheet 5 mm 3/16 inch thick and less; 50 mm 2 inch for lead sheet over 5 to 6 mm 3/16 to 1/4 inch thick; 57 mm 2-1/4 inches for lead sheet over 6 to 10 mm 1/4 to 3/8 inch thick; 64 mm 2-1/2 inch for sheet lead over 10 to 13 mm 3/8

to 1/2 inch thick. Coordinate with Section 13 49 19
X-RAY SHIELDING.

ANSI/WDMA I.S.1A solid core flush doors, hardwood veneered, minimum [44.5]
[50] [57] [64] mm [13/4] [2] [2 1/4] [2 1/2] inch thick, of sizes and
construction indicated. Provide lead sheets with 99.9 percent pure lead,
[] mm inch thickness, free from dross, oxide, inclusions, laminations,
scale, blisters, and cracks. Locate lead sheets in accordance with
manufacturer's standard, to extend fully from edge to edge, from top to
bottom, and to be an integral part of the door. Provide wood edge strips
compatible with face veneers.

2.1.6 Acoustical Doors

NOTE: Ensure that STC rating is coordinated with
the STC ratings of walls detailed on drawings. Doors
should be provided with STC rating equal to the
walls and ceilings. Except where walls and ceilings
are designed for an STC of 40 or more, specify STC
of 35. Doors requiring STC ratings greater than 35
may have to be thicker than otherwise specified.
Check manufacturer's literature.

ANSI/WDMA I.S.1A, solid core, constructed to provide Sound Transmission
Class rating of [35] [] when tested in accordance with ASTM E90.

2.1.7 [Composite-Type] Fire Doors

NOTE: Composite-Type fire doors are not recommended
for use in areas where security is desired and/or
high abuse is expected. A hollow-metal type fire
door will provide a higher degree of security and
withstand more abuse.

Provide doors specified or indicated to have a fire resistance rating
conforming to the requirements of UL 10B, ASTM E2226, or NFPA 252 for the
class of door indicated. Affix a permanent metal label with raised or
incised markings indicating testing agency's name and approved hourly fire
rating to hinge edge of each door.

2.1.8 Prehung Doors

NOTE: Use of wood frames in new construction is not
recommended except for family housing.

Frames for prehung interior doors to be for [painted] [clear] finish, with
[3 piece adjustable jamb units] [3 piece adjustable jamb units with pins].
Provide doors complete with frame, hinges, and prepared to receive finish
hardware.

2.2 ACCESSORIES

2.2.1 Door Louvers

 NOTE: The use of wood louvers in exterior wood doors is not recommended. Louvers are not permitted in fire-rated doors with glass lights or exit devices. Louvers may be no larger than 600 by 600 mm 24 by 24 inch and must be an approved fusible link type. Delete the sentence referring to blocking if hollow core doors are not included in the project.

Fabricate from wood and of sizes indicated. Provide louvers with a minimum of 35 percent free air. Equip louvers with [slat] [sightproof inverted vee slat] type. [Block hollow core doors to provide solid anchorage for the louvers.] Mount louvers in the door with [flush wood moldings.] [wood lip moldings.]

2.2.2 Door Light Openings

Provide glazed openings with the manufacturer's standard wood moldings. [Provide moldings for doors to receive natural finish of the same wood species and color as the wood face veneers.] Provide moldings on the exterior doors with sloped surfaces. [Lip type moldings for flush doors.]

2.2.3 Weatherstripping

 NOTE: Include weatherstripping when Section 08 71 00 DOOR HARDWARE is NOT included in project specification; otherwise, add to Section 08 71 00 DOOR HARDWARE Complete weatherstripping should be specified for exterior doors of heated and air-conditioned spaces. Thresholds with extended lip will require door weatherstripping shaped to engage the extended lip on the threshold. Thresholds with raised stops to receive latch bolts of panic-type hardware will require vinyl or neoprene inserts in face of stop. Specify overlapping astragal only when one leaf of double doors is inactive and is equipped with head and foot bolts. Avoid installations which will require door "coordinators."

 NOTE: Maximum air leakage rates are 0.0025 cubic meter per second per sq. m 0.5 cfm per sq. ft. of door area for residential swinging doors and 0.0031per cubic meter per second per sq. m 1.25 cfm per sq. ft. of door area for non-residential swinging doors.

Provide weatherstripping that is a standard cataloged product of a manufacturer regularly engaged in the manufacture of this specialized item. Provide weatherstripping [tempered spring bronze] [or] [looped neoprene or

vinyl held in an extruded non-ferrous metal housing]. Install [bronze weatherstripping with a minimum thickness of 0.23 mm 0.0089 inch for sills, and a minimum thickness of 0.16 mm 0.0063 inch elsewhere.] Air leakage of weatherstripped doors not to exceed [0.0025] [0.0031] cubic meter per second of air per square meter [0.5] [1.25] cubic feet per minute of air per square foot of door area when tested in accordance with ASTM E283.

2.2.4 Additional Hardware Reinforcement

NOTE: Size and shape of core blocking can add considerably to the price of doors. Check manufacturer's catalogs prior to specifying the larger five inch blocking.

Provide the minimum lock blocks to secure the specified hardware. The measurement of top, bottom, and intermediate rail blocks are a minimum 125 mm 5 inch by full core width. Comply with the manufacturer's labeling requirements for reinforcement blocking, but not mineral material similar to the core.

2.3 FABRICATION

2.3.1 Marking

NOTE: Marking may not be required for smaller jobs, or for doors not required to be fire-rated. Delete this paragraph and coordinate with paragraph "SUBMITTALS" when appropriate.

Stamp each door with a brand, stamp, or other identifying mark indicating quality and construction of the door.

2.3.2 Quality and Construction

Identify the standard on which the construction of the door was based [, identify the standard under which preservative treatment was made,] and identify doors having a Type I glue bond.

2.3.3 Preservative Treatment

Treat doors scheduled for restrooms, janitor closets and other possible wet locations including exterior doors with a water-repellent preservative treatment and so marketed at the manufacturer's plant in accordance with WDMA I.S.4.

2.3.4 Adhesives and Bonds

ANSI/WDMA I.S.1A. Use Type I bond for exterior doors and Type II bond for interior doors. Provide a nonstaining adhesive on doors with a natural finish.

2.3.5 Prefitting

Provide factory [prefinished] [finished] [and] factory prefitted doors for the specified hardware, door frame and door-swing indicated. Machine and

size doors at the factory by the door manufacturer in accordance with the standards under which the doors are produced and manufactured. The work includes sizing, beveling edges, mortising, and drilling for hardware and providing necessary beaded openings for glass and louvers. Provide the door manufacturer with the necessary hardware samples, and frame and hardware schedules to coordinate the work.

2.3.6 Finishes

2.3.6.1 Field Painting

 NOTE: Finishes for exterior wood surfaces shall be specified in Exterior Division 6 Wood paint Table in Section 09 90 00 PAINTS AND COATINGS. When new interior doors are to be provided, select the desired coating system in the Interior Division 6 Wood paint Table in Section 09 90 00 PAINTS AND COATINGS.

Factory prime or seal doors, and field paint.

2.3.6.2 Factory Finish

 NOTE: Factory finish, other than plastic laminate and natural finishes, may not be available nor cost effective for relatively small quantities of doors (less than 200 doors of the same finish). Contact door manufacturers for availability and cost.

 NOTE: Select open grain effect where the more expensive closed grain effect is not required. Closed grain effect provides a near furniture-like finish and adds considerably to the cost of a door while it may not necessarily add to the durability.

Provide doors finished at the factory by the door manufacturer as follows:
 AWI AWS Section 1500, specification for System No. 4 Conversion varnish alkyd urea or System No. 5 Vinyl catalyzed. The coating is AWI AWS premium, medium rubbed sheen, [open] [closed] grain effect. Use stain when required to produce the finish specified for color. Seal edges, cutouts, trim, and wood accessories, and apply two coats of finish compatible with the door face finish. Touch-up finishes that are scratched or marred, or where exposed fastener holes are filled, in accordance with the door manufacturer's instructions. Match color and sheen of factory finish using materials compatible for field application.

2.3.6.3 Plastic Laminate Finish

Factory applied, ANSI/NEMA LD 3, General or Specific purpose type, 1.25 mm 0.050 inch minimum thickness. Glue laminated plastic for hollow core doors to wood veneer, plywood, or hardboard backing to form door panel. Provide a combined thickness of laminate sheet and backing of 2.5 mm 0.10 inch minimum.

2.3.6.4 Color

Provide door finish colors [as indicated] [as selected by the Contracting Officer from the color selection samples] [as specified in Section 09 06 90 COLOR SCHEDULE] .

2.3.7 Water-Resistant Sealer

Provide manufacturer's standard water-resistant sealer compatible with the specified finish[es].

2.4 SOURCE QUALITY CONTROL

 NOTE: Require tests and test reports when fire rated wood doors are included in the project. Doors designated to have "C" label have a 3/4 hour rating, doors designated to have "B" label have a one or 1 1/2 hour rating.

Meet or exceed the following minimum performance criteria of stiles of "B" and "C" label fire doors utilizing standard mortise leaf hinges:

- a. Cycle-slam: 200,000 cycles with no loose hinge screws or other visible signs of failure when tested in accordance with the requirements of WDMA TM-7.
- b. Hinge loading resistance: Averages of ten test samples not less than 315 kilograms 700 pounds load when tested for direct screw withdrawal in accordance with WDMA TM-8 using a No. 12, 30 mm 1-1/4 inch long, steel, fully threaded wood screw. Drill 4 mm 5/32 inch pilot hole, use 40 mm 1-1/2 inch opening around screw for bearing surface, and engage screw full, except for last 3 mm 1/8 inch. Do not use a steel plate to reinforce screw area.

PART 3 EXECUTION

3.1 INSTALLATION

 NOTE: If area rugs or carpeting is used in spaces which door openings serve, such as residential occupancies, specify adequate clearance at bottom of doors.

Before installation, seal top and bottom edges of doors with the approved water-resistant sealer. Seal cuts made on the job immediately after cutting using approved water-resistant sealer. Fit, trim, and hang doors with a 2 mm 1/16 inch minimum, 3 mm 1/8 inch maximum clearance at sides and top, and a 5 mm 3/16 inch minimum, 6 mm 1/4 inch maximum clearance over thresholds. Provide 10 mm 3/8 inch minimum, 11 mm 7/16 inch maximum clearance at bottom where no threshold occurs. Bevel edges of doors at the rate of 3 mm in 50 mm 1/8 inch in 2 inch. Door warp shall not exceed 6 mm 1/4 inch when measured in accordance with ANSI/WDMA I.S.1A.

3.1.1 Fire [and Smoke] Doors

NOTE: Fire doors shall be installed in fire rated frames and with fire rated hardware. Frames and hardware shall be specified in their respective sections of the specifications.

Install fire doors in accordance with **NFPA 80**. [Install smoke doors in accordance with **NFPA 105**.]Do not paint over labels.

3.1.2 Prehung Doors

Install doors in accordance with the manufacturer's instructions and details. Provide fasteners for [stops] [and] [casing trim] within **75 mm 3 inch** of each end and spaced **279 mm 11 inch** on center maximum. Provide side and head jambs joined together with a dado or notch of **5 mm 3/16 inch** minimum depth.

3.1.3 [Weatherstripping

NOTE: Use of wood doors on exterior of buildings is not recommended for permanent structures unless they are well protected from the weather.

Install doors in strict accordance with the door manufacturer's printed installation instructions and details. Weatherstrip exterior swing-type doors at sills, heads and jambs to provide weathertight installation. Apply weatherstripping at sills to bottom rails of doors and hold in place with a brass or bronze plate. Apply weatherstripping to door frames at jambs and head. Shape weatherstripping at sills to suit the threshold. [Meeting stiles of exterior double-doors shall be made weathertight by means of [a looped vinyl or neoprene strip in an extruded nonferrous metal housing applied to the edge of one door leaf] [a neoprene, vinyl or spring-bronze weatherstripped astragal secured to the inactive door leaf].]

] 3.2 SCHEDULE

Some metric measurements in this section are based on mathematical conversion of inch-pound measurements, and not on metric measurement commonly agreed to by the manufacturers or other parties. The inch-pound and metric measurements are as follows:

<u>PRODUCTS</u>	<u>INCH- POUND</u>	<u>METRIC</u>
Closet doors	1-1/8 inch	28.5 mm
	1-3/8 inch	35 mm

<u>PRODUCTS</u>	<u>INCH-POUND</u>	<u>METRIC</u>
X-Ray resistant doors	1-3/4 inch	44.5 mm
	2 inches	50 mm
	2-1/4 inch	57 mm
	2-1/2 inch	64 mm
Weatherstripping	0.0089 inch	0.23 mm
	0.0063 inch	0.16 mm

-- End of Section --