Part 1 - General

- A. THIS SECTION INCLUDES SEALANTS FOR THE FOLLOWING APPLICATIONS:
- B. EXTERIOR JOINTS IN THE FOLLOWING VERTICAL SURFACES AND NONTRAFFIC HORIZONTAL SURFACES:
- A. JOINTS IN DIMENSION STONE CLADDING. B. JOINTS IN GLASS UNIT MASONRY ASSEMBLIES.
- C. JOINTS BETWEEN METAL PANELS.
- D. BUTT JOINTS BETWEEN GLASS UNITS. E. JOINTS IN STRUCTURAL SILICONE GLAZED CURTAIN WALL SYSTEM.
- F. JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.
- G. PERIMETER JOINTS BETWEEN MATERIALS LISTED ABOVE AND FRAMES OF DOORS AND WINDOWS.
- H. OTHER JOINTS AS INDICATED.
- I. EXTERIOR JOINTS IN THE FOLLOWING HORIZONTAL TRAFFIC SURFACES: A. JOINTS IN STONE PAVING UNITS, INCLUDING STEPS.
- B. OTHER JOINTS AS INDICATED.
- C. INTERIOR JOINTS IN THE FOLLOWING VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES: A. CONTROL AND EXPANSION JOINTS ON EXPOSED INTERIOR SURFACES OF EXTERIOR WALLS.
- B. PERIMETER JOINTS OF EXTERIOR OPENINGS WHERE INDICATED.
- C. TILE CONTROL AND EXPANSION JOINTS. D. PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS, AND ELEVATOR ENTRANCES.
- E. JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
- F. BUTT JOINTS BETWEEN GLASS UNITS.
- G. JOINTS IN STRUCTURAL SILICONE GLAZED CURTAIN WALL SYSTEM. H. JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.
- I. OTHER JOINTS AS INDICATED.
- INTERIOR JOINTS IN THE FOLLOWING HORIZONTAL TRAFFIC SURFACES:
- A. CONTROL AND EXPANSION JOINTS IN STONE FLOORING.
- B. CONTROL AND EXPANSION JOINTS IN TILE FLOORING. C. OTHER JOINTS AS INDICATED.
- B. SINGLE SUBCONTRACT RESPONSIBILITIES: REFER TO DIVISION 8 SECTION "GLAZED ALUMINUM CURTAIN WALLS" FOR REQUIREMENTS APPLICABLE TO SINGLE SUBCONTRACT RESPONSIBILITY.

1.2 SUBMITTALS TO OWNER'S REPRESENTATIVE

- A. PRODUCT DATA: SUBMIT PRODUCT DATA FOR EACH JOINT-SEALANT PRODUCT INDICATED AND THE FOLLOWING
- B. WRITTEN CERTIFICATION FROM MANUFACTURERS OF JOINT SEALANTS ATTESTING THAT THEIR PRODUCTS COMPLY WITH SPECIFICATION REQUIREMENTS AND ARE SUITABLE FOR THE USE INDICATED AS VERIFIED THROUGH MANUFACTURERS IN-HOUSE TESTING LABORATORY. A. COMPLETE INSTRUCTIONS FOR HANDLING, STORAGE, MIXING, PRIMING, INSTALLATION, CURING AND PROTECTION OF EACH TYPE OF SEALANT.

B. MANUFACTURER'S LETTER, CLEARLY INDICATING PROPOSED LOT NUMBERS OF EACH SEALANT TO BE SUPPLIED AND THEIR EXPIRATION DATE

- 2. LABORATORY AND FIELD TEST RESULTS CONFIRMING COMPATIBILITY AND/OR ADHESION FOR SPECIFIC MATERIALS PROPOSED FOR
- APPLICATION.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS, INCLUDING FULL-SIZE DETAILS OF EACH CONDITION. C. WARRANTIES: SUBMIT SPECIFIED WARRANTIES.

1.3 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: EXPOSED SEALANT WORK (SEALANTS USED FOR AIR AND WEATHERSEALS WHICH ARE EXTERNAL TO CURTAIN WALL SYSTEMS AT THEIR PERIMETER, METAL PANEL TO PANEL JOINTS, EXTERIOR STONE CLADDING JOINTS) SHALL BE PERFORMED BY A SINGLE (I.E. ONE) FIRM SPECIALIZING IN THE INSTALLATION OF SEALANTS WHO HAS SUCCESSFULLY PRODUCED WORK COMPARABLE TO THIS PROJECT, IN NOT LESS THAN THREE PROJECTS OF SIMILAR SCOPE TO THE SATISFACTION OF THE ARCHITECT, AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE FOR A PERIOD OF 10 YEARS. CONCEALED SEALANT WORK (SEALANTS WHICH ARE INTERNAL TO METAL FRAMED CURTAIN WALL SYSTEMS, SKYLIGHTS, SLOPED GLAZING AND PROVIDING AN AIR SEAL) SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR PROVIDING ERECTION OF THE RESPECTIVE SYSTEM.
- B. SOURCE LIMITATIONS: OBTAIN EACH TYPE OF JOINT SEALANT FROM A SINGLE MANUFACTURER.

1.4 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 DATE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.
- B. STORE AND HANDLE MATERIALS IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

- A. ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNDER THE FOLLOWING CONDITIONS: 16. WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE
- BELOW 40 DEG F (4.4 DEG C). 17. WHEN JOINT SUBSTRATES ARE WET.
- B. JOINT-WIDTH CONDITIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHERE JOINT WIDTHS ARE LESS THAN THOSE ALLOWED BY JOINT SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.
- C. JOINT-SUBSTRATE CONDITIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNTIL CONTAMINANTS CAPABLE OF

INTERFERING WITH ADHESION ARE REMOVED FROM JOINT SUBSTRATES.

- 1.6 WARRANTY A. GENERAL WARRANTY: SPECIAL WARRANTIES SPECIFIED IN THIS ARTICLE SHALL NOT DEPRIVE OWNER OF OTHER RIGHTS OWNER MAY HAVE UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AND SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES MADE BY CONTRACTOR UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. SPECIAL INSTALLER'S WARRANTY: WRITTEN WARRANTY, SIGNED BY INSTALLER AGREEING TO REPAIR OR REPLACE ELASTOMERIC JOINT SEALANT WORK WHICH HAS FAILED TO PROVIDE A WEATHERTIGHT SYSTEM WITHIN SPECIFIED WARRANTY PERIOD. 1. WARRANTY PERIOD: TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- C. SPECIAL MANUFACTURER'S WARRANTIES: WRITTEN WARRANTIES (WEATHERSEAL AND STAIN RESISTANCE), SIGNED BY ELASTOMERIC SEALANT MANUFACTURER AGREEING TO FURNISH ELASTOMERIC JOINT SEALANTS TO REPAIR OR REPLACE THOSE THAT FAIL TO PROVIDE AIRTIGHT AND WATERTIGHT JOINTS, OR FAIL IN ADHESION, COHESION, ABRASION-RESISTANCE, STAIN-RESISTANCE, WEATHER RESISTANCE,
- AN INHERENT QUALITY OF THE MATERIAL WITHIN SPECIFIED WARRANTY PERIOD. 1. WARRANTY PERIOD: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. COMPATIBILITY: PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS STATED BY SEALANT MANUFACTURER'S PUBLISHED DATA, AND AS SUBSTANTIATED BY THE MANUFACTURER FOR EACH APPLICATION THROUGH TESTING.

OR GENERAL DURABILITY OR APPEAR TO DETERIORATE IN ANY OTHER MANNER NOT CLEARLY SPECIFIED IN THE MANUFACTURER'S DATA AS

- B. COLORS: FOR FULLY CONCEALED JOINTS, PROVIDE MANUFACTURER'S STANDARD COLOR OF SEALANT WHICH HAS THE BEST OVERALL PERFORMANCE CHARACTERISTICS FOR THE APPLICATION SHOWN. FOR EXPOSED JOINTS PROVIDE COLORS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
- C. MANUFACTURER'S REPRESENTATIVE: DO NOT USE ELASTOMERIC SEALANT PRODUCED BY ANY MANUFACTURER WHO WILL NOT AGREE TO SEND A QUALIFIED TECHNICAL REPRESENTATIVE TO THE PROJECT SITE WHEN REQUESTED, FOR THE PURPOSE OF RENDERING ADVICE CONCERNING THE PROPER INSTALLATION OF MANUFACTURER'S MATERIALS.

2.2 ELASTOMERIC JOINT SEALANTS

- A. GENERAL: USE SELF-LEVELING COMPOUNDS FOR HORIZONTAL JOINTS IN PAVEMENTS AND NON-SAG COMPOUNDS FOR ALL OTHER AREAS
- EXCEPT AS SHOWN OR SPECIFIED. B. SILICONE SEALANTS (NON-SAG):
- 1. TYPICAL EXTERIOR WALL JOINTS (TWO-PART SILICONE SEALANTS):

A. PROPERTIES:

- 1) STANDARDS: COMPLY WITH ASTM C920, TYPE M, GRADE NS, CLASS 25; USE NT, M, A AND O.
- 2) PERFORMANCE: NON-STAIN, NON-BLEED, NON-STREAKING TO SEALED AND ADJACENT SUBSTRATES. THE MINIMUM PLI VALUE AFTER 7 DAY IMMERSION SHALL NOT BE LESS THAN 13 WHEN TESTED IN STRICT ACCORDANCE WITH ASTM C794 ADHESION IN PEEL.
- 3) CURE SYSTEM AND OIL CONTENT: NEUTRAL-CURE SYSTEM SPECIFICALLY MANUFACTURED WITH CONTROLLED OIL CONTENT TO ELIMINATE OIL MIGRATION INTO SEALED SUBSTRATES AND RESIDUE RUNDOWN OVER AND ONTO ADJACENT SUBSTRATES.
- B. AVAILABLE PRODUCT AND MANUFACTURERS:
- 1) 756 SILICONE BUILDING SEALANT HP WITH ADDITIVE; DOW CORNING.
- 2) TREMCO DYMERIC. VULKEM.
- 4) MAMECO/PECORA 922.
- 1. BUTT GLAZING AT CURTAIN WALL VISION GLASS (ONE-PART SILICONE SEALANTS):
- A. WEATHERSEAL BEAD:
- PROPERTIES:
- A) STANDARDS: COMPLY WITH ASTM C920, TYPE S, GRADE NS, CLASS 25; USE NT, G, AND A.

- B) PERFORMANCE: SEALANT SHALL BE CAPABLE OF BEING APPLIED TO SURFACES HAVING A SURFACE TEMPERATURE RANGE OF -20 TO +120 DEGREES F. (-29 TO +49 DEGREES C.). CURED SEALANT WILL NOT HARDEN IN COLD, OR SOFTEN IN HEAT, WHEN EXPOSED TO A TEMPERATURE RANGE OF -65 TO +300 DEGREES F. (-54 TO +149 DEGREES C.).
- C) CURE SYSTEM: NEUTRAL-CURE, MEDIUM MODULUS, SYSTEM WHICH IS COMPATIBLE WITH AND ADHERENT TO THE TWO PART INSULATING GLASS EDGE SEALS, GLAZING ACCESSORIES AND METAL WINDOW FRAME MATERIALS BEING PROVIDED FOR THE PROJECT.
- D) COLOR: WHITE.
- 1) AVAILABLE PRODUCTS:
- A) DOW CORNING CORPORATION; 795 SILICONE BUILDING SEALANT.
- B) TREMCO; SPECTREM 2.
- A. STRUCTURAL BEAD:
- A) STANDARDS: COMPLY WITH ASTM C1184 AND ASTM C920, TYPE S, GRADE NS, CLASS 25; USE NT, G, AND A
- B) PERFORMANCE: THE MINIMUM TENSILE ADHESION STRENGTH SHALL BE 120 PSI WITH THE SEALANT DESIGN TENSILE AND SHEAR STRESS CALCULATED AT 20 PSI RESULTING IN A MINIMUM 6 TO 1 SAFETY FACTOR. PROVIDE LABORATORY TESTING AND CALCULATIONS INDICATING PRODUCT WORKING STRESS AND SAFETY FACTORS. IN ADDITION PROVIDE INSULATING GLASS MANUFACTURERS WRITTEN CONCURRENCE, BASED ON TESTING TO ACTUAL JOB PRODUCTION RUN SAMPLES OF GLASS AND FRAMING MATERIALS, THE PRODUCT IS PROPER FOR THE USES SHOWN AND SPECIFIED, SEALANT SHALL BE CAPABLE OF BEING APPLIED TO SURFACES HAVING A SURFACE TEMPERATURE RANGE OF -15 TO +140 DEGREES F. (-26 TO +60 DEGREES C.). CURED SEALANT WILL NOT HARDEN IN COLD, OR SOFTEN IN HEAT, WHEN EXPOSED TO A TEMPERATURE RANGE OF -40 TO +300 DEGREES F. (-40 TO +149 DEGREES C.).
- C) CURE SYSTEM: SHELF STORAGE STABLE, NEUTRAL-CURE, MEDIUM MODULUS, SYSTEM WHICH IS COMPATIBLE AND ADHERENT TO THE TWO PART INSULATING GLASS EDGE SEALS, GLAZING ACCESSORIES AND METAL WINDOW FRAME MATERIALS BEING PROVIDED FOR THE PROJECT. D) COLOR: WHITE.
- 2) AVAILABLE PRODUCTS:
- A) DOW CORNING CORPORATION; 995 SILICONE STRUCTURAL ADHESIVE.
- B) TREMCO; PROGLAZE SG.
- B. TWO PART POLYURETHANE SEALANTS (NON-SAG):
- 1. TYPICAL EXTERIOR WALL JOINTS (TWO-PART POLYURETHANE SEALANTS):
- 1) STANDARDS: COMPLY WITH ASTM C920, TYPE M, GRADE NS, CLASS 25; USE NT, M, A AND O.
- 2) PERFORMANCE: NON-STAIN, NON-BLEED, NON-STREAKING TO SEALED AND ADJACENT SUBSTRATES. THE MINIMUM PLI VALUE AFTER 7 DAY
- IMMERSION SHALL NOT BE LESS THAN 13 WHEN TESTED IN STRICT ACCORDANCE WITH ASTM C794 ADHESION IN PEEL. B. PRODUCTS AND MANUFACTURERS: ONE OF THE FOLLOWING:
- PECORA CORPORATION; DYNATROL II.
- 2. SONNEBORN BUILDING PRODUCTS DIV., CHEMREX, INC.; SONOLASTIC NP-2 $^{\mathrm{TM}}$.
- TREMCO, AN RPM CO.; DYMERIC 240.
- C. TWO PART POLYURETHANE SEALANT (SELF LEVELING): ASTM C920, TYPE M,
- D. GRADE P, CLASS 25; USE T; ONE OF THE FOLLOWING: 1. PECORA CORPORATION; UREXPAN NR-200.
- 2. SONNEBORN BUILDING PRODUCTS DIV., CHEMREX, INC.; SONOLASTIC SL 2 $^{\mathrm{TM}}$.
- 3. TREMCO, AN RPM CO.; THC 900. E. MILDEW-RESISTANT SILICONE SEALANT (USE FOR JOINTS AT TOILET FIXTURES, PUBLIC TOILET ROOM COUNTERTOPS AND VANITIES, AND AT JANITOR CLOSET MOP RECEPTOR TO WALL TRANSITION): COMPLYING WITH ASTM C920, TYPE S (SINGLE COMPONENT), GRADE NS (NON-SAG), CLASS 25, USE NT (NON-TRAFFIC), SUBSTRATE USES G, A, AND O; AND CONTAINING A FUNGICIDE FOR MILDEW RESISTANCE.
- 1. PRODUCTS: PROVIDE ONE OF THE FOLLOWING AVAILABLE PRODUCTS: A. DOW CORNING: 786 MILDEW RESISTANT SILICONE SEALANT.
- B. GE SILICONES; SANITARY SCS 1700. C. PECORA CORPORATION; 898 SILICONE SANITARY SEALANT.

2.3 LATEX JOINT SEALANTS

- A. LATEX SEALANT: NON-ELASTOMERIC, ONE PART, NON-SAG, PAINTABLE LATEX SEALANT THAT IS RECOMMENDED FOR EXPOSED APPLICATIONS ON THE INTERIOR. COMPLYING WITH ASTM C 834:
- 1. PRODUCTS: PROVIDE ONE OF THE FOLLOWING: A. PECORA CORPORATION; AC-20 + SILICONE
- B. SONNEBORN BUILDING PRODUCTS DIV., CHEMREX, INC.; SONOLASTIC SONOLAC. C. TREMCO, AN RPM CO.; TREMFLEX 834.

2.4 JOINT-SEALANT BACKING

- A. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NON STAINING; 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.
- A. CYLINDRICAL SEALANT BACKINGS: ONE OF THE FOLLOWING PREFORMED, COMPRESSIBLE, RESILIENT, NON STAINING, NON WAXING, NON EXTRUDING BACKINGS OF FLEXIBLE PLASTIC FOAM COMPLYING WITH ASTM C 1330, AND OF TYPE INDICATED BELOW. SELECT SHAPE AND DENSITY OF CYLINDRICAL SEALANT BACKINGS IN CONSULTATION WITH THE MANUFACTURER FOR PROPER PERFORMANCE IN SPECIFIC CONDITION OF USE IN EACH CASE.
- 1. TYPE C: CLOSED-CELL POLYETHYLENE FOAM MATERIAL WITH A SURFACE SKIN, WHICH IS NON ABSORBENT TO LIQUID WATER AND GAS, NON-OUTGASSING IN UNRUPTURED STATE; ONE OF THE FOLLOWING:
- A. HBR CLOSED CELL BACKER ROD; NOMACO, INC...
- B. SONNEBORN SONOLASTIC CLOSED-CELL BACKER-ROD; CHEMREX, INC.
- 2. TYPE B: BI-CELLULAR RETICULATED, POLYMERIC FOAM MATERIAL WITH A SURFACE SKIN, NON OUTGASSING, WITH A DENSITY OF BETWEEN 24-48 KG/CUBIC METER PER ASTM D1622 AND MINIMUM TENSILE STRENGTH OF GREATER THAN 200 KPA PER ASTM D1623. AND WITH WATER ABSORPTION LESS THAN 0.10 GM/CC PER ASTM C1016; ONE OF THE FOLLOWING:
- A. SOFROD; NOMACO, INC. B. SONOLASTIC SOFT BACKER-ROD; CHEMREX, INC.
- C. BOND-BREAKER TAPE: POLYETHYLENE, TFE FLUOROCARBON, OR OTHER PLASTIC TAPE 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.
- WEEP AND VENT TUBES: CLEAR PLASTIC (PVC) TUBING. MINIMUM 1/4 INCH (6.35 MM) INSIDE DIAMETER. AND OF LENGTH AS REQUIRED TO EXTEND BETWEEN EXTERIOR FACE OF SEALANT AND OPEN CAVITY BEHIND.
- 1. AT WINDOW AND CURTAIN WALL SYSTEMS, WHERE REQUIRED BY SYSTEM DESIGNER, PROVIDE GUTTER TERMINATION OF TUBE WITH PREFORMED NIPPLES SUITABLE FOR SEALING TO GUTTER.
- E. CORK JOINT FILLER: RESILIENT AND NON EXTRUDING, ASTM D1752, TYPE II.

2.5 MISCELLANEOUS MATERIALS

- A. PRIMER: MATERIAL RECOMMENDED, AS VERIFIED THROUGH COMPATIBILITY AND ADHESION TESTING, BY JOINT SEALANT MANUFACTURER FOR THE SUBSTRATES INDICATED TO BE SEALED.
- 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 JOINT SUBSTRATES AND ADJACENT
- NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS WITH JOINT SUBSTRATES . MASKING TAPE: NON STAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND WHICH WILL NOT STAIN NOR MAR THE FINISH OF SURFACES ADJACENT TO JOINTS TO WHICH IT IS APPLIED.

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. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

- A. SILICONE GLAZING SEALANTS: REFER TO DIVISION 8 SECTION "GLAZING".
- B. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE FOLLOWING REQUIREMENTS:
- 1. REMOVE FOREIGN MATERIAL FROM JOINT SUBSTRATES THAT COULD INTERFERE WITH ADHESION OF JOINT SEALANT, INCLUDING DUST, PAINTS (EXCEPT FOR PERMANENT, PROTECTIVE COATINGS TESTED AND APPROVED FOR SEALANT ADHESION AND COMPATIBILITY BY SEALANT MANUFACTURER). EXISTING JOINT SEALANTS, EXISTING BACKER RODS, EXISTING WATERPROOFING MATERIALS, EXISTING WATER-REPELLENT TREATMENTS, OIL, GREASE, WATER, SURFACE DIRT, AND FROST.
- 2. CLEAN CONCRETE, MASONRY, UNGLAZED SURFACES OF TILE, AND SIMILAR POROUS JOINT SUBSTRATE SURFACES BY BRUSHING, GRINDING, BLAST CLEANING, MECHANICAL ABRADING, OR A COMBINATION OF THESE METHODS TO PRODUCE A CLEAN, SOUND SUBSTRATE CAPABLE OF DEVELOPING OPTIMUM BOND WITH JOINT SEALANTS. REMOVE LOOSE PARTICLES REMAINING FROM ABOVE CLEANING OPERATIONS BY VACUUMING OR BLOWING OUT JOINTS WITH OIL-FREE COMPRESSED AIR.
- 3. REMOVE LAITANCE AND FORM-RELEASE AGENTS FROM CONCRETE.
- 4. CLEAN METAL, GLASS, PORCELAIN ENAMEL, GLAZED SURFACES OF TILE, AND OTHER NONPOROUS SURFACES WITH CHEMICAL CLEANERS OR

- OTHER MEANS THAT DO NOT STAIN, HARM SUBSTRATES, OR LEAVE RESIDUES CAPABLE OF INTERFERING WITH ADHESION OF JOINT
- C. JOINT PRIMING (ELASTOMERIC SEALANTS ONLY): PRIME JOINT SUBSTRATES WHERE RECOMMENDED IN WRITING BY JOINT SEALANT MANUFACTURER, BASED ON PRIOR TESTING AND EXPERIENCE. APPLY PRIMER TO COMPLY WITH JOINT SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS. CONFINE PRIMERS TO AREAS OF JOINT-SEALANT BOND; DO NOT ALLOW SPILLAGE OR MIGRATION ONTO ADJOINING
- D. MASKING TAPE: USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT WITH ADJOINING SURFACES THAT OTHERWISE WOULD BE PERMANENTLY

3.3 INSTALLATION OF JOINT SEALANTS

- A. GENERAL: COMPLY WITH JOINT SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLICATIONS INDICATED UNLESS MORE STRINGENT REQUIREMENTS APPLY.
- 1. SILICONE GLAZING SEALANTS: REFER TO DIVISION 8 SECTION "GLAZING" FOR INSTALLATION
- B. SEALANT INSTALLATION STANDARD: COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.
- C. INSTALLATION OF SEALANT BACKINGS: INSTALL SEALANT BACKINGS TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
- 1. INSTALL SEALANT BACKINGS OF TYPE INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT
- A. DO NOT LEAVE GAPS BETWEEN ENDS OF SEALANT BACKINGS. TRIM FOR TIGHT FIT AROUND OBSTRUCTIONS OR ELEMENTS PENETRATING THE JOINT.
- B. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR SEALANT BACKINGS.
- C. REMOVE ABSORBENT SEALANT BACKINGS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY
- 2. INSTALL BOND-BREAKER TAPE BEHIND SEALANTS WHERE SEALANT BACKINGS ARE NOT USED BETWEEN SEALANTS AND BACK OF JOINTS. 3. INSTALL WEEPS AND VENTS INTO JOINTS AT THE SAME TIME SEALANTS ARE BEING INSTALLED. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR DIRECTED BY THE ARCHITECT, LOCATE WEEPS AND VENTS SPACED AS RECOMMENDED BY THE SEALANT MANUFACTURER AND THE WINDOW AND CURTAIN WALL FABRICATOR AND ERECTOR. DO NOT INSTALL WEEPS AND VENTS AT OUTSIDE BUILDING
- CORNERS. DO NOT INSTALL VENTS AT HORIZONTAL JOINTS IMMEDIATELY BELOW SHELF ANGLES, SILLS, AND THROUGH WALL FLASHINGS. INSTALLATION OF SEALANTS: INSTALL SEALANTS BY PROVEN TECHNIQUES THAT RESULT IN SEALANTS DIRECTLY CONTACTING AND FULLY WETTING JOINT SUBSTRATES, COMPLETELY FILLING RECESSES PROVIDED FOR EACH JOINT CONFIGURATION, AND PROVIDING UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY. INSTALL
- SEALANTS AT THE SAME TIME SEALANT BACKINGS ARE INSTALLED 1. APPLY SEALANTS IN THE DEPTH SHOWN OR, IF NONE IS SHOWN, APPLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING GENERAL PROPORTIONS AND LIMITATIONS:
- A. APPLY ELASTOMERIC SEALANTS IN SIDEWALK, PAVEMENT AND SIMILAR HORIZONTAL JOINTS TO A DEPTH EQUAL TO 75% OF THE JOINT WIDTH, BUT NOT LESS THAN 3/8 INCH (10 MM) AND NOT MORE THAN 3/4 INCH (19 MM).
- B. APPLY ELASTOMERIC SEALANTS, IN JOINTS NOT SUBJECT TO TRAFFIC OR OTHER ABRASION, TO A DEPTH EQUAL TO 50% OF THE JOINT WIDTH, BUT NOT LESS THAN 1/4 INCH (6 MM) AND NOT MORE THAN 1/2 INCH (13 MM).
- C. APPLY NON-ELASTOMERIC SEALANTS TO A DEPTH APPROXIMATELY EQUAL TO THE JOINT WIDTH.
- 2. POUR SELF LEVELING SEALANTS TO A DEPTH APPROXIMATELY EQUAL TO THE JOINT WIDTH. E. TOOLING OF NON SAG SEALANTS: IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS TO FORM SMOOTH, UNIFORM, BEADS TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT. DO NOT USE TOOLING AGENTS THAT DISCOLOR SEALANTS OR ADJACENT SURFACES. TOOL EXPOSED SURFACES OF SEALANTS TO THE PROFILE SHOWN, OR IF NONE IS SHOWN, TOOL SLIGHTLY CONCAVE.
- 1. USE MASKING TAPE TO PROTECT ADJACENT SURFACES OF RECESSED TOOLED JOINTS.

2. PROVIDE A SLIGHT WASH ON HORIZONTAL JOINTS WHERE HORIZONTAL AND VERTICAL SURFACES MEET.

3. AGAINST ROUGH SURFACES OR IN JOINTS OF UNEVEN WIDTHS AVOID THE APPEARANCE OF EXCESS SEALANT OR COMPOUND BY LOCATING THE COMPOUND OR SEALANT WELL BACK INTO JOINT WHEREVER POSSIBLE.

- 3.4 FIELD QUALITY CONTROL A. FIELD-ADHESION TESTING: FIELD-TEST EXTERIOR STRUCTURAL GLAZING SEALANT ADHESION TO GLASS AND ADJACENT SUBSTRATES AS
- 1. PERFORM 10 TESTS FOR THE FIRST 1000 FEET (300 M) OF JOINT LENGTH FOR EACH TYPE OF EXPOSED EXTERIOR WALL SEALANT AND 2. PERFORM ONE TEST FOR EACH 1000 FEET (300 M) OF JOINT LENGTH THEREAFTER OR ONE TEST PER EACH FLOOR PER ELEVATION.
- B. FIELD ADHESION TESTING OF SEALANTS SHALL TAKE PLACE WITH THE SEALANT MANUFACTURER'S REPRESENTATIVE PRESENT. 1. TEST METHOD: TEST JOINT SEALANTS BY HAND-PULL METHOD DESCRIBED BELOW:

A. MAKE KNIFE CUTS FROM ONE SIDE OF JOINT TO THE OTHER, FOLLOWED BY TWO CUTS APPROXIMATELY 3 INCHES (75 MM) LONG AT

- SIDES OF JOINT AND MEETING CROSS CUT AT ONE END. PLACE A MARK 1 INCH (25 MM) FROM CROSS-CUT END OF 3-INCH (75-MM) B. USE FINGERS TO GRASP 3-INCH (75-MM) PIECE OF SEALANT BETWEEN CROSS-CUT END AND 1-INCH (25-MM) MARK; PULL FIRMLY AT A 90-DEGREE ANGLE TO THE JOINT IN THE DIRECTION OF SIDE CUTS AND HOLD THE SEALANT IN THIS POSITION FOR 10 SECONDS; FULLUWING THE 10 SECOND TIME DURATION PULL SEALANT AT A 180 DEGREE ANGLE PARALLEL TO THE JOINT AND HOLD THE SEALANT
- IN THIS POSITION FOR 10 SECONDS. PULL SEALANT AWAY FROM JOINT TO THE DISTANCE RECOMMENDED BY SEALANT MANUFACTURER FOR TESTING ADHESION. C. FOR JOINTS WITH DISSIMILAR SUBSTRATES, CHECK ADHESION TO EACH SUBSTRATE SEPARATELY. DO THIS BY EXTENDING CUT ALONG ONE SIDE, CHECKING ADHESION TO OPPOSITE SIDE, AND THEN REPEATING THIS PROCEDURE FOR OPPOSITE SIDE.
- 2. RECORD TEST RESULTS, AND OBSERVATIONS OF JOINT AND SEALANT CONDITIONS, IN A FIELD ADHESION TEST LOG. 3. REPAIR JOINT SEALANTS PULLED FROM TEST AREA AS RECOMMENDED BY SEALANT MANUFACTURER.

C. SEALANTS NOT EVIDENCING ADHESIVE FAILURE FROM TESTING WILL BE CONSIDERED SATISFACTORY. REMOVE SEALANTS THAT FAIL TO

RESULTS PROVE SEALANTS COMPLY WITH INDICATED REQUIREMENTS.

ADHERE TO JOINT SUBSTRATES DURING TESTING OR TO COMPLY WITH OTHER REQUIREMENTS. RETEST FAILED APPLICATIONS UNTIL TEST

3.5 CLEANING

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

3.6 PROTECTION A. PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES AND FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO SEALANTS ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY SO INSTALLATIONS WITH REPAIRED AREAS ARE INDISTINGUISHABLE FROM THE ORIGINAL

END OF SECTION 07 92 00

<u>SECTION 08 11 00 - METAL DOORS AND FRAMES</u>

Part 1 - General

- A. THIS SECTION INCLUDES STEEL DOORS AND FRAMES. WHEN THE INTEGRATION OF A SECURITY SYSTEM INTO THE STEEL DOOR AND FRAME IS REQUIRED, THE CONTRACTOR SHALL BE
- RESPONSIBLE FOR THE TOTAL AND COMPLETE COORDINATION OF THE SECURITY SYSTEM COMPONENTS INTO THE WORK. B. RELATED SECTIONS INCLUDE THE FOLLOWING:
- DIVISION 8 SECTION "WOOD DOORS 08 14 16" FOR WOOD DOORS INSTALLED IN STEEL FRAMES.
- 2. DIVISION 8 SECTION "DOOR HARDWAREO8 71 00" FOR DOOR HARDWARE AND WEATHER STRIPPING.
- 3. DIVISION 8 SECTION "GLAZING 00 80 00" FOR GLASS IN DOORS AND FRAMES.
- 4. DIVISION 9 SECTION "PAINTING 09 91 23" FOR FIELD PAINTING FACTORY PRIMED DOORS AND FRAMES.
- PUBLICATIONS BY HOLLOW METAL MANUFACTURERS ASSOCIATION (HMMA) DIV. OF NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM), UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE CONTRACT DOCUMENTS:
- HMMA "HOLLOW METAL MANUAL" HMMA 861 "GUIDE SPECIFICATIONS FOR COMMERCIAL HOLLOW METAL DOORS AND FRAMES".

A. STEEL DOOR AND FRAME STANDARD: COMPLY WITH THE APPLICABLE PROVISIONS AND RECOMMENDATIONS OF THE FOLLOWING

PRODUCE REQUIRED UNITS. FIRE-RATED DOOR ASSEMBLIES: ASSEMBLIES COMPLYING WITH NFPA 80 THAT ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE-PROTECTION RATINGS INDICATED, BASED ON TESTING ACCORDING TO NFPA 252; AND 1997 UBC STANDARD 7-2 "FIRE TEST OF DOOR ASSEMBLIES" AND 1997 UBC STANDARD 7-4 "FIRE TEST OF WINDOW ASSEMBLIES", OR 2000 IBC AND UL 10C "STANDARD FOR POSITIVE PRESSURE FIRE TESTS OF DOOR ASSEMBLIES". FIRE CLASSIFICATION LABELS AT ALL DOORS WITH FIRE RATINGS GREATER THAN 20 MINUTES SHALL INDICATE THE TEMPERATURE RISE DEVELOPED ON THE UNEXPOSED SURFACE OF THE DOOR AFTER THE FIRST 30 MINUTES OF FIRE EXPOSURE.

MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING STEEL DOORS AND FRAMES SIMILAR TO THOSE INDICATED FOR

THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO

- SEE DRAWINGS FOR APPLICABLE CODE CONFORMANCE. TEMPERATURE-RISE RATING: WHERE INDICATED, PROVIDE DOORS THAT HAVE A TEMPERATURE-RISE RATING OF 450 DEG F (250 DEG C)
- MAXIMUM IN 30 MINUTES OF FIRE EXPOSURE. PROVIDE FIRE RATED DOOR ASSEMBLIES IN COMPLIANCE WITH 1997 UBC STANDARD 7-2, PART 1 FOR POSITIVE PRESSURE, OR UL 10C FOR POSITIVE PRESSURE. SIZES AND CONFIGURATIONS AS SHOWN ON THE DRAWINGS. INSTALLED DOOR ASSEMBLIES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS CERTIFIED ASSEMBLIES.
- A. TEST PRESSURE: AFTER 5 MINUTES INTO THE TEST, NEUTRAL PRESSURE LEVEL IN FURNACE SHALL BE ESTABLISHED AT 40 INCHES (1000 MM) OR LESS ABOVE THE SILL 4. PROVIDE FIRE RATED DOOR ASSEMBLIES WITH SMOKE AND DRAFT CONTROL RATING IN COMPLIANCE WITH 1997 UBC STANDARD 7-2 PART
- 2, OR UL 1784, AT CORRIDORS, STAIRWELLS, AND WHERE REQUIRED BY APPLICABLE CODES. SIZES AND CONFIGURATIONS AS SHOWN ON THE DRAWINGS. INSTALLED DOOR ASSEMBLIES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS CERTIFIED ASSEMBLIES. A. FIRE-RATED WINDOW ASSEMBLIES: ASSEMBLIES COMPLYING WITH NIPPA 80 THAT ARE LISTED AND LABELED BY A TESTING AND

1.3 DELIVERY, STORAGE, AND HANDLING

A. DELIVER DOORS AND FRAMES PALLETED, WRAPPED, OR CRATED TO PROVIDE PROTECTION DURING TRANSIT AND PROJECT SITE STORAGE. B. INSPECT DOORS AND FRAMES, ON DELIVERY, FOR DAMAGE. TOOL MARKS, RUST, BLEMISHES, AND ANY OTHER DAMAGE ON EXPOSED SURFACES WILL NOT BE ACCEPTABLE, REMOVE AND REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT. STORE DOORS AND FRAMES AT BUILDING SITE IN A DRY LOCATION, OFF THE GROUND, AND IN SUCH A MANNER AS TO PREVENT DETERIORATION.

INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE RATINGS INDICATED, BASED ON TESTING ACCORDING TO

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DOORS AND FRAMES BY ONE OF THE FOLLOWING:
- 1. STEEL DOORS AND FRAMES:

A. AMWELD BUILDING PRODUCTS, INC.

B. CECO DOOR PRODUCTS. C. CURRIES COMPANY.

D. DOOR COMPONENTS, INC.

- E. STEELCRAFT; A DIVISION OF INGERSOLL-RAND.
- A. HOT-ROLLED STEEL SHEETS: ASTM A 569/A 569M, CS (COMMERCIAL STEEL), TYPE B: FREE OF SCALE, PITTING, OR SURFACE DEFECTS; PICKLED AND OILED. NOT LESS THAN 16 GAGE THICK WHERE FRAMES ARE INDICATED TO BE BUILT INTO EXTERIOR WALLS, HOT DIP GALVANIZE AFTER FABRICATION IN COMPLIANCE WITH ASTM A153/A153M, CLASS B.
- B. COLD-ROLLED STEEL SHEETS: ASTM A 366/A 366M, CS (COMMERCIAL STEEL), AND ASTM A 568/A 568M, FREE FROM SCALE, PITTING, COIL BREAKS, OR OTHER DEFECTS, EXPOSED (MATTE) DULL FINISH. C. METALLIC-COATED STEEL SHEETS: ASTM A924/A924M AND ASTM A 653/A 653M, CS (COMMERCIAL STEEL), TYPE B; WITH G60 (Z180)
- ZINC (GALVANIZED) OR A60 (ZF180) ZINC-IRON-ALLOY (GALVANNEALED) COATING, MILL PHOSPHATIZED. INSERTS, BOLTS, AND FASTENERS: GALVANIZED OR CADMIUM PLATED STEEL EXPANSION BOLTS AND SHIELDS: FS FF-S-325, GROUP III, TYPE 1 OR 2.

EXPOSED JOINTS CONTINUOUSLY; GRIND, FILL, DRESS, AND MAKE SMOOTH, FLUSH, AND INVISIBLE.

FILLER: SOUND DEADENING AND HEAT RETARDING MINERAL FIBER INSULATING MATERIAL. F. GLASS AND GLAZING: REFER TO DIVISION 8 SECTION 'GLAZING'.

2.3 FABRICATION A. FABRICATE DOORS AND FRAMES RIGID, NEAT IN APPEARANCE, AND FREE OF DEFECTS, WARP, WAVE, AND BUCKLE. ACCURATELY FORM METAL TO SIZES AND PROFILES INDICATED. ACCURATELY MACHINE, FILE, AND FIT EXPOSED CONNECTIONS WITH HAIRLINE JOINTS. WELD

MACHINE SCREWS: FS FF-S-92, CARBON STEEL, TYPE III CROSS RECESSED, DESIGN I OR II RECESS, STYLE 2C FLAT HEAD.

B. EXPOSED FASTENERS: PROVIDE COUNTERSUNK FLAT HEADS FOR EXPOSED SCREWS AND BOLTS, UNLESS OTHERWISE INDICATED. HARDWARE PREPARATION: PREPARE DOORS AND FRAMES TO RECEIVE HARDWARE, INCLUDING CUTOUTS, REINFORCEMENT, MORTISING, DRILLING, AND TAPPING, ACCORDING TO FINAL HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY HARDWARE SUPPLIER, SECURE REINFORCEMENT BY SPOT WELDING. COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI A115 SERIES SPECIFICATIONS FOR DOOR AND FRAME PREPARATION FOR HARDWARE. FACTORY REINFORCED DOORS AND FRAMES TO RECEIVE SURFACE-APPLIED HARDWARE. FACTORY

DRILL AND TAP FOR SURFACE-APPLIED HARDWARE, EXCEPT AT PUSHPLATES AND KICKPLATES PROVIDE REINFORCING ONLY.

LOCATE HARDWARE AS INDICATED ON THE DRAWINGS OR IN DIVISION 8 SECTION 'DOOR HARDWARE' OR, IF NOT INDICATED, ACCORDING TO HIMMA 831, "RECOMMENDED HARDWARE LOCATIONS FOR CUSTOM HOLLOW METAL DOORS AND FRAMES."

- 1.3 METALLIC-COATED STEEL FINISHES A. GENERAL: CLEAN, TREAT AND PRIME SURFACES OF FABRICATED STEEL DOOR AND FRAMEWORK, INSIDE AND OUT. WHETHER EXPOSED OR
- CONCEALED IN THE CONSTRUCTION. B. SURFACE PREPARATION: CLEAN SURFACES WITH NONPETROLEUM SOLVENT SO SURFACES ARE FREE OF OIL AND OTHER CONTAMINANTS. AFTER CLEANING, APPLY A CONVERSION COATING SUITED TO THE ORGANIC COATING TO BE APPLIED OVER IT. CLEAN WELDS, MECHANICAL

CONNECTIONS, AND ABRADED AREAS, AND APPLY GALVANIZING REPAIR PAINT SPECIFIED BELOW TO COMPLY WITH ASTM A 780.

GALVANIZING REPAIR PAINT: HIGH-ZINC-DUST-CONTENT PAINT FOR REGALVANIZING WELDS IN STEEL, COMPLYING WITH SSPC-PAINT 20.

A250.10 ACCEPTANCE CRITERIA; RECOMMENDED BY PRIMER MANUFACTURER FOR ZINC-COATED STEEL; COMPATIBLE WITH SUBSTRATE AND

C. FACTORY PRIMING FOR FIELD-PAINTED FINISH: APPLY SHOP PRIMER IMMEDIATELY AFTER SURFACE PREPARATION AND PRETREATMENT. APPLY A SUFFICIENT NUMBER OF COATS, BAKED ON, TO OBTAIN UNIFORMLY SMOOTH EXPOSED SURFACES. TOUCH UP SURFACES HAVING RUNS, SMEARS, OR BARE SPOTS. SHOP PRIMER: MANUFACTURER'S OR FABRICATOR'S STANDARD, FAST-CURING, LEAD- AND CHROMATE-FREE, PRIMER COMPLYING WITH ANSI

FIELD-APPLIED FINISH PAINT SYSTEM INDICATED.

1.4 STEEL SHEET FINISHES A. GENERAL: CLEAN, TREAT AND PRIME SURFACES OF FABRICATED STEEL DOOR AND FRAMEWORK, INSIDE AND OUT, WHETHER EXPOSED OR CONCEALED IN THE CONSTRUCTION.

B. SURFACE PREPARATION: CLEAN SURFACES TO COMPLY WITH SSPC-SP 1, "SOLVENT CLEANING"; REMOVE DIRT, OIL, GREASE, OR OTHER

SSPC-SP 3. "POWER TOOL CLEANING." C. FACTORY PRIMING FOR FIELD-PAINTED FINISH: APPLY SHOP PRIMER IMMEDIATELY AFTER SURFACE PREPARATION AND PRETREATMENT. APPLY A SUFFICIENT NUMBER OF COATS, BAKED ON, TO OBTAIN UNIFORMLY SMOOTH EXPOSED SURFACES. TOUCH UP SURFACES HAVING RUNS, SMEARS, OR BARE SPOTS.

CONTAMINANTS THAT COULD IMPAIR PAINT BOND. REMOVE MILL SCALE, SHAVINGS, FILINGS, AND RUST, IF PRESENT, COMPLYING WITH

1. SHOP PRIMER: MANUFACTURER'S OR FABRICATOR'S STANDARD, FAST-CURING, CORROSION-INHIBITING, LEAD- AND CHROMATE-FREE, UNIVERSAL PRIMER COMPLYING WITH ANSI A250.10 ACCEPTANCE CRITERIA; COMPATIBLE WITH SUBSTRATE AND FIELD-APPLIED FINISH PAINT SYSTEM

PART 3 - EXECUTION

1.1 INSTALLATION A. GENERAL: INSTALL DOORS AND FRAMES ACCORDING TO DHI A115.IG, THE ARCHITECT REVIEWED SHOP DRAWINGS, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

B. FRAMES: INSTALL FRAMES WHERE INDICATED. EXTEND FRAME ANCHORAGES BELOW FILLS AND FINISHES. COORDINATE THE INSTALLATION

- OF BUILT-IN ANCHORS FOR WALL AND PARTITION CONSTRUCTION AS REQUIRED WITH OTHER WORK. KNOCK-DOWN FRAMES: INSTALL KNOCK-DOWN FRAMES IN LOCATIONS SHOWN, IN PERFECT ALIGNMENT AND ELEVATION, PLUMB, LEVEL, STRAIGHT AND TRUE, AND FREE FROM RACK. WELDED FRAMES:
- A. SET MASONRY ANCHORAGE DEVICES WHERE REQUIRED FOR SECURING FRAMES TO IN-PLACE CONCRETE OR MASONRY CONSTRUCTION.
- SPECIFICATIONS

KDA

SP-06

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