**SPECIFICATIONS** 

D. QUALITY ASSURANCE 1) CONFORM TO REQUIREMENTS OF ANSI A250.8. 079200 - JOINT SEALANTS A. ACCEPTABLE MANUFACTURERS: A. SECTION INCLUDES: 1) CLEANING AND PREPARATION OF JOINT SURFACES. 2) SEALANT AND BACKING MATERIALS. 1) PRODUCT DATA: FOR EACH TYPE OF SEALANT TO BE PROVIDED A) SUBMIT CURED SAMPLES OF EACH SEALANT TYPE AND COLOR PROPOSED FOR THE WORK 1) ANSI A250.8; SEAMLESS. B) FOR EACH SEALANT TYPE INDICATED FOR "COLOR AS SELECTED," OR FOR WHICH NO COLOR IS 2) MINIMUM 18 GAGE FACE SHEETS FOR INTERIOR DOORS. INDICATED, SUBMIT COLOR CARD INDICATING AVAILABLE STOCK COLORS FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS FOR EACH TYPE OF SEALANT. 3) SCHEDULE OF SEALANT COLORS AND RESPECTIVE LOCATIONS. STIFFENERS, OR RESIN IMPREGNATED KRAFT PAPER HONEY COMB CORE. C. QUALITY ASSURANCE: PROVIDE CONTINUOUSLY WELDED SEAMLESS EDGES. 1) VERIFY THAT SEALANTS ARE COMPATIBLE WITH THE SUBSTRATES AND ACCESSORY MATERIALS PROVIDED UNDER OTHER SECTIONS. NOTIFY ARCHITECT OF EVIDENCE OF INCOMPATIBILITY. PREPARATION OF DOORS IS NOT ACCEPTABLE. D. GUARANTEE: FURNISH EXTERIOR SEALANT MANUFACTURER'S STANDARD GUARANTEE. 1) TYPE S - NEUTRAL CURE SILICONE SEALANTS: A) INTERIOR FRAMES: MINIMUM 16 GAGE FOR FRAMES OF DOOR OPENINGS UP TO AND INCLUDING A) DOW CORNING, 790 SILICONE BUILDING SEALANT, OR "795 SILICONE STRUCTURAL GLAZING AND 4 FEET IN WIDTH; 14 GAGE FOR FRAMES GREATER THAN 4 FEET IN WIDTH. WEATHERPROOFING SEALANT. B) PECORA "890 ARCHITECTURAL SILICONE SEALANT." 1) INTERIOR UNITS: MANUFACTURER'S STANDARD RUST INHIBITIVE PRIMER. C) GENERAL ELECTRIC CO. "ULTRAPRUF II SCS-2900." D) GENERAL ELECTRIC CO. "SILPRUF." A. INSTALLATION OF FRAMES: 2) TYPE PT: ASTM C920, TYPE M, GRADE P, CLASS 25; TREMCO "THC 900", BASF "MASTERSEAL SL 2", 1) INSTALL FRAMES IN ACCORDANCE WITH SDI-105. PECORA "UREXPAN NR-200", OR APPROVED; STANDARD COLORS AS SELECTED. COORDINATE WITH WALL CONSTRUCTION FOR ANCHOR PLACEMENT. 3) INSTALL ACCESSORIES. A) SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168 (MAXIMUM VOC CONTENT OF 250 GRAMS/LITER). ANCHOR TO STRUCTURE AND FLOOR. B) BOSTIK CHEM-CALK 2000. STRAIGHT EDGE, CORNER TO CORNER. A) SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168. (MAXIMUM VOC CONTENT B. DOOR AND HARDWARE INSTALLATION IS SPECIFIED IN SECTION 087100. B) "AC20+SILICONE" BY PECORA (800-523-6688). SELECT STANDARD COLOR TO MATCH ADJACENT FINISHES AS CLOSE AS POSSIBLE. **081400 - WOOD DOORS** 5) TYPE SM: MILDEW RESISTANT SILICONE SEALANT: A) SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168. (MAXIMUM VOC CONTENT A. SECTION INCLUDES: FLUSH WOOD DOORS. B) "898 SILICONE" BY PECORA (800-523-6688), OR APPROVED. SELECT STANDARD COLOR TO MATCH 2) INSTALLATION OF WOOD DOORS ADJACENT FINISHES AS CLOSE AS POSSIBLE; CLEAR COLOR, EXCEPT USE WHITE AT WHITE B. SUBMITTALS: SUBMIT PRODUCT DATA 1) PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION. A. SOLID CORE FLUSH DOORS: 2) JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS. 2) CORE: SOLID PARTICLEBOARD; FREE FROM ADDED UREA-FORMALDEHYDE FREE. 3) BACKER ROD: CLOSED OR OPEN CELL FOAM AS RECOMMENDED BY THE SEALANT MANUFACTURER 3) FACE VENEER: MEDIUM DENSITY OVERLAY OR PAINT GRADE BIRCH. FOR THE APPLICATION; ROUND PROFILE; THICKNESS APPROXIMATELY 130 PERCENT OF JOINT 4) 1-3/4 INCH THICK, UNLESS SCHEDULED OTHERWISE. B. FABRICATION: 4) BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT STANDARDS SPECIFIED. 2) BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS. 3. EXECUTION A. PREPARATION: 4) PREFIT AND PREMACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6. PREMACHINE FOR 1) CLEAN AND PREPARE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE HARDWARE SPECIFIED IN SECTION 087100. ANY LOOSE MATERIALS AND OTHER FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION OF SEALANT. 2) APPLY MASKING TIGHTLY AROUND JOINTS TO PROTECT ADJACENT SURFACES FROM EXCESS SECTION 09900, AT THE CONTRACTOR'S OPTION. 3) PRIME AS REQUIRED FOR PROPER BOND TO SUBSTRATE MATERIALS. AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED ELSEWHERE. A) PLACE BACKER ROD TO ACHIEVE PROPER SEALANT WIDTH/DEPTH RATIOS AND TO PREVENT A. DOOR AND HARDWARE INSTALLATION IS SPECIFIED IN SECTION 087100. B) USE BOND BREAKER WHERE THERE IS INSUFFICIENT DEPTH TO USE JOINT FILLER. C) DO NOT USE BACKER ROD AND BOND BREAKER AT JOINTS TO RECEIVE TYPE PTNS SEALANT. 083100 - ACCESS DOORS 1) PERFORM WORK IN ACCORDANCE WITH ASTM C1193, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER. JOINT DEPTH: 1) FIRE RATED AND NON-RATED ACCESS DOORS AND FRAMES A) SEALANT BEADS SHALL HAVE A SECTIONAL WIDTH TO DEPTH RATIO OF 2 TO 1, UNLESS 2) DROP-IN GFRG ACCESS PANELS FOR SALES FLOOR CEILINGS. SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER ) INSTALL TYPE PTNS SEALANT FULL DEPTH IN TILE EXPANSION JOINTS WITH NO BACKER ROD 3) APPLY SEALANT WITHIN RECOMMENDED TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN C. QUALITY ASSURANCE: SEALANT CANNOT BE APPLIED WITHIN RECOMMENDED TEMPERATURE RANGES. 4) TOOLING: A) TOOL JOINTS CONCAVE, UNLESS INDICATED OR SPECIFIED OTHERWISE. FINISH FREE OF AIR POCKETS. FOREIGN EMBEDDED MATTER. RIDGES, AND SAGS. AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY B) TOOL TYPE PTNS SEALANT TO MATCH GROUT JOINT. 2. PRODUCTS C. CLEAN-UP: A. ACCEPTABLE MANUFACTURERS: 1) CLEAN ADJACENT SURFACES FREE OF EXCESS SEALANT AS THE WORK PROGRESSES. USE CLEANING AGENTS RECOMMENDED BY THE SEALANT MANUFACTURER. ) MILCOR, INC., LIMA, OH. 2) J.L. INDUSTRIES, BLOOMINGTON, MN. 2) UPON COMPLETION, REMOVE AND DISPOSE OF MASKING. D. SCHEDULE: KARP ASSOCIATES, INC., MASPETH, NY. 1) TYPE S: PROVIDE AT ALL EXTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS 4) MM SYSTEMS CORPORATION, TUCKER, GA. SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS. 5) NYSTROM, MINNEAPOLIS, MN 2) TYPE PT: PROVIDE AT ALL EXTERIOR AND INTERIOR HORIZONTAL JOINTS SUBJECT TO TRAFFIC AND B. DOOR TYPES: ABRASION, UNLESS SPECIFIED OTHERWISE: STANDARD COLORS AS SELECTED FROM FIRE RATED METAL ACCESS DOOR: MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS. 3) TYPE PTNS: PROVIDE AT ALL EXPANSION JOINTS IN TILE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS. COMBUSTIBLE FILLER 4) TYPE A: PROVIDE AT ALL INTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE C) SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE 5) TYPE SM: PROVIDE AT JOINTS AROUND COUNTERTOPS RESTROOM AREAS. 2) NON RATED METAL WALL AND CEILING ACCESS DOOR: A) FLUSH TYPE DESIGN B) 16 GAGE STEEL FRAME; 14 GAGE STEEL DOOR PANEL C) FOR INSTALLATION IN DRYWALL: INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION. GENERAL O.C., MAXIMUM. A. SECTION INCLUDES: 3) NON RATED CONCEALED DRYWALL ACCESS DOOR: 1) ROLLED STEEL DOORS AND FRAMES. A) RECESSED TYPE DESIGN. 2) ACCESSORIES. B) MINIMUM 13 GAGE STEEL FRAME; MINIMUM 16 GAGE STEEL DOOR PANEL RECESSED TO RECEIVE

## **DIVISION 08 - OPENINGS**

# 081113 - HOLLOW METAL DOORS AND FRAMES

B. REFERENCES:

1) STEEL DOOR INSTITUTE (SDI): SDI-105 - RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES

2) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): A250.8 - SDI-100 RECOMMENDED

SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES. 3) AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

A) A366 - SPECIFICATION FOR STEEL, CARBON, COLD ROLLED SHEET, COMMERCIAL QUALITY,

B) A569 - SPECIFICATION FOR STEEL, CARBON (0.15 MAXIMUM PERCENT), HOT ROLLED SHEET AND STRIP, COMMERCIAL QUALITY.

C) A653 - SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-

COATED (GALVANNEALED) BY HOT-DIP PROCESS.

C. SUBMITTALS: 1) PRODUCT LITERATURE: SUBMIT MANUFACTURER'S PUBLISHED LITERATURE FOR DOORS AND

FRAMES. SHOP DRAWINGS: A) FRAMES: INDICATE CONFIGURATION, ANCHOR TYPES AND SPACING'S, LOCATION OF CUTOUTS

FOR HARDWARE, REINFORCEMENT, AND FINISH. B) DOORS: INDICATE ELEVATIONS, INTERNAL REINFORCEMENT, CLOSURE METHOD, AND CUTOUTS FOR HARDWARE.

1) MEMBERS OF THE STEEL DOOR INSTITUTE AND OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURER'S, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

1) STEEL SHEET: COLD ROLLED ASTM A366, OR HOT ROLLED PICKLED AND OILED SHEET CONFORMING

A) INTERIOR DOORS: VERTICAL STEEL STIFFENERS WITH SOUND DEADENING FILL BETWEEN

5) CUT MORTISES FOR BUTTS USING APPROPRIATE TEMPLATES; UNIVERSAL NON-HANDED

DESIGN: DOUBLE EQUAL RABBET, UNLESS INDICATED OTHERWISE; FULLY WELDED.

4) INSTALL ROLL FORMED STEEL REINFORCEMENT CHANNELS BETWEEN TWO ABUTTING FRAMES.

5) INSTALLATION TOLERANCES; MAXIMUM DIAGONAL DISTORTION: 1/16 INCH MEASURED WITH

1) AWS SECTION 9, PC-5 OR PC-7 (5 OR 7 PLY CONSTRUCTION; BONDED CORE); PREMIUM GRADE.

1) FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI

3) BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.

5) DOORS MAY BE FIELD FINISHED OR SHOP FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF

6) FLUSH DOOR BLOCKING: FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL BLOCKING

B. SUMMARY: PROVIDE ACCESS DOORS AND PANELS AS NECESSARY FOR ACCESS TO OVERHEAD DOOR OPERATORS, PLUMBING VALVES AND CLEANOUTS, AND MECHANICAL VALVES AND DAMPERS.

1) WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE

A) FLUSH TYPE DESIGN WITH RECESSED FLANGE OR DRYWALL BEAD AT CONTRACTOR'S OPTION. B) 16 GAGE FRAME; MINIMUM 20 GAGE STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-

D) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.

E) RING TURN LATCH; FURNISH 2 AT LATCH EDGES GREATER THAN 30 INCHES IN LENGTH. F) HOT SMOKE SEAL GASKETING WHERE INDICATED FOR INSTALLATION IN SMOKE PARTITIONS.

D) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING. E) HARDWARE: SCREW DRIVER SLOT, QUARTER TURN CAM LOCK FOR INTERIOR LOCATIONS; 2'-0"

DRYWALL C) INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.

D) FULLY CONCEALED PIVOT ROD HINGE. E) LATCHES: SCREW DRIVER OPERATED CAM LATCH. 4) TOILET ROOM FAUCET POWER SUPPLY ACCESS DOORS: NON-RATED WALL TYPE; 12"W X 12" H;

STAINLESS STEEL, #4 FINISH; ONE PIECE FRAME; CONCEALED HINGE. C. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAN ENTRY

D. GLASS FIBER REINFORCED GYPSUM (GFRG) ACCESS PANELS: 1) APPROVED PRODUCTS:

A) WIND-LOCK (LEESPORT, PA: 800-872-5625) "STEALTH." B) CASTLE ACCESS PANELS & FORMS, INC. (CONCORD, ON; 905-738-8089) "GFRG POP-OUT ACCESS PANEL" WITH RADIUS CORNERS. 2) PROVIDE 24-INCH (610 MM) OPENINGS UNLESS NOTED OTHERWISE.

3. EXECUTION

A. INSTALLATION: 1) PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED.

2) ACCESS DOORS REQUIRED FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT, ARE SUBJECT TO ARCHITECTS PRIOR APPROVAL OF LOCATIONS.

3) COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.

4) PROVIDE CONCEALED GFRG ACCESS DOORS AT PUBLIC LOCATIONS SUCH AS AT SALES FLOOR AREAS, EXCEPT WHERE FIRE RATED DOORS ARE REQUIRED.

5) PROVIDE CONCEALED DRYWALL ACCESS DOORS IN OTHER LOCATIONS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

### 087100 - DOOR HARDWARE AND INSTALLATION

A. SECTION INCLUDES:

1) HARDWARE FOR SWINGING DOORS. 2) DOOR AND HARDWARE INSTALLATION.

B. SUBMITTALS: 1) HARDWARE SCHEDULE:

A) SUBMIT TO THE ARCHITECT, IN TRIPLICATE, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE OPENING

B) GENERAL CONTRACTOR TO ORDER ALL HARDWARE IMMEDIATELY UPON APPROVAL OF 2) PRODUCT DATA: SUBMIT, IN TRIPLICATE, PRODUCT CUT SHEETS CLEARLY INDICATING HARDWARE

3) SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE OWNER, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE OWNER.

C. QUALITY ASSURANCE 1) GENERAL CONTRACTOR TO BID HARDWARE THAT CONFORMS TO REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

2) WHERE OPENINGS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE HARDWARE COMPONENTS LABELED BY UNDERWRITER'S LABORATORY, OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED. 3) HARDWARE SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.

D. SUBSTITUTIONS: SUBMIT SUBSTITUTIONS WITH CATALOG FOR ARCHITECTS APPROVAL IN ACCORDANCE

E. WARRANTY: SUBMIT MANUFACTURER'S WARRANTIES STATING HARDWARE ITEMS WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AS FOLLOWS, FOR A PERIOD COMMENCING ON THE DATE OF SUBSTANTIAL COMPLETION. 1) BUTT HINGES: LIFE OF BUILDING

3) DOOR CLOSERS: 10 YEARS, MECHANICAL; 2 YEARS, ELECTRICAL 4) EXIT DEVICES: 5 YEARS, MECHANICAL; 2 YEARS, ELECTRICAL 2. PRODUCTS

A. MANUAL SWINGING DOOR HARDWARE 1) TYPE: AS SCHEDULED ON THE DRAWINGS 2) KEYS & KEYING:

2) LOCKS AND LATCHES: 2 YEARS.

A. HARDWARE INSTALLATION:

B. DOOR INSTALLATION:

A) ALL CYLINDER ITEMS SHALL BE KEYED AS DIRECTED BY THE OWNER. B) KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.

(1) CONTRACTOR TO INSTALL LOCKSET WITH CONSTRUCTION CORES.

(2) PROVIDE INTERCHANGEABLE OR REMOVABLE CORES FOR USE DURING THE CONSTRUCTION. D) PERMANENT CORES: INSTALL OWNER FURNISHED PERMANENT CORES.

1) MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE.

2) EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.

3) INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHES IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER

COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE. 4) HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA). GENERALLY, MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND HANDICAPPED REQUIREMENTS. VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT

IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED. A) LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB. B) DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.

C) EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR D) PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL. E) PUSH PLATE: 1/2 INCH FROM EDGE OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 INCHES WHERE INDEPENDENT OF THE PUSH/PULL.

F) TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE. G) BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.

H) CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES. MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.

WALL STOPS: CENTERLINE OF KNOB OR POINT OF FIRST CONTACT. K) THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT SLOPE BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BED OF CAULKING MATERIAL.

HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS. M) TRIM/PROTECTION: KICKPLATE SHALL BE 2" LDW X HEIGHT INDICATED.

N) OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.

L) CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER

5) ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION. CLEAN DOOR AND HARDWARE. 6) HARDWARE GROUPS: AS INDICATED ON THE DRAWINGS.

1) FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.

2) INSTALL DOORS PLUMB AND SQUARE IN ASSOCIATED FRAMES MAINTAINING SPECIFIED CLEARANCES. 3) PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO

TOP OF DECORATIVE FLOOR FINISH OR COVERING. EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD. 1) INSTALL HOLLOW METAL DOORS IN ACCORDANCE WITH ANSI A250.8 AND HMMA 840. INSTALL FIRE RATED DOORS IN ACCORDANCE WITH NFPA 80.

6) INSTALL DOORS TO OPERATE FREELY, BUT NOT LOOSELY, FREE FROM HINGE BOUND CONDITIONS, STICKING OR BINDING. DO NOT INSTALL IN FRAMES WHICH WOULD HINDER OPERATION OF DOORS. 7) ENSURE DOORS ARE FREE FROM RATTLING WHEN IN LATCHED POSITION.

088773 WINDOW FILMS

B. SUBMITTALS:

1) PRODUCT DATA. 2) SAMPLE: MINIMUM 8 X 10 INCH SAMPLE OF FILM.

INSTALLATION OF SHADING FILMS TO WINDOWS.

3. EXECUTION

B. INSTALLATION 1) FIELD APPLY TO ROOM INTERIOR SIDE SURFACE OF GLAZING AS INDICATED AND AS RECOMMENDED

BY THE MANUFACTURER FOR RELEASE ENHANCEMENT PROPERTIES. 2) INSTALL FILM TO EACH DISTINCT PANE AS A SINGLE SHEET, FREE OF SCRATCHES, DIRT, AND IMPERFECTIONS. WHERE PATTERNS ARE SHOWN, TRIM ACCURATELY TO LINE, USING TEMPLATES

3) ACCURATELY TRIM FILM EVEN WITH GLAZING STOPS FOR COMPLETE COVERAGE TO GLAZING

A. SECTION INCLUDES:

D. QUALITY ASSURANCE:

1) PARTITION FRAMING

3) SUPPORT AND BACKING FOR WALL MOUNTED RUG FLIPPERS.

4) STEEL BACKING.

B. SYSTEM DESCRIPTION

 PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BEEN TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY

INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.

3) PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHTGAGE METAL FRAMING INSTALLATION.

1) UNLESS INDICATED OR SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH ASTM C754.

A. NON-LOAD BEARING LIGHT GAGE METAL FRAMING: AS INDICATED ON THE STRUCTURAL DRAWINGS. B. CHANNELS: HOT OR COLD ROLLED CHANNELS, RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.

1) SCREWS: SELF TAPPING; LOW PROFILE HEAD; GALVANIZED.

E. PARTITION HEAD COMPENSATING CHANNEL: AS INDICATED ON THE STRUCTURAL DRAWINGS. F. OTHER FRAMING MATERIALS: PROVIDE OTHER FRAMING MATERIALS IN ACCORDANCE WITH ASTM C754.

EITHER OF THE FOLLOWING AT CONTRACTOR'S OPTION. A) SOLID LUMBER OR PLYWOOD IN ACCORDANCE WITH SECTION 061000 B) 16 GA X 4 INCH WIDE STEEL PLATE OR 20 GA X 6 INCH STEEL STUD. PROVIDE 12 GAGE BACKING

A. COORDINATE WITH SECTION 081400 AND 087103 FOR INSTALLATION OF DOOR FRAMES AND HARDWARE

B. RUNNERS: 1) SECURE RUNNERS WITH FASTENERS AT MAXIMUM SPACING INDICATED ON THE STRUCTURAL DRAWINGS

THE LANDLORD. INSTALL IN ACCORDANCE WITH LANDLORDS REQUIREMENTS TO PROTECT INTEGRITY OF POST TENSION TENDONS. 4) TOP TRACK: ATTACH TRACK TO OVERHEAD STRUCTURE WITH ALLOWANCE FOR DEFLECTION AS

OPTION, AS NECESSARY TO ACCOMMODATE BUILDING DEFLECTION. 5) UNLESS APPROVED OTHERWISE, AT FIRE RATED PARTITION ASSEMBLIES, USE FIRE RATED TRACKS. FURNISHED FROM SECTION 078500. INSTALL FIRE RATED TRACKS IN ACCORDANCE WITH THE FIRE

6) ALIGN TO TOLERANCES SPECIFIED. C. UNLESS INDICATED OTHERWISE, INSTALL STUDS VERTICALLY AT 16 INCHES OC, AND NOT MORE THAN 2 INCHES FROM ABUTTING CONSTRUCTION, AT EACH SIDE OF OPENINGS, AND AT CORNERS.

E. BRACE PARTITION FRAMING SYSTEM AND MAKE RIGID. PROVIDE DIAGONAL STUD BRACING AT MAXIMUM 8 FT ON CENTER AT ALL FRAMING WHICH DOES NOT EXTEND TO STRUCTURE.

DIAGONAL STEEL STUD BRACING TO STRUCTURE AT EACH JAMB AT PARTITIONS WHICH DO NOT EXTEND G. PROVIDE DEFLECTION HEAD CHANNEL DETAIL TO ACCOMMODATE MINIMUM +/1/2 INCH DEFLECTION OF

DECK ABOVE. AT NON-LOAD BEARING FULL HEIGHT PARTITIONS SUBJECT TO COMPRESSION CAUSED. BY OVERHEAD STRUCTURAL DEFLECTION, CUT STUDS 1/2 INCH SHORT FROM FULL HEIGHT. DO NOT RIGIDLY CONNECT STUD TO TOP RUNNER. H. COORDINATE ERECTION OF STUDS WITH INSTALLATION OF SERVICE UTILITIES. ALIGN STUD WEB

AND OTHER CONSTRUCTION WITHIN PARTITION. J. COORDINATE THE INSTALLATION OF FRAMING WITH THE GYPSUM BOARD INSTALLER TO ENSURE

K. STUD SPLICING NOT PERMISSIBLE. L. BACKING: PROVIDE FOR SUPPORT OF WALL MOUNTED ITEMS, INCLUDING OWNER-FURNISHED

1) AT INTERIOR PARTITIONS GREATER THAN 4 FEET IN LENGTH, AND WITH RIGID FACING MATERIAL ON ONE STUD FLANGE ONLY, PROVIDE 3/4" BRIDGING CHANNELS IN HORIZONTAL ROWS AT A MAXIMUM

2) INTERIOR FULL HEIGHT PARTITIONS (STUDS EXTENDING FROM THE FLOOR TO THE STRUCTURE ABOVE) WITH RIGID FACING MATERIAL STOPPING 3'-0" OR MORE BELOW TOP OF STUDS - PROVIDE ONE ROW 3/4" BRIDGING CHANNEL HORIZONTALLY AT TERMINATION OF GYPSUM BOARD MATERIAL AND ONE ADDITIONAL ROW FOR EACH 5'-0" OF EXPOSED STUDS.

PRINTED INSTRUCTIONS.

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ISSUED / REVISED PRELIMINARY SET L COORDINATION SET 11/08/16 LL/PERMIT SET 11/21/16 **HP REVIEW SET** 01/11/17 01/26/17 BID SET PERMIT CORRECTIONS 03/22/17 PERMIT CORRECTIONS-2 04/06/17 /3 PERMIT ADDENDUM 05/05/17 /4 05/24/17 /5 HP REVIEW PERMIT ADDENDUM 2 06/15/17

A. SECTION INCLUDES: FIELD APPLIED WINDOW SCREENING FILM.

C. QUALITY ASSURANCE: FILM SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN THE FIELD

A. WINDOW FILM TYPE AS SCHEDULED "WF-1."

A. PREPARATION: CLEAN GLASS.

**DIVISION 09 - FINISHES** 

# 092200 - LIGHTGAGE METAL SUPPORT FRAMING

2) SOFFIT FRAMING.

1) STRUCTURAL DESIGN: AS INDICATED ON THE STRUCTURAL DRAWINGS. C. CODE REQUIREMENTS:

THE LOCAL JURISDICTIONAL CODE AUTHORITIES. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY. 2) FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS

2) HANGER WIRE: ASTM A641; CLASS 1 ZINC COATING; SOFT TEMPER; PRESTRETCHED; 12 GAGE. D. FIRE RATED TRACK: AS SPECIFIED IN SECTION 078500.

2) BACKING: WHERE BACKING FOR WALL-SUPPORTED ITEMS IS INDICATED OR REQUIRED, FURNISH

PLATES AT HANDRAILS.

2) AT CONCRETE FLOORS, USE POWDER DRIVEN FASTENERS OR DRILLED IN CONCRETE ANCHORS. 3) AT POST TENSIONED CONCRETE ELEVATED SLABS, USE FASTENERS OR ANCHORS APPROVED BY

INDICATED. USE PROPRIETARY COMPENSATING CHANNEL OR DEEP LEG TRACK AT CONTRACTOR'S

RATED ASSEMBLY REQUIREMENTS.

D. FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS AT SPACING OF WALL

F. INSTALL DOUBLE STUDS CONTINUOUS FROM FLOOR TO CEILING TRACK AT THE JAMB OF EACH DOOR FRAME AND CASED OPENING. STUDS AT FRAMES SHALL BE NO LESS THAN 20 GAGE. PROVIDE

OPENINGS COORDINATE ERECTION OF STUD SYSTEM WITH REQUIREMENTS OF DOOR AND WINDOW FRAMES. FIRE EXTINGUISHER CABINETS. RECESSED TOILET ACCESSORIES, ACCESS DOORS, ACOUSTICAL INSULATION.

SUPPORT AT ALL BOARD EDGES. PROVIDE FRAMING IMMEDIATELY EITHER SIDE OF EXPANSION JOINTS.

CASEWORK AND ACCESSORIES. M. STUD BRIDGING: OF 5'-0" ON CENTER FOR THE FULL HEIGHT OF THE PARTITION

3) INSTALL STUD BRIDGING CHANNELS IN LONG LENGTHS, WIRE TYING AND LAPPING THE JOINTS A MINIMUM OF 12." ATTACH BRIDGING CHANNEL TO EACH STUD AS SHOWN IN MANUFACTURER'S

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