

SECTION 071000 - ROOF ACCESSORIES

PART 1 - GENERAL

- 1. SUMMARY
A. THIS SECTION INCLUDES THE FOLLOWING:
1. ROOF HATCHES.
12. SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF ROOF ACCESSORY INDICATED.
B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION DETAILS FOR ROOF ACCESSORIES.
C. SAMPLES: FOR EACH TYPE OF EXPOSED FACTORY-APPLIED COLOR FINISH REQUIRED AND FOR EACH TYPE OF ROOF ACCESSORY INDICATED, PREPARED ON SAMPLES OF SIZE TO ADEQUATELY SHOW COLOR.
13. QUALITY ASSURANCE
A. SHEET METAL STANDARD: COMPLY WITH SPMQMA'S 'ARCHITECTURAL SHEET METAL MANUAL' DETAILS FOR FABRICATION OF UNITS, INCLUDING FLANGES AND CAP FLASHING TO COORDINATE WITH TYPE OF ROOFING INDICATED.

PART 2 - PRODUCTS

21. MANUFACTURERS

- A. IN OTHER PART 2 ARTICLES WHERE SUBPARAGRAPH TITLES BELOW INTRODUCE LISTS, THE FOLLOWING REQUIREMENTS APPLY FOR PRODUCT SELECTION.
B. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED.
C. MANUFACTURERS - GENERAL
1. SILICONE SEALANT: TREKCO.
2. POLYURETHANE SEALANT: TREKCO.
3. BUTYL RUBBER SEALANT: TREKCO.
4. AND AS SPECIFIED HEREIN.

22. 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 DEMONSTRATED BY SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.
B. COLORS OF EXPOSED JOINT SEALANTS: AS INDICATED ON DRAWINGS. IF NOT INDICATED, AS SELECTED BY OWNER'S REPRESENTATIVE FROM MANUFACTURERS FULL RANGE OF COLORS.

23. ELASTOMERIC JOINT SEALANTS

- A. ELASTOMERIC SEALANTS, GENERAL: ASTM C 920.
1. CONTINUOUS-IMPRESSION SEALANTS: FOR IMPRESSION IN WATER, PRODUCTS TESTED ACCORDING TO ASTM C 941, INCLUDING INITIAL SIX-WEEK IMPRESSION PERIOD AND TWO ADDITIONAL IMPRESSION FOUR WEEK IMPRESSION PERIODS, WITHOUT FAILING IN ADHESION OR COHESION WHEN TESTED WITH SUBSTRATES INDICATED.
2. SEALANTS FOR CONTACT WITH FOOD: COMPLY WITH 21 CFR 172.620.
B. LOW-MODULUS NONACID-CURING SILICONE SEALANT: DOW CORNING CORP., 750 SILICONE BUILDING SEALANT.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND NS (NONSAG).
2. CLASS: 25.
3. ADDITIONAL MOVEMENT CAPABILITY: CAPABLE OF 100 PERCENT MOVEMENT IN EXTENSION AND 50 PERCENT MOVEMENT IN COMPRESSION WHEN TESTED FOR ADHESION AND COHESION UNDER MAXIMUM CYCLIC MOVEMENT PER ASTM C 719.
4. EXPOSURE: USE NT (NONTRAFFIC).
5. M, G, A, AND, AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
6. NONSTAINING TO POROUS SUBSTRATES WHEN TESTING PER ASTM C 1248 FOR SUBSTRATES INDICATED.
C. MEDIUM-MODULUS NEUTRAL-CURING SILICONE SEALANT: DOW CORNING CORP., 750 SILICONE BUILDING SEALANT.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND NS (NONSAG).
2. CLASS: 25.
3. EXPOSURE: USE NT (NONTRAFFIC).
4. SUBSTRATES: USES M, G, A.
5. NONSTAINING TO POROUS SUBSTRATES WHEN TESTING PER ASTM C 1248 FOR SUBSTRATES INDICATED.
D. MILDLY-RESISTANT SILICONE SEALANT: DOW CORNING CORP., 750 MILDELY-RESISTANT SILICONE SEALANT.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND P (POURABLE).
2. CLASS: 25.
3. EXPOSURE: USE NT (NONTRAFFIC).
4. SUBSTRATES: USES G, A, AND, AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
E. POURABLE SILICONE SEALANT: DOW CORNING CORP., 850-SL SELF-LEVELING SILICONE JOINT SEALANT.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND P (POURABLE).
2. CLASS: 25.
3. ADDITIONAL MOVEMENT CAPABILITY: 100 PERCENT MOVEMENT IN EXTENSION AND 50 PERCENT IN COMPRESSION WHEN TESTED FOR ADHESION AND COHESION UNDER MAXIMUM CYCLE MOVEMENT PER ASTM C 719.
4. EXPOSURE: USE T (TRAFFIC).
5. SUBSTRATES: M, G, A, AND, AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
F. MULTICOMPONENT NONSAG URETHANE SEALANT: SONNEBORN BUILDING PRODUCTS DIVISION, CHEMREX, INC., SONCLASTIC NF 1.
1. TYPE AND GRADE: M (MULTICOMPONENT) AND NS (NONSAG).
2. CLASS: 25.
3. ADDITIONAL MOVEMENT CAPABILITY: 50 PERCENT MOVEMENT IN EXTENSION AND 50 PERCENT IN COMPRESSION WHEN TESTED FOR ADHESION AND COHESION UNDER MAXIMUM CYCLIC MOVEMENT PER ASTM C 719.
4. EXPOSURE: USE NT (NONTRAFFIC) AND T (TRAFFIC).
5. SUBSTRATES: M, G, A, AND, AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
G. MULTICOMPONENT POURABLE URETHANE SEALANT: SONNEBORN BUILDING PRODUCTS DIVISION, CHEMREX, INC., SONCLASTIC BL 2.
1. TYPE AND GRADE: M (MULTICOMPONENT) AND P (POURABLE).
2. CLASS: 25.
3. EXPOSURE: T (TRAFFIC).
4. SUBSTRATE: USE M.
H. SINGLE-COMPONENT NONSAG URETHANE SEALANT: SONNEBORN BUILDING PRODUCTS DIVISION, CHEMREX, INC., SONCLASTIC NF 1.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND NS (NONSAG).
2. CLASS: 25.
3. EXPOSURE: NT (NONTRAFFIC).
4. SUBSTRATES: M, G, A, AND, AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
I. SINGLE-COMPONENT POURABLE URETHANE SEALANT: SONNEBORN BUILDING PRODUCTS DIVISION, CHEMREX, INC., SONCLASTIC BL 2.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND P (POURABLE).
2. CLASS: 25.
3. EXPOSURE: T (TRAFFIC).
4. SUBSTRATE: M.

24. SOLVENT-RELEASE JOINT SEALANTS

- A. BUTYL-RUBBER-BASED SOLVENT-RELEASE JOINT SEALANT: ASTM D 1069, PECORA CORPORATION, EC-50 BUTYL RUBBER SEALANT.
1. TYPE AND GRADE: S (SINGLE COMPONENT) AND NS (NONSAG).
2. CLASS: 25.
3. EXPOSURE: NT (NONTRAFFIC).

25. JOINT-SEALANT BACKING

- A. GENERAL: PROVIDE SEALANT BACKING MATERIALS WITH TYPE THAT ARE NONSTAINING AND REMOVABLE WITH JOINT SUBSTRATES, SEPARATORS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED FOR COMPLETING ROOF ACCESSORY INSTALLATION.
B. SEALANT BACKING: PROVIDE SEALANT BACKING MATERIALS WITH LOW COMPRESSION SET AND OF SIZE AND SHAPE TO FORM A SECONDARY SEAL TO CONTROL SEALANT DEPTH, AND TO OTHERWISE CONTRIBUTE TO JOINT SEALANT PERFORMANCE.
C. ELASTOMERIC SEALANT BACKINGS: NEOPRENE, BUTYL, EPDM, OR SILICONE TUBING COMPLYING WITH ASTM D 1971, NONABSORBENT TO WATER AND GAS, AND CAPABLE OF REMAINING RESILIENT AT TEMPERATURES FROM -50 TO PLUS 26 DEGS F. PROVIDE PRODUCTS WITH LOW COMPRESSION SET AND OF SIZE AND SHAPE TO FORM A SECONDARY SEAL TO CONTROL SEALANT DEPTH, AND TO OTHERWISE CONTRIBUTE TO JOINT SEALANT PERFORMANCE.
D. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO REGIO, INLEAKABLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT WHERE SUCH ADHESION WOULD RESULT IN SEALANT FAILURE. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

26. MISCELLANEOUS MATERIALS

- A. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS 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 HARRING JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS TO JOINT SUBSTRATES.
C. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

PART 3 - EXECUTION

31. PREPARATION

- A. SURFACE CLEANING OF JOINTS: CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS.
1. REMOVE ALL FOREIGN MATERIAL FROM JOINT SUBSTRATES THAT COULD INTERFERE WITH ADHESION OF JOINT SEALANT.
2. CLEAN 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 AFTER CLEANING OPERATIONS ABOVE BY VACUUMING OR BLOWING OUT JOINTS WITH OIL-FREE COMPRESSED AIR.
3. REMOVE LAITANCE AND FORM-RELEASE AGENTS FROM CONCRETE.
4. CLEAN NONPOROUS SURFACES WITH CHEMICAL CLEANERS OR OTHER MEANS THAT DO NOT STAIN, HARM SUBSTRATES, OR LEAVE RESIDUES CAPABLE OF INTERFERING WITH ADHESION OF JOINT SEALANTS.
B. JOINT PRIMING: PRIME JOINT SUBSTRATES, WHEN RECOMMENDED IN WRITING BY JOINT-SEALANT MANUFACTURER BASED ON PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS OR PRIOR 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 ON ADJOINING SURFACES.
C. MASKING TAPE: USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT WITH ADJOINING SURFACES THAT OTHERWISE WOULD BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTACT OR BY CLEANING METHODS REQUIRED TO REMOVE SEALANT SHEARS. REMOVE TAPE IMMEDIATELY AFTER TOOLING WITHOUT DISTURBING JOINT SEAL.
D. SEALANT INSTALLATION: COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.
E. ACOUSTICAL SEALANT APPLICATION STANDARD: COMPLY WITH RECOMMENDATIONS IN ASTM C 916 FOR USE OF JOINT SEALANTS IN ACOUSTICAL APPLICATIONS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.
F. 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 MOVEMENT CAPABILITY.
1. DO NOT LEAVE GAPS BETWEEN ENDS OF SEALANT BACKINGS.
2. DO NOT STRETCH, TUNE, PUNCTURE, OR TEAR SEALANT BACKINGS.
3. REMOVE ABSORBENT SEALANT BACKINGS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.
G. INSTALL BOND-BREAKER TAPE BEHIND SEALANTS WHERE SEALANT BACKINGS ARE NOT USED BETWEEN SEALANTS AND BACKS OF JOINTS.
1. PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY JET JOINT SUBSTRATES.
2. COMPLETELY FILL RECESSES IN EACH JOINT CONFIGURATION.
3. PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.
H. TOOLING OF NONSAG SEALANTS: IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS ACCORDING TO REQUIREMENTS SPECIFIED BELOW TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED: TO ELIMINATE AIR POCKETS AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT.
1. REMOVE EXCESS SEALANT FROM SURFACES ADJACENT TO JOINTS.
2. USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY SEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.
3. JOINT CONFIGURATION: CONCAVE JOINT CONFIGURATION PER FIGURE 5A IN ASTM C 1193, UNLESS OTHERWISE INDICATED.
I. INSTALLATION OF PREFORMED SILICONE-SEALANT SYSTEM
1. APPLY MASKING TAPE TO EACH SIDE OF JOINT, OUTSIDE OF AREA TO BE COVERED BY SEALANT SYSTEM.
2. COMPLETE INSTALLATION OF HORIZONTAL JOINTS BEFORE INSTALLING VERTICAL JOINTS. LAP VERTICAL JOINTS OVER HORIZONTAL JOINTS. AT END OF JOINTS, CUT SILICONE EXTRUSION WITH A RAZOR KNIFE.
J. CLEAN EXCESS SEALANT OR SEALANT SHEARS 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.

32. JOINT-SEALANT SCHEDULE

- A. EXTERIOR JOINTS:
1. GENERAL URETHANE, MULTI COMPONENT, NONSAG.
2. WOOD/WOOD, WOOD/BROCKUR/URETHANE, MULTI COMPONENT, NONSAG.
3. METAL/METAL, METAL/WOOD, URETHANE, MULTI COMPONENT, NONSAG.
4. BROCKUR/BROCKUR, URETHANE, MULTI COMPONENT, NONSAG.
5. UNDER METAL DOOR THRESHOLDS: BUTYL RUBBER, SINGLE COMPONENT, NONSAG.
6. HORIZONTAL WEARING SURFACES: DIVISION 2 SECTION 'WEARING JOINT SEALANTS'.
7. GLAZING: SILICONE, SINGLE COMPONENT, NONSAG.
B. INTERIOR JOINTS:
1. GENERAL URETHANE, SINGLE COMPONENT, NONSAG.
2. CONCRETE/CONCRETE, SINGLE COMPONENT, NONSAG.
3. CERAMIC TILE/STONE, SINGLE COMPONENT, NONSAG.
4. HORIZONTAL WEARING SURFACES: URETHANE, SINGLE COMPONENT, POURABLE OR RESISTANT TO MILDEW RESISTANT.
5. METAL/DOOR THRESHOLDS: BUTYL RUBBER, SINGLE COMPONENT, NONSAG.

SECTION 0810 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

11. SUMMARY

- SECTION INCLUDES:
1. STANDARD HOLLOW METAL DOORS AND FRAMES.
12. SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
B. SCHEDULE: PREPARED BY OR UNDER THE SUPERVISION OF SUPPLIER, USING SAME REFERENCE NUMBERS FOR DETAILS AND OPENINGS AS THOSE ON DRAWINGS.

PART 2 - PRODUCTS

21. MANUFACTURERS

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. AMFIELD BUILDING PRODUCTS, LLC.
2. CECO DOOR PRODUCTS AN ASSA ABLOY GROUP COMPANY.
3. CURRIES COMPANY AN ASSA ABLOY GROUP COMPANY.
4. STEELCRAFT AN INgersoll-RAND COMPANY.

22. MATERIALS

- A. COLD-ROLLED STEEL SHEET: ASTM A 1008/A 1009, CS, TYPE B4 SUITABLE FOR EXPOSED APPLICATIONS.
B. METALLIC-COATED STEEL SHEET: ASTM A 653/A 653M, COMMERCIAL STEEL (CS), TYPE B4 WITH MINIMUM 140Z (750) METALLIC COATING.
C. FRAME ANCHORS: ASTM A 581A 581M, COMMERCIAL STEEL (CS), 407 (2G) COATING DESIGNATION HILL PHOSPHATIZED.
1. FOR ANCHORS BUILT INTO EXTERIOR WALLS, STEEL SHEET COMPLYING WITH ASTM A 1008/A 1009M OR ASTM A 581A 581M, HOT-DIP GALVANIZED ACCORDING TO ASTM A 581A 581M, CLASS B.
2. INSETS, BOLTS, AND FASTENERS: HOT-DIP GALVANIZED ACCORDING TO ASTM A 581A 581M.
D. GROUT: ASTM C 474, EXCEPT WITH A MAXIMUM SLUMP OF 4 INCHES (102 MM), AS MEASURED ACCORDING TO ASTM C 143C 143M.
E. MINERAL-FIBER INSULATION: ASTM C 665, TYPE I.
F. GLAZING: DIVISION 09 SECTION 'GLAZING'.

23. STANDARD HOLLOW METAL DOORS

- A. GENERAL: COMPLY WITH ANSI/SI A250.8.
1. DESIGN: FLUSH PANEL.
2. CORE CONSTRUCTION: MANUFACTURER'S STANDARD POLYSTYRENE OR POLYURETHANE.
a. THERMALLY-BREAKED (INSULATED) DOORS: R-VALUE OF NOT LESS THAN 19 WHEN TESTED ACCORDING TO ASTM C 1863.
3. VERTICAL EDGES FOR SINGLE-ACTING DOORS: SQUARE EDGE.
4. TOP AND BOTTOM EDGES: CLOSED WITH FLUSH OR INVERTED 0.242-INCH (10-MM) THICK, END CLOSURES OR CHANNELS OF SAME MATERIAL AS FACE SHEETS.
5. TOLERANCES: 50 FT MANUFACTURING TOLERANCES FOR STANDARD STEEL DOORS AND FRAMES.
B. EXTERIOR DOORS: FACE SHEETS FABRICATED FROM METALLIC-COATED STEEL SHEET, COMPLY WITH ANSI/SI A250.8 FOR LEVEL AND MODEL AND ANSI/SI A250.6 FOR PHYSICAL PERFORMANCE LEVEL.
1. LEVEL 1 AND PHYSICAL PERFORMANCE LEVEL C (STANDARD DUTY).

- A. WIDTH: 1.34 INCHES (445 MM) OR AS INDICATED ON DRAWINGS.
2. LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL A (EXTRA HEAVY DUTY) MODEL 1 (FULL FLUSH).
C. HARDWARE REINFORCEMENT: ANSI/SI A250.6.

24. STANDARD HOLLOW METAL FRAMES

- A. GENERAL: COMPLY WITH ANSI/SI A250.8.
B. EXTERIOR FRAMES: FABRICATED FROM METALLIC-COATED STEEL SHEET.
1. FABRICATE FRAMES WITH MITERED OR COPED CORNERS.
2. FABRICATE FRAMES AS KNOCKED DOWN UNLESS OTHERWISE INDICATED.
3. FABRICATE FRAMES WITH MITERED OR COPED CORNERS.
4. FRAMES FOR WOOD DOORS: 0.261-INCH (13-MM) THICK STEEL SHEET.
C. HARDWARE REINFORCEMENT: ANSI/SI A250.8.

25. FRAME ANCHORS

- A. JAMB ANCHORS:
1. MASONRY TYPE: ADJUSTABLE STRAP-AND-STIRUP OR T-SHAPED ANCHORS TO SUIT FRAME SIZE, NOT LESS THAN 0.242 INCH (10 MM) THICK WITH CORRUGATED OR PERFORATED STRAPS NOT LESS THAN 7 INCHES (254 MM) WIDE BY 10 INCHES (254 MM) LONG OR URE ANCHORS NOT LESS THAN 0.242 INCH (45 MM) THICK.
2. STUD-WALL TYPE: DESIGNED TO ENGAGE STUD, WELDED TO BACK OF FRAMES NOT LESS THAN 0.242 INCH (10 MM) THICK.
3. COMPRESSION TYPE: FOR DRYWALL SLIP-ON FRAMES, ADJUSTABLE COMPRESSION ANCHORS.
B. FLOOR ANCHORS: FORCED FROM SAME MATERIAL AS FRAMES, NOT LESS THAN 0.242 INCH (10 MM) THICK AND AS FOLLOWS:
1. MONOLITHIC CONCRETE SLABS: CLIP-TYPE ANCHORS, WITH TWO HOLES TO RECEIVE FASTENERS.

26. FABRICATION

- A. TOLERANCES: FABRICATE HOLLOW METAL WORK TO TOLERANCES INDICATED IN 501.01.
B. HOLLOW METAL DOORS:
1. EXTERIOR DOORS: PROVIDE WEEP-HOLE OPENINGS IN BOTTOM OF EXTERIOR DOORS. SEAL JOINTS IN TOP EDGES OF DOORS AGAINST WATER PENETRATION.
C. HOLLOW METAL FRAMES: WHERE FRAMES ARE FABRICATED IN SECTIONS, PROVIDE JOINT PLATES OR ANGLES AT EACH JOINT, FABRICATED OF SAME THICKNESS METAL AS FRAMES.
1. WELDED FRAMES: WELD FLUSH FACE JOINTS CONTINUOUSLY. GRIND, FILE, DRESS, AND MAKE SMOOTH, FLUSH, AND INVISIBLE.
2. PROVIDE COUNTERSINK FLAT- OR OVAL-HEAD EXPOSED SCREWS AND BOLTS FOR EXPOSED FASTENERS UNLESS OTHERWISE INDICATED.
3. GROUT GUARDS: WELD GUARDS TO FRAME ANCHORS WHERE REQUIRED IN FRAMES. GROUTED.
4. FLOOR ANCHORS: WELD ANCHORS TO BOTTOM OF JAMBS AND MILLION. PROVIDE AT LEAST FOUR BOLTS PER ANCHOR.
5. JAMB ANCHORS: PROVIDE NUMBER AND SPACING OF ANCHORS AS FOLLOWS:
a. MASONRY TYPE: LOCATE ANCHORS NOT MORE THAN 18 INCHES (457 MM) FROM TOP AND BOTTOM OF FRAME. SPACE ANCHORS NOT MORE THAN 32 INCHES (813 MM) O.C. AND AS FOLLOWS:
b. STUD-WALL TYPE: LOCATE ANCHORS NOT MORE THAN 18 INCHES (457 MM) FROM TOP AND BOTTOM OF FRAME. SPACE ANCHORS NOT MORE THAN 32 INCHES (813 MM) O.C. AND AS FOLLOWS:
c. COMPRESSION TYPE: NOT LESS THAN TWO ANCHORS.
d. POSTINSTALLED EXPANSION TYPE: LOCATE ANCHORS NOT MORE THAN 6 INCHES (152 MM) FROM TOP AND BOTTOM OF FRAME. SPACE ANCHORS NOT MORE THAN 26 INCHES (660 MM) O.C.
6. DOOR SILENCERS: EXPOSED LEATHER-STRIPPED DOORS, DRILL STOPS TO RECEIVE DOOR SILENCERS.
a. SINGLE-DOOR TYPES: THREE DOOR SILENCERS.
b. HARDWARE PREPARATION: FACTORY PREPARE HOLLOW METAL WORK TO RECEIVE TEMPLATED MORTISED HARDWARE ACCORDING TO THE DOOR HARDWARE SCHEDULE AND TEMPLATES FURNISHED AS SPECIFIED IN DIVISION 09 SECTION 'DOOR HARDWARE'.
LOCATE HARDWARE AS INDICATED, OR IF NOT INDICATED, ACCORDING TO ANSI/SI A250.8. REINFORCE DOORS AND FRAMES TO RECEIVE NOTIFIED, MORTISED AND SURFACE-MOUNTED DOOR HARDWARE.
3. COMPLY WITH APPLICABLE REQUIREMENTS IN ANSI/SI A250.6 AND ANSI/SI A15 SERIES SPECIFICATIONS FOR PREPARATION OF HOLLOW METAL WORK FOR HARDWARE.
4. COORDINATE LOCATIONS OF CONDUIT AND WIRING BOXES FOR ELECTRICAL CONNECTIONS WITH DIVISION 26 ELECTRICAL SECTIONS.

27. STEEL FINISHES

- A. PRIME FINISH: APPLY MANUFACTURER'S STANDARD PRIMER IMMEDIATELY AFTER CLEANING AND PRETREATING.
1. SHOP PRIMER: ANSI/SI A250.8.

PART 3 - EXECUTION

31. INSTALLATION

- A. HOLLOW METAL FRAMES: COMPLY WITH ANSI/SI A250.8.
1. SET FRAMES ACCURATELY IN POSITION. PLUMB, ALIGN, AND BRACE SECURELY UNTIL PERMANENT ANCHORS ARE SET. AFTER WALL CONSTRUCTION IS COMPLETE, REMOVE TEMPORARY BRACES, LEAVING SURFACES SMOOTH AND UNDAMAGED.
a. INSTALL DOOR SILENCERS IN FRAMES BEFORE GROUTING.
b. REMOVE TEMPORARY BRACES NECESSARY FOR INSTALLATION ONLY AFTER FRAMES HAVE BEEN PROPERLY SET AND SECURED.
c. CHECK PLUMBNESS, SQUARENESS, AND TILT OF FRAMES AS WALLS ARE CONSTRUCTED. SHIM AS NECESSARY TO COMPLY WITH INSTALLATION TOLERANCES.
2. FLOOR ANCHORS: PROVIDE FLOOR ANCHORS FOR EACH JAMB AND MILLION THAT EXTENDS TO FLOOR, AND SECURE WITH POSTINSTALLED EXPANSION ANCHORS.
a. FLOOR ANCHORS MAY BE SET WITH POWDER-ACTUATED FASTENERS INSTEAD OF POSTINSTALLED EXPANSION ANCHORS IF SO INDICATED AND APPROVED ON SHOP DRAWINGS.
3. METAL-STUD PARTITIONS: SOLIDLY PACK MINERAL-FIBER INSULATION BEHIND FRAMES.
4. MASONRY WALLS: COORDINATE INSTALLATION OF FRAMES TO ALLOW FOR SOLIDLY FILLING SPACE BETWEEN FRAMES AND MASONRY WITH GROUT.
5. IN-PLACE CONCRETE OR MASONRY CONSTRUCTION: SECURE FRAMES IN PLACE WITH POSTINSTALLED EXPANSION ANCHORS, COUNTERSINK ANCHORS, AND FILL AND MAKE SMOOTH, FLUSH, AND INVISIBLE ON EXPOSED FACES.
6. IN-PLACE GYPSUM BOARD PARTITIONS: SECURE FRAMES IN PLACE WITH POSTINSTALLED EXPANSION ANCHORS THROUGH FLOOR ANCHORS AT EACH JAMB, COUNTERSINK ANCHORS, AND FILL AND MAKE SMOOTH, FLUSH, AND INVISIBLE ON EXPOSED FACES.
7. INSTALLATION TOLERANCES: ADJUST HOLLOW METAL DOOR FRAMES FOR SQUARENESS, ALIGNMENT, TILT, AND PLUMB TO THE FOLLOWING TOLERANCES:
a. SQUARENESS: PLUS OR MINUS 1/16 INCH (1.6 MM) MEASURED AT DOOR RABBET ON A LINE 90 DEGREES FROM JAMB PERPENDICULAR TO FRAME HEAD.
b. ALIGNMENT: PLUS OR MINUS 1/16 INCH (1.6 MM) MEASURED AT JAMBS ON A HORIZONTAL LINE PARALLEL TO PLANE OF WALL.
c. TILT: PLUS OR MINUS 1/16 INCH (1.6 MM) MEASURED AT OPPOSITE FACE CORNERS OF JAMBS ON PARALLEL LINES AND PERPENDICULAR TO PLANE OF WALL.
d. PLUMBNESS: PLUS OR MINUS 1/16 INCH (1.6 MM) MEASURED AT JAMBS AT FLOOR.
B. HOLLOW METAL DOORS: FIT HOLLOW METAL DOORS ACCURATELY IN FRAMES, WITH CLEARANCES SPECIFIED BELOW, SHIM AS NECESSARY.
1. NON-FRAME-RATED STANDARD STEEL DOORS:
a. JAMBS AND LEAD: 1/8 INCH (3 MM) PLUS OR MINUS 1/16 INCH (1.6 MM).
b. BETWEEN EDGES OF PAIRS OF DOORS: 1/8 INCH (3 MM) PLUS OR MINUS 1/16 INCH (1.6 MM).
c. BETWEEN BOTTOM OF DOOR AND TOP OF THRESHOLD: MAXIMUM 3/8 INCH (9.5 MM).
d. BETWEEN BOTTOM OF DOOR AND TOP OF FINISH FLOOR (NO THRESHOLD): MAXIMUM 3/4 INCH (19 MM).

32. ADJUSTING AND CLEANING

- A. FINAL ADJUSTMENTS: CHECK AND READJUST OPERATING HARDWARE ITEMS IMMEDIATELY BEFORE FINAL INSPECTION. LEAVE WORK IN COMPLETE AND PROPER OPERATING CONDITION. REMOVE AND REPLACE DEFECTIVE WORK, INCLUDING HOLLOW METAL WORK THAT IS WARPED, BOWED, OR OTHERWISE UNACCEPTABLE.
B. PRIME-COAT TOUCHUP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH RUBBED OR OTHERWISE UNACCEPTABLE PRIME COAT AND APPLY TOUCHUP OF COMPATIBLE AIR-DRYING, RUBB-NISITIVE PRIMER.
METALLIC-COATED SURFACES: CLEAN ABRASIVE AREAS AND REPAIR WITH GALVANIZING REP.

SECTION 0840 - FLUSH WOOD DOORS

PART 1 - GENERAL

11. SUMMARY

- SECTION INCLUDES:
A. SOLID-CORE DOORS WITH MEDIUM-DENSITY-OVERLAY AND THERMALLY-BREAKED FACES.
B. RELATED SECTIONS:
1. DIVISION 09 SECTION 'GLAZING' FOR GLASS VIEW PANELS IN FLUSH WOOD DOORS.
12. SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF DOOR INDICATED.
B. SHOP DRAWINGS: INDICATE LOCATION, SIZE, AND HAND OF EACH DOOR. ELEVATION OF EACH KIND OF DOOR CONSTRUCTION DETAILS NOT COVERED IN PRODUCT DATA LOCATION AND EXTENT OF HARDWARE, BLOCKING, AND OTHER PERTINENT DATA.
C. INDICATE DIMENSIONS AND LOCATIONS OF HOLES AND HOLES FOR HARDWARE.
D. SAMPLES OF FINISH MATERIALS AND DOOR FACES.
13. QUALITY ASSURANCE
A. MANUFACTURER QUALIFICATION: A QUALIFIED MANUFACTURER THAT IS CERTIFIED FOR CHAIN OF CUSTODY BY AN ACCREDITED CERTIFICATION BODY.
B. QUALITY CONTROL: IN ADDITION TO REQUIREMENTS SPECIFIED, COMPLY WITH AIA'S 'ARCHITECTURAL WOODWORK QUALITY STANDARDS' ILLUSTRATED.

REVISIONS BY
Case No. 18-000002
New Building for
ARBY'S
Store #8149
1058 Dunlawton Ave.
Port Orange, Florida
Date: 08.14.18
Project Mgr: DM
Drawn: DC
Job: 18-082
Sheet
N5
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