SECTION 07630 - GUTTERS AND DOWNSPOUTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. PRE-FINISHED GALVANIZED STEEL, DOWNSPOUTS, GUTTERS AND SCUPPER BOXES.

1.2 RELATED SECTIONS

A. DIVISION 7

1.3 REFERENCES

A. ASTM A526/A526M-STANDARD SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED) BY HOT-DIP PROCESS, COMMERCIAL QUALITY.

1.4 DESIGN REQUIREMENTS

A. CONFORM TO APPLICABLE CODE FOR SIZE AND METHOD OF RAINWATER DISCHARGE.

1.5 PROJECT CONDITIONS

A. COORDINATE THE WORK WITH DOWNSPOUT DISCHARGE PIPE INLET.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. DIMENSIONAL METALS INC.

B. APPROVED EQUALS BY PETERSON ALUMINUM CO. OR BERRIDGE MANUFACTURING CO.

2.2 MATERIALS

A. PRE-FINISHED GALVANIZED STEEL SHEET. ASTM A361/A361M, ASTM A446/A446M, GRADE A, OR ASTM A526/A526M, G90 ZINC COATING, 24 GAUGE CORE STEEL. SHOP PRE-COATED WITH THERMO-CURED FLUOROCARBON "KYNAR" 500 RESIN COATING. COLOR: TO BE CHOSEN BY BRANDPARTNERS. SUBMIT SAMPLE TO BRANDPARTNERS FOR APPROVAL.

2.3 COMPONENTS

A. GUTTERS: SMACNA 'K' STYLE PROFILE

B. DOWNSPOUTS: SMACNA RECTANGULAR PROFILE.

C. ANCHORS AND SUPPORTS: PROFILED TO SUIT GUTTERS AND DOWNSPOUTS.

D. FASTENERS: SAME MATERIAL AND FINISH AS GUTTERS AND DOWNSPOUTS.

E. DOWNSPOUT BOOT: DURA-COATED CAST IRON BODY AND STRAP WITH 1/4" DIA. CAST HOLES FOR FLAT HEAD BOLTS, AS MANUFACTURED BY ALPINE. SIZE APPROPRIATELY TO ACCEPT DOWNSPOUTS AS DESCRIBED IN DRAWINGS.

2.4 FABRICATION

A. FORM GUTTERS AND DOWNSPOUTS OF PROFILES AND SIZE INDICATED.

B. FABRICATE WITH REQUIRED CONNECTION PIECES.

C. FORM SECTIONS SQUARE, TRUE, AND ACCURATE IN SIZE, IN MAXIMUM POSSIBLE LENGTHS, FREE OF DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE. ALLOW FOR EXPANSION AT JOINTS.

D. HEM EXPOSED EDGES OF METAL MIN 1/2" FOLD OVER.

E. FABRICATE GUTTER AND DOWNSPOUT ACCESSORIES; SEAL WATERTIGHT.

2.5 FACTORY FINISHING

A. THERMO CURED FLUOROCARBON "KYNAR 500" RESIN COATING.

B. PRIMER COAT: FINISH CONCEALED SIDE OF METAL SHEETS WITH WASH COAT AND PRIMER COMPATIBLE WITH FINISH SYSTEM, AS RECOMMENDED BY FINISH SYSTEM MANUFACTURER.

PART 3 - EXECUTION

3.1 EXAMINATION

A. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK.

3.2 PREPARATION

A. PAINT CONCEALED METAL SURFACES AND SURFACES IN CONTACT WITH DISSIMILAR METALS WITH PROTECTIVE BACKING PAINT TO A MINIMUM DRY FILM THICKNESS OF 15 MIL.

3.3 INSTALLATION

A. INSTALL GUTTERS, DOWNSPOUTS, AND ACCESSORIES AS SPECIFIED.

B. SHEET METAL: JOIN LENGTHS WITH SEAMS SEALED WATERTIGHT. INSTALL AND SEAL GUTTERS TO DOWNSPOUTS (PROVIDE POSITIVE DRAINAGE TO DOWNSPOUTS).

C. SLOPE GUTTERS TO DOWNSPOUTS (PROVIDE POSITIVE DRAINAGE TO DOWNSPOUTS).

D. CONNECT DOWNSPOUTS TO DOWNSPOUT BOOTS AT STORM SEWER SYSTEM. SEAL CONNECTION WATERTIGHT. PROVIDE SPLASH BLOCKS AT ALL LOCATIONS WHERE DOWNSPOUTS DO NOT TIE INTO A STORM SEWER.

END OF SECTION

SECTION 07920 - JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS COMPLETED JOINT SEALANT APPLICATIONS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR PROJECT THAT HAVE RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

B. SINGLE SOURCE RESPONSIBILITY FOR JOINT SEALANT MATERIALS: OBTAIN JOINT SEALANT MATERIALS FROM A SINGLE MANUFACTURER FOR EACH DIFFERENT PRODUCT REQUIRED.

C. PRODUCT TESTING: PROVIDE COMPREHENSIVE TEST DATA FOR EACH TYPE OF JOINT SEALANT BASED ON TESTS CONDUCTED BY A QUALIFIED INDEPENDENT TESTING LABORATORY OR CURRENT PRODUCT FORMULATIONS WITHIN A 24-MONTH PERIOD PRECEDING DATE OF CONTRACTOR'S SUBMITTAL OF TEST RESULTS TO ASSOCIATE.

1. TEST ELASTOMERIC SEALANTS FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED BY REFERENCE TO ASTM C 920. INCLUDE TEST RESULTS FOR HARDNESS; STAIN RESISTANCE, ADHESION AND COHESION UNDER CYCLIC MOVEMENT (PER ASTM C 719), LOW-TEMPERATURE FLEXIBILITY, AND MODULUS OF ELASTICITY AT 100 PERCENT STRAIN, EFFECTS OF HEAT AGING, AND EFFECTS OF ACCELERATED WEATHERING.
2. INCLUDE TEST RESULTS PERFORMED ON JOINT SEALANTS AFTER THEY HAVE CURED FOR 1 YEAR.

D. PRECONSTRUCTION FIELD TESTING: PRIOR TO INSTALLATION OF JOINT SEALANTS, FIELD-TEST THEIR ADHESION TO JOINT SUBSTRATES AS FOLLOWS: LOCATE TEST JOINTS WHERE INDICATED OR, IF NOT INDICATED, AS DIRECTED BY ASSOCIATE. CONDUCT FIELD TESTING FOR APPLICATION INDICATED FOR EACH TYPE OF ELASTOMERIC SEALANT AND JOINT SUBSTRATE INDICATED.

1.3 DELIVERY, STORAGE AND HANDLING

A. DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION PERIOD FOR USE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

B. STORE AND HANDLE MATERIALS IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

B. COLORS: PROVIDE SELECTIONS MADE BY ASSOCIATE FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS FOR PRODUCTS OF TYPE INDICATED.

2.2 MANUFACTURERS

A. PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING: TREMCO OR DOW CHEMICAL OR SONNEBORN

2.3 ELASTOMERIC JOINT SEALANTS

A. ELASTOMERIC SEALANT STANDARD: PROVIDE MANUFACTURER'S STANDARD CHEMICALLY CURING ELASTOMERIC SEALANT THAT COMPLY WITH ASTM C 920 AND OTHER REQUIREMENTS INDICATED ON EACH ELASTOMERIC JOINT SEALANT DATA SHEET AT END OF THIS SECTION, INCLUDING THOSE REQUIREMENTS REFERENCING ASTM C 920 CLASSIFICATIONS FOR TYPE, GRADE, CLASS AND USES.

B. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE PRODUCTS SPECIFIED IN EACH ELASTOMERIC JOINT SEALANT DATA SHEET AT END OF THIS SECTION.

A. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.

B. PLASTIC FOAM JOINT FILLERS: PREFORMED, COMPRESSIBLE, RESILIENT, NONSTAINING, NONWAXING, NONEXTRUDING TYPE, MADE OF FLEXIBLE PLASTIC FOAM OF MATERIAL INDICATED BELOW AND OF SIZE, SHAPE, AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.

C. BOND-breaker TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE AS RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT WHERE SUCH ADHESION WOULD RESULT IN SEALANT FAILURE. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

D. MISCELLANEOUS MATERIALS

A. PRIMER: MATERIAL RECOMMENDED BY JOINT SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED AND DETERMINED FROM PRECONSTRUCTION JOINT SEALANT-SUBSTRATE TESTS AND FIELD TESTS.

B. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING IN ANY WAY JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS WITH JOINT SURFACES.

C. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE JOINTS INDICATED TO RECEIVE JOINT SEALANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR JOINT CONFIGURATION, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING JOINT SEALANT PERFORMANCE. DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

A. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH RECOMMENDATIONS OF JOINT SEALANT MANUFACTURER.

3.3 INSTALLATION OF JOINT SEALANTS

A. GENERAL: COMPLY WITH JOINT SEALANT MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED, EXCEPT WHERE MORE STRINGENT REQUIREMENTS APPLY.

B. SEALANT INSTALLATION STANDARD: COMPLY WITH RECOMMENDATIONS OF ASTMC 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.

3.4 CLEANING

A. CLEAN OFF EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.

END OF SECTION

DIVISION 8 - OPENINGS

SECTION 08110 - STANDARD STEEL DOORS & FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. PROVIDE FRAMES COMPLYING WITH STEEL DOOR INSTITUTE "RECOMMENDED SPECIFICATIONS STANDARD STEEL DOORS AND FRAMES" ANSI/SDI-100 AND AS HEREIN SPECIFIED.

B. FIRE-RATED DOOR ASSEMBLIES: UNITS THAT COMPLY WITH NFPA 80, ARE IDENTICAL TO DOOR AND FRAME ASSEMBLIES WHOSE FIRE RESISTANCE CHARACTERISTICS HAVE BEEN DETERMINED PER ASTM E 152 AND WHICH ARE LABELED AND LISTED BY UL, FACTORY MUTUAL, NARMCO HIBERNIA, OR OTHER TESTING AND INSPECTING ORGANIZATION ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

1.3 DELIVERY, STORAGE AND HANDLING

A. DELIVER FRAMES CARDBOARD-WRAPPED OR CRATED TO PROVIDE PROTECTION DURING TRANSIT AND JOB STORAGE. PROVIDE ADDITIONAL PROTECTION TO PREVENT DAMAGE TO FINISH OF FACTORY-FINISHED FRAMES.

B. INSPECT FRAMES UPON DELIVERY FOR DAMAGE. MINOR DAMAGES MAY BE REPAIRED PROVIDED REFINISHED ITEMS ARE EQUAL IN ALL RESPECTS TO NEW WORK AND ACCEPTABLE TO BRANDPARTNERS; OTHERWISE, REMOVE AND REPLACE DAMAGED ITEMS AS DIRECTED.

C. STORE FRAMES AT BUILDING SITE UNDER COVER. PLACE UNITS ON MINIMUM 4-INCHES HIGH WOOD BLOCKING. AVOID USE OF NON-VENTED PLASTIC OR CANVAS SHELTERS WHICH COULD CREATE HUMIDITY CHAMBER. IF CARDBOARD WRAPPER ON DOOR BECOMES WET, REMOVE CARTON IMMEDIATELY. PROVIDE SPACER BETWEEN STACKED DOORS TO PROMOTE AIR CIRCULATION.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING: CECO CORP. OR CURRIER COMPANY OR STEELCRAFT MANUFACTURING COMPANY.

2.2 MATERIALS

A. HOT-ROLLED STEEL SHEETS AND STRIP: COMMERCIAL QUALITY, PICKLED AND OILED, COMPLYING WITH ASTM A 569 AND ASTM A 570.

B. COLD-ROLLED STEEL SHEETS: COMMERCIAL QUALITY CARBON STEEL, COMPLYING WITH ASTM A 366 AND ASTM A 568.

C. GALVANIZED STEEL SHEETS: ZINC-COATED CARBON STEEL SHEETS OF COMMERCIAL QUALITY, COMPLYING WITH ASTM A 526, OR DRAWING QUALITY, ASTM A 642, HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 525, WITH A60 OR G60 COATING DESIGNATION, MILL PHOSPHATIZED.

D. SUPPORTS AND ANCHORS: FABRICATE OF NOT LESS THAN 18-GAGE SHEET STEEL; GALVANIZED WHERE USED WITH GALVANIZED FRAMES.

E. INSERTS, BOLTS AND FASTENERS: MANUFACTURER'S STANDARD UNITS. WHERE ITEMS ARE TO BE EXPOSED TO WEATHER, HOT-DIP GALVANIZE IN COMPLIANCE WITH ASTM A 153, CLASS C OR D, OR ASTM F 2329.

F. SHOP APPLIED PAINT: APPLY AFTER FABRICATION. PRIMER RUST-INHIBITIVE ENAMEL OR PAINT, EITHER AIR-DRYING OR BAKING, SUITABLE AS A BASE FOR SPECIFIED FINISH PAINTS COMPLYING WITH ANSI A224.1, TEST PROCEDURE AND ACCEPTANCE CRITERIA FOR PRIME PAINTED STEEL SURFACES FOR STEEL DOORS AND FRAMES.

G. ALL STEEL PRODUCTS SHALL BE FABRICATED UTILIZING ONLY DOMESTICALLY PRODUCED STEEL.

2.3 FRAMES

A. PROVIDE METAL FRAMES FOR DOORS, TRANSOMS, SIDELIGHTS, BORROWED LIGHTS, AND OTHER OPENINGS OF TYPES AND STYLES AS SHOWN ON DRAWINGS AND SCHEDULES. CONCEAL FASTENINGS, UNLESS OTHERWISE INDICATED. FABRICATE FROM CC 920 MINIMUM 16-GAGE COLD-ROLLED STEEL.

1. FABRICATE FRAMES WITH MITERED OR COPED CORNERS, WELDED CONSTRUCTION.
2. FORM EXTERIOR FRAMES FROM 16-GAGE GALVANIZED STEEL.
3. FORM INTERIOR FRAMES FROM 16-GAGE STEEL.

B. DOOR SILENCERS: EXCEPT ON WEATHERSTRIPPED FRAMES, DRILL STOPS TO RECEIVE 3 SILENCERS ON STRIKE JAMBS OF SINGLE-DOOR FRAMES AND 2 SILENCERS ON HEADS OF DOUBLE-DOOR FRAMES.

2.4 DOORS

A. EXTERIOR DOORS: ANSI/SDI-100, GRADE III, EXTRA HEAVY-DUTY, MODEL 4, MINIMUM 16-GAGE GALVANIZED STEEL FACES.

B. INTERIOR DOORS: ANSI/SDI-100, GRADE III, EXTRA HEAVY-DUTY, MODEL 4, MINIMUM 16-GAGE STEEL FACES.

PART 3 - EXECUTION

3.1 INSTALLATION

A. GENERAL: INSTALL STANDARD STEEL FRAMES AND ACCESSORIES IN ACCORDANCE WITH FINAL SHOP DRAWINGS, MANUFACTURERS DATA, AND AS HEREIN SPECIFIED.

B. PLACING FRAMES: COMPLY WITH PROVISIONS OF SDI-105 "RECOMMENDED INSTALLATION INSTRUCTIONS FOR STEEL FRAMES," UNLESS OTHERWISE INDICATED.

3.2 ADJUST AND CLEAN

A. PRIME COAT TOUCH-UP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH ANY RUBBED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCH-UP OF COMPATIBLE AIR-DRYING PRIMER.

B. PROTECTION REMOVAL: IMMEDIATELY PRIOR TO FINAL INSPECTION, REMOVE PROTECTIVE PLASTIC WRAPPING FROM PREFINISHED DOORS.

C. FINAL ADJUSTMENTS: CHECK AND READJUST OPERATING HARDWARE ITEMS, LEAVING STEEL DOORS AND FRAMES UNDAMAGED AND IN COMPLETE AND PROPER OPERATING CONDITION.

END OF SECTION

SECTION 08210 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. QUALITY STANDARDS: COMPLY WITH THE FOLLOWING STANDARDS: NWMDA QUALITY STANDARD: 1.5-1 "INDUSTRY STANDARD FOR WOOD FLUSH DOORS", OF NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWMDA).

NWMDA QUALITY STANDARD: 1.5.1
2. AWI QUALITY STANDARD: "ARCHITECTURAL WOODWORK QUALITY STANDARDS".

B. OBTAIN DOORS FROM A SINGLE MANUFACTURER.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. PROTECT DOORS DURING TRANSIT, STORAGE AND HANDLING TO PREVENT DAMAGE, SOILING AND DETERIORATION. COMPLY WITH HANDLING PARTS OF REFERENCED STANDARDS AND RECOMMENDATIONS OF NWMDA PAMPHLET "HOW TO STORE, HANDLE, FINISH, INSTALL AND MAINTAIN WOOD DOORS", AS WELL AS WITH MANUFACTURER'S INSTRUCTIONS.

B. IDENTIFY EACH DOOR WITH INDIVIDUAL OPENING NUMBERS WHICH CORRELATE WITH DESIGNATION SYSTEM USED OF DRAWINGS AND SCHEDULES, DOOR, FRAMES, AND HARDWARE. USING TEMPORARY, REMOVABLE OR CONCEALED MARKINGS.

1.4 PROJECT CONDITIONS

A. CONDITIONING: DO NOT DELIVER OR INSTALL DOORS UNTIL CONDITIONS FOR TEMPERATURE AND RELATIVE HUMIDITY HAVE BEEN STABILIZED AND WILL BE MAINTAINED IN STORAGE AND INSTALLATION AREAS DURING REMAINDER OF CONSTRUCTION PERIOD TO COMPLY WITH THE FOLLOWING REQUIREMENTS APPLICABLE TO PROJECTS GEOGRAPHICAL LOCATIONS.

1.5 WARRANTY

A. GENERAL: WARRANTIES SHALL BE IN ADDITION, AND NOT A LIMITATION OF, OTHER RIGHTS THE OWNER MAY HAVE UNDER THE CONTRACT DOCUMENTS.

B. DOOR MANUFACTURER'S WARRANTY: SUBMIT WRITTEN AGREEMENT ON DOOR MANUFACTURER'S STANDARD FORM SIGNED BY MANUFACTURER, INSTALLER AND CONTRACTOR, AGREEING TO REPAIR OR REPLACE DEFECTIVE DOORS THAT MAY HAVE BEEN WARPED (BOW, CUP, OR TWIST) OR THAT SHOW TELEGRAPHING OF CORE CONSTRUCTION IN FACE VENEERS, OR DO NOT CONFORM TO TOLERANCE LIMITATIONS OF REFERENCED QUALITY STANDARDS.

1. WARRANTY SHALL ALSO INCLUDE REINSTALLATION WHICH MAY BE REQUIRED DUE TO REPAIR OR REPLACEMENT OF DEFECTIVE DOORS WHERE DEFECT WAS NOT DETERMINED PRIOR TO HANGING.
2. WARRANTY SHALL BE IN EFFECT DURING THE FOLLOWING PERIOD(S) FROM DATE OF SUBSTANTIAL COMPLETION. SOLID CORE DOORS: LIFETIME.

C. CONTRACTORS' RESPONSIBILITIES: REPLACE OR REFURNISH DOORS WHERE CONTRACTORS' WORK CONTRIBUTED TO REJECTION OR TO VOIDING OF MANUFACTURER'S WARRANTY.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. PROVIDE SOLID CORE DOORS WITH WOOD VENEER FACES FROM ONE OF THE FOLLOWING: ALGOMA HARDWOODS, INC. OR EGGERS INDUSTRIES, ARCHITECTURAL DOOR OR WEYERHAUSER COMPANY.

2.2 INTERIOR FLUSH WOOD DOORS

A. FACES: PREMIUM GRADE, BOOKED MATCHED VENEER FACES AND BANDED EDGES.

B. WOOD SPECIES: PREMIUM GRADE, SLICED MAPLE FACED VENEER.

C. CONSTRUCTION: PC-5 (PARTICLE BOARD CORE, 5 PLY.)

D. FACTORY FINISHED: COLOR AS SELECTED BY OWNER.

E. VISION FRAMES: WOOD MOLDINGS TO MATCH VENEER.

2.3. FIRE-RATED SOLID CORE DOORS

A. FACES AND AWI GRADE: PROVIDE FACES AND GRADE TO MATCH NON-RATED DOORS IN SAME AREA OF BUILDING, UNLESS OTHERWISE INDICATED.

B. CONSTRUCTION: MANUFACTURER'S STANDARD CORE CONSTRUCTION AS REQUIRED TO PROVIDE FIRE-RESISTANT RATING INDICATED.

C. EDGE CONSTRUCTION: PROVIDE MANUFACTURER'S STANDARD LAMINATED EDGE CONSTRUCTION WITH HARDWOOD BANDING CAPABILITY AND SPLIT RESISTANCE AS COMPARED TO EDGES COMPOSED OF A SINGLE LAYER OF TREATED LUMBER.

D. PAIRS: FURNISH FORMED STEEL EDGES AND ASTRAGALS FOR PAIRS OF FIRE-RELATED DOORS, UNLESS OTHERWISE INDICATED.

2.4 FABRICATION

A. FABRICATE FLUSH WOOD DOORS TO COMPLY WITH THE FOLLOWING REQUIREMENTS. FACTORY-PREFIT AND PRE-MACHINE DOORS TO FIT FRAME OPENING SIZES INDICATED WITH THE FOLLOWING INTERIOR CLEARANCES AND BEVELS: COMPLY WITH TOLERANCE REQUIREMENTS OF AWI FOR PREFITTING. COMPLY WITH FINAL HARDWARE SCHEDULES AND DOOR FRAME SHOP DRAWINGS AND WITH HARDWARE TEMPLATES. COORDINATE MEASUREMENTS OF HARDWARE MORTISES IN METAL FRAMES TO VERIFY DIMENSIONS AND ALIGNMENT BEFORE PROCEEDING WITH FACTORY PREMATCHING.

B. OPENINGS: CUT AND TRIM OPENINGS THROUGH DOORS TO COMPLY WITH APPLICABLE REQUIREMENTS OF REFERENCED STANDARDS FOR KIND(S) OF DOORS REQUIRED. TRIM OPENINGS WITH MOLDINGS OF MATERIAL AND PROFILE INDICATED.

E. SYSTEM PERFORMANCE REQUIREMENTS.

1. STRUCTURAL PERFORMANCE: DESIGN, ENGINEER, FABRICATE, AND INSTALL THE GLAZED SYSTEM SPECIFIED HEREIN TO WITHSTAND THE EFFECTS OF A WIND LOAD OF SPECIFIED MAGNITUDE AND CHARACTERISTICS AND HAVE BEEN INSTALLED WITH PROPER BUILDING CLEARANCES. REJECT DOORS WITH DEFECTS.

B. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

2.3 INSTALLATION

A. HARDWARE: FOR INSTALLATION SEE FINISH HARDWARE, SECTION 08710 OF THESE SPECIFICATIONS.

B. MANUFACTURER'S INSTRUCTIONS: INSTALL WOOD DOORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND OF REFERENCED AWI STANDARD AND AS INDICATED. INSTALL FIRE-RATED DOORS ACCORDANCE WITH NFPA-80.

C. PREFIT DOORS: FIT TO FRAMES FOR UNIFORM CLEARANCE AT EACH EDGE.

3.3 ADJUSTING AND PROTECTING

A. OPERATION: REHANG OR REPLACE DOORS THAT DO NOT SWING OR OPERATE PROPERLY.

B. FINISHED DOORS: REFINISH OR REPLACE DOOR DAMAGED DURING INSTALLATION.

C. PROTECT DOORS AS RECOMMENDED BY DOOR MANUFACTURER TO ENSURE THAT WOOD DOORS WILL BE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

END OF SECTION

SECTION 08305 - ACCESS DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. SINGLE-SOURCE RESPONSIBILITY: OBTAIN ACCESS DOORS FOR ENTIRE PROJECT FROM ONE SOURCE FROM A SINGLE MANUFACTURER.

B. SIZE VARIATIONS: OBTAIN BRANDPARTNERS ACCEPTANCE OF MANUFACTURER'S STANDARD SIZE UNITS, WHICH MAY VARY SLIGHTLY FROM SIZES INDICATED.

C. COORDINATION: FURNISH INSERTS AND ANCHORING DEVICES THAT MUST BE BUILT INTO OTHER WORK FOR INSTALLATION OF ACCESS DOORS. COORDINATE DELIVERY WITH OTHER WORK TO AVOID DELAY.

1.3 PROJECT CONDITIONS

A. VERIFICATION: OBTAIN SPECIFIC LOCATIONS AND SIZES FOR REQUIRED ACCESS DOORS FROM TRADES REQUIRING ACCESS TO CONCEALED EQUIPMENT, AND INDICATE ON SUBMITTAL SCHEDULE.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MILCOR INC. 22 1/2" X 22 1/2" DW ACCESS DOOR (OR APPROVED EQUAL BY CONTRACTOR). J.L. INDUSTRIES OR KARP ASSOCIATES INC.

2.2 MATERIALS AND FABRICATION

A. GENERAL: FURNISH EACH ACCESS DOOR ASSEMBLY MANUFACTURED AS AN INTEGRAL UNIT, COMPLETE WITH ALL PARTS, AND READY SPACE FOR INSTALLATION.

B. STEEL ACCESS DOORS AND FRAMES: FABRICATE UNITS OF CONTINUOUS WELDED STEEL CONSTRUCTION UNLESS OTHERWISE INDICATED. GRIND AND DRESS WELDS AND FLUSH WITH ADJACENT SURFACES. FURNISH ATTACHMENT DEVICES AND FASTENERS OF TYPE REQUIRED TO SECURE ACCESS PANELS TO TYPES OF SUPPORT SHOWN.

C. FRAMES: FABRICATE FROM 16-GAGE STEEL.

D. FLUSH PANEL DOORS: FABRICATE FROM NOT LESS THAN 14-GAGE SHEET STEEL WITH CONCEALED SPRING HINGES OR CONCEALED CONTINUOUS PIANO HINGE THAT OPEN 175 DEGREES. FINISH WITH MANUFACTURER'S FACTORY-APPLIED PRIME PAINT.

E. RECESSED PANEL DOORS: FABRICATE FROM NOT LESS THAN 18-GAGE SHEET STEEL WITH FACE OF PANEL FORMED TO PROVIDE RECESS BELOW SURFACE OF APPLIED FINISH. REINFORCE PANEL AS REQUIRED TO PREVENT BUCKLING. FINISH WITH MANUFACTURER'S FACTORY-APPLIED PRIME PAINT. FURNISH RECESSED PANELS FOR CONCEALED INSTALLATION IN DRYWALL/ACOUSTIC TILE CEILING SYSTEMS.

F. LOCKING DEVICES: FURNISH FLUSH, SCREWDRIVER-OPERATED CAM LOCKS OF NUMBER REQUIRED TO HOLD DOOR IN FLUSH, SMOOTH PLANE WHEN CLOSED. PROVIDE ONE CYLINDER LOCK PER ACCESS DOOR. FURNISH 2 KEYS PER LOCK. KEY ALL LOCKS ALIKE, UNLESS OTHERWISE SCHEDULED. FOR RECESSED PANEL DOORS, PROVIDE ACCESS SLEEVES FOR EACH LOCKING DEVICE. FURNISH PLASTIC GROMMETS AND INSTALL IN HOLES CUT THROUGH FINISH.

PART 3 - EXECUTION

3.1 INSTALLATION

A. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ACCESS DOORS.

B. COORDINATE INSTALLATION WITH WORK OF OTHER TRADES.

C. SET FRAMES ACCURATELY IN POSITION AND SECURELY ATTACH TO SUPPORTS WITH FACE PANELS PLUMB AND LEVEL IN RELATION TO ADJACENT FINISH SURFACES.

D. IN MASONRY CONSTRUCTION, SET FRAME IN PLACE AS MASONRY LAID AROUND FRAME. GROUT VOIDS BETWEEN FRAME AND MASONRY FULL WITH MORTAR.

3.2 ADJUST AND CLEAN

A. ADJUST HARDWARE AND PANELS AFTER INSTALLATION FOR PROPER OPERATION.

B. REMOVE AND REPLACE PANELS OR FRAMES THAT ARE WARPED, BOWED, OR OTHERWISE DAMAGED.

END OF SECTION

SECTION 08400 - ALUMINUM ENTRANCES AND STOREFRONT WINDOWS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT APPLY TO THIS SECTION.

1.2 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WITH NOT LESS THAN 5 YEARS SUCCESSFUL INSTALLATION HAS HAS COMPLETED INSTALLATIONS OF ALUMINUM STOREFRONT AND ENTRANCES SIMILAR IN DESIGN AND EXTENT TO THOSE REQUIRED FOR THE PROJECT AND HAVE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

B. FABRICATOR QUALIFICATIONS: PROVIDE ALUMINUM ENTRANCES AND STOREFRONT SYSTEMS FABRICATED BY A FIRM EXPERIENCED IN FABRICATING SYSTEMS THAT ARE SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND HAVE A RELIABLE RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE. THE FABRICATOR SHALL HAVE SUFFICIENT PRODUCTION CAPACITY TO PRODUCE COMPONENTS WITHOUT CAUSING DELAY IN PROGRESS OF THE WORK.

C. SINGLE SOURCE RESPONSIBILITY: OBTAIN ALUMINUM ENTRANCE, OPERATING HARDWARE, AND STOREFRONT SYSTEMS FROM ONE SOURCE AND FROM A SINGLE MANUFACTURER, UNLESS OTHERWISE INDICATED.

D. DESIGN CRITERIA: THE DRAWINGS INDICATE THE SIZE, PROFILE AND DIMENSIONAL REQUIREMENTS OF ALUMINUM ENTRANCE AND STOREFRONT WORK REQUIRED AND ARE BASED ON THE SPECIFIC TYPES AND MODELS INDICATED.

E. SYSTEM PERFORMANCE REQUIREMENTS.

1. STRUCTURAL PERFORMANCE: DESIGN, ENGINEER, FABRICATE, AND INSTALL THE GLAZED ALUMINUM SYSTEMS SPECIFIED HEREIN TO WITHSTAND THE EFFECTS OF A WIND LOAD OF SPECIFIED MAGNITUDE AND CHARACTERISTICS AND HAVE BEEN INSTALLED WITH PROPER BUILDING CLEARANCES. REJECT DOORS WITH DEFECTS.

B. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

2.3 INSTALLATION

A. HARDWARE: FOR INSTALLATION SEE FINISH HARDWARE, SECTION 08710 OF THESE SPECIFICATIONS.

B. MANUFACTURER'S INSTRUCTIONS: INSTALL WOOD DOORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND OF REFERENCED AWI STANDARD AND AS INDICATED. INSTALL FIRE-RATED DOORS ACCORDANCE WITH NFPA-80.

C. PREFIT DOORS: FIT TO FRAMES FOR UNIFORM CLEARANCE AT EACH EDGE.

3.3 ADJUSTING AND