

METALS

SECTION 055000 - METAL FABRICATIONS
1.1 SUMMARY
A. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT.
B. STEEL FRAMING AND SUPPORTS FOR APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
C. SHELF ANGLES.
D. METAL BOLLARDS.
1.2 SUBMITTALS
A. PRODUCT DATA: FOR THE FOLLOWING:
 1. PAINT PRODUCTS.
 2. GROUT.
 3. ALL PREFABRICATED PRODUCTS.
B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION DETAILS FOR METAL FABRICATIONS.
 1. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.
 2. PROVIDE TEMPLATES FOR ANCHORS AND BOLTS SPECIFIED FOR INSTALLATION UNDER OTHER SECTIONS.
C. WELDING CERTIFICATES.
1.3 PRODUCTS
A. MATERIALS: STEEL PLATES, SHAPES, AND BARS, STEEL PIPE, SLOTTED CHANNEL FRAMING.
 1. LOW-EMITTING PRIMER: METAL PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. MISCELLANEOUS FRAMING AND SUPPORTS:
 1. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
 2. GALVANIZE WHERE INDICATED.
 3. PRIME WITH ZINC-RICH PRIMER WHERE INDICATED.
 a. ZINC-RICH PRIMER SHALL HAVE A VOC CONTENT OF 34C G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
C. LOOSE STEEL LINTELS, GALVANIZED AT EXTERIOR WALLS.
D. SHELF ANGLES, GALVANIZED.
E. STEEL WELD PLATES AND ANGLES NOT SPECIFIED IN OTHER SECTIONS, FOR CASTING INTO CONCRETE.
F. METAL BOLLARDS: SCHEDULE 40 STEEL PIPE.
END OF SECTION 055000

WOOD AND PLASTICS

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY
1.1 MATERIALS
A. WOOD PRODUCTS, GENERAL:
 1. MAXIMUM MOISTURE CONTENT OF LUMBER: **15 PERCENT.**
B. WOOD-PRESERVATIVE-TREATED MATERIALS:
 1. PRESERVATIVE TREATMENT: AWPAC U1; USE CATEGORY UC2.
 a. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
 2. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
 a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
 b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
 c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
 d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
C. FIRE-RETARDANT-TREATED MATERIALS:
 1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
 2. INTERIOR TYPE A UNLESS OTHERWISE INDICATED.
 3. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
 a. FRAMING FOR RAISED PLATFORMS.
 b. CONCEALED BLOCKING.
 c. ROOF FRAMING AND BLOCKING.
 d. ITEMS IN CONTACT WITH ROOFING.
 e. PLYWOOD BACKING PANELS.
D. FRAMING:
 1. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE.
E. MISCELLANEOUS LUMBER:
 1. DIMENSION LUMBER: CONSTRUCTION OR NO. 2 GRADE.
 2. UTILITY SHELVING: 19 PERCENT MAXIMUM MOISTURE CONTENT.
 3. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT.
F. PLYWOOD BACKING PANELS: EXPOSURE 1, C-D PLUGGED, FIRE-RETARDANT TREATED.
G. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
H. METAL FRAMING ANCHORS:
 1. METAL: GALVANIZED STEEL; HOT-DIP HEAVY GALVANIZED STEEL FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED.
I. ADHESIVES: ADHESIVES SHALL HAVE A VOC CONTENT OF 70 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
1.2 INSTALLATION
A. FURRING TO RECEIVE PLYWOOD OR HARDBOARD PANELING: 1-BY-3-INCH NOMINAL-SIZE (19-BY-63-MM ACTUAL-SIZE) FURRING AT 24 INCHES O.C.
B. FURRING TO RECEIVE GYPSUM BOARD: 1-BY-2-INCH NOMINAL-SIZE (19-BY-38-MM ACTUAL-SIZE) FURRING AT 16 INCHES O.C.
END OF SECTION 061053

SECTION 06160 - ROUGH INTERIOR FRAMING
1.1 SUMMARY
A. WOOD BLOCKING AND NAILERS.
B. UTILITY SHELVING.
C. PLYWOOD BACKING PANELS.
1.2 MATERIALS
A. WOOD-PRESERVATIVE-TREATED LUMBER:
 1. PRESERVATIVE TREATMENT: AWPAC C2 WITH CHEMICALS CONTAINING NO ARSENIC OR CHROMIUM.
 a. AWPAC C31 (INORGANIC BORON) MAY BE USED IN PROTECTED LOCATIONS.
 2. APPLICATION: ITEMS INDICATED AND AS FOLLOWS:
 a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
 b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
 c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
 d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
B. FIRE-RETARDANT-TREATED MATERIALS:
 1. INTERIOR TYPE A: TREATED MATERIALS SHALL HAVE A MOISTURE CONTENT OF 28 PERCENT OR LESS WHEN TESTED ACCORDING TO ASTM D 3201 AT 92 PERCENT RELATIVE HUMIDITY. USE WHERE EXTERIOR TYPE IS NOT INDICATED.
 2. APPLICATION: ITEMS INDICATED AND AS FOLLOWS:
 a. CONCEALED BLOCKING.
 b. PLYWOOD BACKING PANELS.
C. DIMENSION LUMBER FRAMING: FOR ITEMS OF DIMENSION LUMBER SIZE, PROVIDE CONSTRUCTION OR NO. 2 GRADE LUMBER WITH 19 PERCENT MAXIMUM MOISTURE CONTENT OF ANY SPECIES.
D. PLYWOOD BACKING PANELS FOR TELEPHONE AND ELECTRICAL EQUIPMENT: MADE WITH ADHESIVES CONTAINING NO UREA FORMALDEHYDE.
E. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
 1. CONSTRUCTION ADHESIVE:
 a. VOC LIMITS: 70 G/L
 2. WOOD ADHESIVE:
 a. VOC LIMITS: 30 G/L
 3. CONTACT ADHESIVE:
 a. VOC LIMITS: 80 G/L
END OF SECTION 06160

WOOD AND PLASTICS (CONTINUED)

SECTION 064000 - INTERIOR ARCHITECTURAL WOODWORK
1.1 SUMMARY
A. INTERIOR STANDING AND RUNNING TRIM.
B. FLUSH WOOD PANELING AND WAINSCOTS.
C. MELAMINE CABINETS.
D. SOLID-SURFACING-MATERIAL COUNTERTOPS.
E. CLOSET AND UTILITY SHELVING.
1.2 QUALITY ASSURANCE
A. QUALITY STANDARD: AWI.
1.3 MATERIALS
A. WOOD PRODUCTS: COMPLY WITH THE FOLLOWING:
 1. HARDBOARD: AHA A135.4, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
 2. MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE 130, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
 3. MOISTURE RESISTANT MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE MD, MR50, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
 4. STRAW-BASED PARTICLEBOARD: ANSI A208.1, GRADE M-2, EXCEPT FOR DENSITY, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
 5. SOFTWOOD PLYWOOD: DDC PS 1
 6. VENEER-FACED PANEL PRODUCTS (HARDWOOD PLYWOOD): HPVA HP-1, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
B. ADHESIVES, GENERAL: DO NOT USE ADHESIVES THAT CONTAIN UREA FORMALDEHYDE.
C. VOC LIMITS FOR INSTALLATION ADHESIVES AND GLUES: USE INSTALLATION ADHESIVES THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
 1. WOOD GLUES: 30 G/L
 2. PANEL ADHESIVE: 50 G/L
 3. MULTIPURPOSE CONSTRUCTION ADHESIVE: 70 G/L
 4. CONTACT ADHESIVE: 80 G/L
 a. SPECIAL PURPOSE: 250 G/L
D. CLOSET AND UTILITY SHELVING:
 1. GRADE: ECONOMY
 2. SHELF MATERIAL: 3/4 INCH (19 MM) THERMOSET DECORATIVE PANEL WITH PVC OR POLYESTER EDGE BANDING.
 CLEATS: 3/4 INCH (19 MM) PANEL PRODUCT.
E. SHOP FINISHING:
 1. GRADE: SAME GRADE AS WOODWORK.
 2. EXTENT: ALL WOODWORK SHOP FINISHED.
1.4 INSTALLATION
A. SCRIBE AND CUT MILLWORK TO FIT ADJOINING WORK, REFINISH CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
B. ANCHOR MILLWORK TO ANCHORS OR BLOCKING BUILT IN OR DIRECTLY ATTACHED TO SUBSTRATES. SECURE WITH COUNTERSUNK CONCEALED FASTENERS AND BLIND NAILING AS REQUIRED FOR COMPLETE INSTALLATION. USE FINE FINISHING NAILS OR FINISHING SCREWS FOR EXPOSED FASTENING, COUNTERSUNK AND FILLED FLUSH WITH MILLWORK AND MATCHING FINAL FINISH IF TRANSPARENT FINISH IS INDICATED.
C. CABINETS: INSTALL WITHOUT DISTORTION SO DOORS AND DRAWERS FIT OPENINGS PROPERLY AND ARE ACCURATELY ALIGNED. ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION. COMPLETE INSTALLATION OF HARDWARE AND ACCESSORY ITEMS AS INDICATED.
 1. INSTALL CABINETS WITH NO MORE THAN 1/8 INCH IN 96 INCH (3 MM IN 2400 MM) SAG, BOW, OR OTHER VARIATION FROM A STRAIGHT LINE.
D. COUNTERTOPS: ANCHOR SECURELY BY SCREWING THROUGH CORNER BLOCKS OF BASE CABINETS OR OTHER SUPPORTS INTO UNDERSIDE OF COUNTERTOP.
 1. ALIGN ADJACENT SOLID-SURFACING-MATERIAL COUNTERTOPS AND FORM SEAMS TO COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS USING ADHESIVE IN COLOR TO MATCH COUNTERTOP. CAREFULLY DRESS JOINTS SMOOTH, REMOVE SURFACE SCRATCHES, AND CLEAN ENTIRE SURFACE.
 2. INSTALL COUNTERTOPS WITH NO MORE THAN 1/8 INCH IN 96 INCH (3 MM IN 2400 MM) SAG, BOW, OR OTHER VARIATION FROM A STRAIGHT LINE.
 3. SECURE COVERED BACKSPASHES TO TOPS PER MANUFACTURER'S FABRICATION MANUAL AND TO WALLS WITH ADHESIVE.
 4. CALK SPACE BETWEEN BACKSPASH AND WALL WITH SEALANT SPECIFIED IN DIVISION 7 SECTION "JOINT SEALANTS."
END OF SECTION 064000

SECTION 064400 - PLASTIC PANELING
PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES THE FOLLOWING:
 1. GLASS-FIBER REINFORCED PLASTIC (FRP) WALL PANELING.
 2. MOLDING, ADHESIVES, AND JOINT SEALANTS.
1.2 PLASTIC SHEET PANELING
A. GLASS-FIBER-REINFORCED PLASTIC PANELING: GELCOAT-FINISHED, GLASS-FIBER REINFORCED PLASTIC PANELS COMPLYING WITH ASTM D 5319.
 1. LOW-EMITTING MATERIALS: PANELING SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS.*
 2. NOMINAL THICKNESS: NOT LESS THAN 0.09 INCHES.
 3. COLOR: WHITE.
 4. MOLDING COLOR: WHITE.
 5. SURFACE FINISH: MOLDED PEBBLE TEXTURE.
B. UNREINFORCED POLYPROPYLENE PANELING: SOLID POLYPROPYLENE PANELS MADE FROM NO LESS THAN 80 PERCENT RECYCLED MATERIAL.
 1. LOW-EMITTING MATERIALS: PANELING SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S (FORMERLY, THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES)' STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS.
 2. NOMINAL THICKNESS: NOT LESS THAN 0.09 INCHES.
 3. COLOR: WHITE.
 4. MOLDING COLOR: WHITE.
 5. SURFACE FINISH: MOLDED PEBBLE TEXTURE.
1.3 ADHESIVES
A. AS RECOMMENDED BY PLASTIC PANELING MANUFACTURER.
 1. VOC LIMIT: 50 G/L
1.4 ACCESSORIES
A. TRIM ACCESSORIES: MANUFACTURER'S STANDARD ONE-PIECE VINYL EXTRUSIONS DESIGNED TO RETAIN AND COVER EDGES OF PANELS. PROVIDE DIVISION BARS, INSIDE CORNERS, OUTSIDE CORNERS, AND CAPS AS NEEDED TO CONCEAL EDGES.
 1. COLOR: WHITE.
END OF SECTION 064400

SECTION 079200 - JOINT SEALANTS
1.1 MATERIALS
A. VOC CONTENT OF INTERIOR SEALANTS: PROVIDE INTERIOR SEALANTS AND SEALANT PRIMERS THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
 1. SEALANTS: 250 G/L
 2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L
 3. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L
B. SUITABILITY FOR CONTACT WITH FOOD: WHERE SEALANTS ARE INDICATED FOR JOINTS THAT WILL COME IN REPEATED CONTACT WITH FOOD, PROVIDE PRODUCTS THAT COMPLY WITH 21 CFR 177.2800.
C. ELASTOMERIC JOINT SEALANTS: LIQUID APPLIED, CHEMICALLY CURING; ASTM C 920.
 1. MULTICOMPONENT NONSAG NEUTRAL-CURING SILICONE SEALANT ES-1.
 2. SINGLE-COMPONENT MILDEW-RESISTANT NEUTRAL-CURING SILICONE SEALANT ES-2.
 3. SINGLE-COMPONENT MILDEW-RESISTANT ACID-CURING SILICONE SEALANT ES-3.
 4. SINGLE-COMPONENT MILDEW-RESISTANT ACID-CURING RTV SILICONE SEALANT ES-4.
 5. MULTICOMPONENT NONSAG POLYUREA SEALANT ES-5.
 6. MULTICOMPONENT NONSAG POLYUREA FILLER ES-6.
 7. LATEX SEALANT LS-1: COMPLY WITH ASTM C 834, TYPE P, GRADE NF.
D. JOINT-SEALANT BLOCKING:
E. JOINT-SEALANT SCHEDULE
A. JOINT-SEALANT APPLICATION JS-1: EXTERIOR HORIZONTAL NONTRAFFIC AND TRAFFIC ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
 1. JOINT SEALANT: ES-5.
B. JOINT-SEALANT APPLICATION JS-2: EXTERIOR PERIMETER JOINTS BETWEEN WALL AND FRAMES OF DOORS AND WINDOWS.
 1. JOINT SEALANT: ES-1.
C. JOINT-SEALANT APPLICATION JS-3: EXTERIOR CONTROL AND EXPANSION JOINTS IN HORIZONTAL TRAFFIC SURFACES OF BRICK PAVERS, CERAMIC TILE, STONE PAVING UNITS, CONCRETE TILE.
 1. JOINT SEALANT: MULTICOMPONENT POURABLE POLYSULFIDE SEALANT.
 2. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
D. JOINT-SEALANT APPLICATION JS-4: INTERIOR PERIMETER JOINTS OF EXTERIOR OPENINGS.
 1. JOINT SEALANT: ES-3.
E. JOINT-SEALANT APPLICATION JS-5: INTERIOR CERAMIC TILE EXPANSION, CONTROL, CONTRACTION, AND ISOLATION JOINTS IN HORIZONTAL TRAFFIC SURFACES.
 1. JOINT SEALANT: ES-3.
 2. JOINT-SEALANT COLOR: AS NOTED.
F. JOINT-SEALANT APPLICATION JS-6: INTERIOR JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
 1. JOINT SEALANT: ES-3.
 2. JOINT-SEALANT COLOR: TRANSLUCENT.
G. JOINT-SEALANT APPLICATION JS-7: VERTICAL JOINTS ON EXPOSED SURFACES OF INTERIOR PARTITIONS.
 1. JOINT SEALANT: ES-3.
H. JOINT-SEALANT APPLICATION JS-8: PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS.
 1. JOINT SEALANT: ES-3.
I. JOINT-SEALANT APPLICATION JS-9: HVAC JOINTS.
 1. JOINT SEALANT: ES-2.
 2. JOINT-SEALANT COLOR: ALUMINUM.
J. JOINT-SEALANT APPLICATION JS-10: NON-POROUS MATERIAL TO NON-POROUS MATERIAL.
 1. JOINT SEALANT: ES-4.
 2. JOINT-SEALANT COLOR: CLEAR.
END OF SECTION 079200

THERMAL AND MOISTURE PROTECTION

SECTION 07841 - THROUGH-PENETRATION FIRESTOP SYSTEMS
1.1 SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.2 QUALITY ASSURANCE
A. INSTALLER QUALIFICATIONS: AN FM GLOBAL-APPROVED FIRESTOP CONTRACTOR OR A UL-QUALIFIED FIRESTOP CONTRACTOR.
B. FIRE-TEST-RESPONSE CHARACTERISTICS: TESTED PER ASTM E 814 BY QUALIFIED TESTING AND INSPECTING AGENCY.
1.3 PENETRATION FIRESTOPPING
A. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: F-RATINGS PER ASTM E 814 OR UL 1479.
B. PENETRATIONS IN HORIZONTAL ASSEMBLIES: F- AND T-RATINGS PER ASTM E 814 OR UL 1479.
C. PENETRATIONS IN SMOKE BARRIERS: L-RATINGS PER UL 1479.
D. W-RATINGS: PER UL 1479.
E. VOC CONTENT OF INTERIOR SEALANTS: PROVIDE INTERIOR SEALANTS AND SEALANT PRIMERS THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
 1. SEALANTS: 250 G/L
 2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L
 3. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L
1.4 INSTALLATION
A. IDENTIFICATION: PREPRINTED METAL OR PLASTIC LABELS, PERMANENTLY ATTACHED.
1.5 FIELD QUALITY CONTROL
A. INSPECTION OF INSTALLED FIRESTOP SYSTEMS: BY OWNER-ENGAGED AGENCY ACCORDING TO ASTM E 2174 REQUIREMENTS.
END OF SECTION 07841

SECTION 078446 - FIRE-RESISTIVE JOINT SYSTEMS
1.1 SUMMARY
A. FIRE-RESISTIVE JOINT SYSTEMS FOR THE FOLLOWING:
 1. JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS.
 2. JOINTS AT EXTERIOR CURTAIN-WALL/FLOOR INTERSECTIONS.
 3. JOINTS IN SMOKE BARRIERS.
1.2 PERFORMANCE REQUIREMENTS
A. FIRE-RESISTANCE RATINGS OF JOINT SYSTEMS IN AND BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS: EQUALING OR EXCEEDING THE FIRE-RESISTANCE RATINGS OF CONSTRUCTION THAT THEY JOIN. AND WITH MOVEMENT CAPABILITIES INDICATED AS DETERMINED BY UL 2079.
1.3 SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.4 QUALITY ASSURANCE
A. FIRE-TEST-RESPONSE CHARACTERISTICS: TESTED BY QUALIFIED TESTING AND INSPECTING AGENCY.
1.5 FIRE-RESISTIVE JOINT SYSTEMS
A. DESIGNATION SYSTEM FOR JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS: ALPHANUMERIC SYSTEMS LISTED IN UL'S "FIRE RESISTANCE DIRECTORY" UNDER PRODUCT CATEGORY "JBNB."
B. JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTION: EQUAL TO OR EXCEEDING THE FIRE-RESISTANCE RATING OF CONSTRUCTION THEY WILL JOIN.
C. JOINTS AT EXTERIOR CURTAIN-WALL/FLOOR INTERSECTIONS: EQUAL TO OR EXCEEDING THE FIRE-RESISTANCE RATING OF THE FLOOR ASSEMBLY.
D. JOINTS IN SMOKE BARRIERS:
 1. AT 0.30 INCH WG (74.7 PA) AT BOTH AMBIENT AND ELEVATED TEMPERATURES.
E. EXPOSED FIRE-RESISTIVE JOINT SYSTEMS: PROVIDE PRODUCTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, AS DETERMINED PER ASTM E 84.
F. VOC CONTENT: FIRE-RESISTIVE JOINT SYSTEM SEALANTS SHALL COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
 1. ARCHITECTURAL SEALANTS: 250 G/L
 2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L
G. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L.
H. ACCESSORIES: FORMING MATERIALS AND OTHER COMPONENTS NEEDED TO INSTALL FILL MATERIALS AND MAINTAIN RATINGS REQUIRED.
END OF SECTION 078446

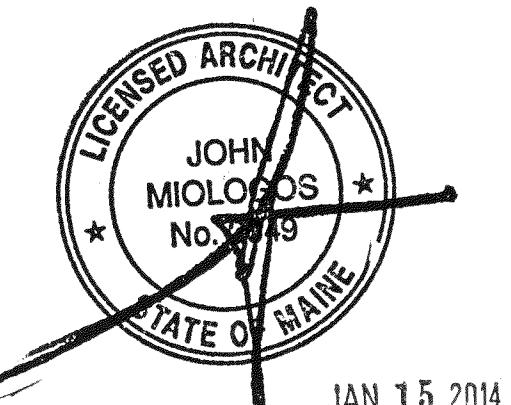
SECTION 079200 - JOINT SEALANTS
1.1 MATERIALS
A. VOC CONTENT OF INTERIOR SEALANTS: PROVIDE INTERIOR SEALANTS AND SEALANT PRIMERS THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
 1. SEALANTS: 250 G/L
 2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L
 3. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L
B. SUITABILITY FOR CONTACT WITH FOOD: WHERE SEALANTS ARE INDICATED FOR JOINTS THAT WILL COME IN REPEATED CONTACT WITH FOOD, PROVIDE PRODUCTS THAT COMPLY WITH 21 CFR 177.2800.
C. ELASTOMERIC JOINT SEALANTS: LIQUID APPLIED, CHEMICALLY CURING; ASTM C 920.
 1. MULTICOMPONENT NONSAG NEUTRAL-CURING SILICONE SEALANT ES-1.
 2. SINGLE-COMPONENT MILDEW-RESISTANT NEUTRAL-CURING SILICONE SEALANT ES-2.
 3. SINGLE-COMPONENT MILDEW-RESISTANT ACID-CURING SILICONE SEALANT ES-3.
 4. SINGLE-COMPONENT MILDEW-RESISTANT ACID-CURING RTV SILICONE SEALANT ES-4.
 5. MULTICOMPONENT NONSAG POLYUREA SEALANT ES-5.
 6. MULTICOMPONENT NONSAG POLYUREA FILLER ES-6.
 7. LATEX SEALANT LS-1: COMPLY WITH ASTM C 834, TYPE P, GRADE NF.
D. JOINT-SEALANT BLOCKING:
E. JOINT-SEALANT SCHEDULE
A. JOINT-SEALANT APPLICATION JS-1: EXTERIOR HORIZONTAL NONTRAFFIC AND TRAFFIC ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
 1. JOINT SEALANT: ES-5.
B. JOINT-SEALANT APPLICATION JS-2: EXTERIOR PERIMETER JOINTS BETWEEN WALL AND FRAMES OF DOORS AND WINDOWS.
 1. JOINT SEALANT: ES-1.
C. JOINT-SEALANT APPLICATION JS-3: EXTERIOR CONTROL AND EXPANSION JOINTS IN HORIZONTAL TRAFFIC SURFACES OF BRICK PAVERS, CERAMIC TILE, STONE PAVING UNITS, CONCRETE TILE.
 1. JOINT SEALANT: MULTICOMPONENT POURABLE POLYSULFIDE SEALANT.
 2. JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
D. JOINT-SEALANT APPLICATION JS-4: INTERIOR PERIMETER JOINTS OF EXTERIOR OPENINGS.
 1. JOINT SEALANT: ES-3.
E. JOINT-SEALANT APPLICATION JS-5: INTERIOR CERAMIC TILE EXPANSION, CONTROL, CONTRACTION, AND ISOLATION JOINTS IN HORIZONTAL TRAFFIC SURFACES.
 1. JOINT SEALANT: ES-3.
 2. JOINT-SEALANT COLOR: AS NOTED.
F. JOINT-SEALANT APPLICATION JS-6: INTERIOR JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
 1. JOINT SEALANT: ES-3.
 2. JOINT-SEALANT COLOR: TRANSLUCENT.
G. JOINT-SEALANT APPLICATION JS-7: VERTICAL JOINTS ON EXPOSED SURFACES OF INTERIOR PARTITIONS.
 1. JOINT SEALANT: ES-3.
H. JOINT-SEALANT APPLICATION JS-8: PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS.
 1. JOINT SEALANT: ES-3.
I. JOINT-SEALANT APPLICATION JS-9: HVAC JOINTS.
 1. JOINT SEALANT: ES-2.
 2. JOINT-SEALANT COLOR: ALUMINUM.
J. JOINT-SEALANT APPLICATION JS-10: NON-POROUS MATERIAL TO NON-POROUS MATERIAL.
 1. JOINT SEALANT: ES-4.
 2. JOINT-SEALANT COLOR: CLEAR.
END OF SECTION 079200



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Revision Schedule			
Rev	Date	By	Description



PROJECT NAME:
HAY BUILDING
PROJECT ADDRESS:
 594 CONGRESS STREET
 PORTLAND, ME 04101
COUNTY: CUMBERLAND

STORE #: 7433
PROJECT #: 04704-026
CONCEPT: NCS
PALETTE: REGIONAL MODERN
ISSUE DATE: 12-16-2013
DESIGN MANAGER: ETA KLIGER
LEED@AP: N/A
PRODUCTION DESIGNER: J.NEAL
CHECKED BY: T. REISING

SHEET TITLE:
DESIGN SPECIFICATIONS

SCALE: 1/4" = 1'-0"

SHEET NUMBER:
G-0011

FULL REMODEL