

SECTION 07900 - JOINT SEALERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Joint sealants for interior and exterior joints in vertical surfaces and horizontal nontraffic surfaces, except as otherwise specified.
2. Joint sealants and fillers in interior concrete floor slab-on-grade joints.
3. Joint sealant and fillers in exterior concrete sidewalks and pavement adjacent to building.

B. Related Requirements:

1. Section 01351 – Regulatory Compliance.
 - a. Disposal and removal of construction and universal waste.
 - b. Work practice control methods for airborne respirable dust.
2. Section 07530 - Elastomeric Membrane Roofing: Sealants associated with roofing.
3. Section 07840 - Firestopping: Joint seals around penetrations of fire-rated assemblies.
4. Section 09650 - Resilient Flooring: Joint filler for control/construction joints concealed by floor finish material.
5. Section 09900 - Paints and Coatings: Protection of wall joints from painting prior to sealing.

1.2 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.

B. ASTM International (ASTM):

1. ASTM C920 - Specification for Elastomeric Joint Sealants.
2. ASTM C1330 - Cylindrical Sealant Backing for Use with Cold Liquid Applied Sealants.
3. ASTM D 1056 - Flexible Cellular Materials-Sponge or Expanded Rubber.
4. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials

C. Occupational Safety and Health Administration (OSHA):

1. OSHA 01926.1153 Respirable Crystalline Silica.

1.3 ENVIRONMENTAL REQUIREMENTS

- A. Minimize dust emissions and provide equipment that suppresses dust.

1.4 SUBMITTALS

- A. Installer Qualification Certification: Provide certification letters for the installers of the following:

1. Polyurea Joint Filler.

- B. Letter shall be from the product manufacturer stating that the installer is qualified and certified by the manufacturer to install the material to be used, citing the specific project and location.

- C. Provide minimum of 15 projects, with locations, performed within the last 3 years, similar in type and size to this project.

- D. Product Data: Brand name, chemical composition, installation directions and certificates of compliance with required standards for the following products:

1. Elastomeric joint materials (sealant and back-up material).
2. Preformed expansion (isolation) joint filler (PMEJ)

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3. Polyurea joint filler.
4. Submit 30 days prior to first concrete placement.

1.5 QUALITY ASSURANCE

- A. Interior sealants in food preparation areas shall meet the compositional requirements for use in USDA regulated facilities, as required by FDA according to 21 CFR 177.2600, and local authorities having jurisdiction.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not install solvent curing sealants in enclosed building spaces.
- B. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

PART 2 - PRODUCTS

2.1 ELASTOMERIC SEALANTS (BUILDING)

- A. General: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- B. Sealants identified as (Non-USDA) shall not be used in food preparation areas.
- C. Manufacturers:
 1. BASF Building Systems (Formerly Sonneborn Building Products). (952) 496-6000, Craig Agney.
 2. Dap Products, Inc. (800) 325-6180.
 3. CSS Polymers, Inc. (770) 645-0101.
 4. Dow Corning Corporation. www.dowcorning.com
 5. Euclid Chemical Co., (877) 438-3826.
 6. Franklin International, (800) 877-4583.
 7. GE Silicones & GE Sealants and Adhesives (Momentive Performance Materials). (877) 943-7325 www.gesilicones.com
 8. Metzger/McGuire, (800) 223-6680.
 9. Pecora Corporation. (215) 796-1401, Keith Waters. www.pecora.com
 10. Tremco Sealant/Weatherproofing Division. (800) 841-3778. Jack Sykes. www.tremcosealants.com
 11. VersaFlex Inc. (913) 321-1416
 12. W. R. Meadows, Inc., (847) 214-2100.
- D. Polyurethane Sealants (USDA Certified, unless otherwise noted):
 1. Polyurethane Sealant #1 (P1): ASTM C920, Type S, Grade NS, Class 25, single component.
 - a. Vulkem 116, Dymonic, or Dymonic FC by Tremco.
 - b. Dynatrol I-XL, by Pecora.
 - c. Sonolastic NP-1, by BASF.
 2. Polyurethane Sealant #2 (P2): ASTM C920, Type S, Grade P, Class 25, single component.
 - a. Vulkem 45 (Non-USDA), by Tremco.
 - b. Urexpan NR-201, by Pecora.
 - c. Sonolastic SL-1, by Sonneborn.
 3. Polyurethane Sealant #3 (P3): ASTM C920, Type M, Grade NS, Class 50, multi-component.
 - a. Dymeric 240FC, by Tremco.
 - b. Sonolastic NP-2 by BASF.
 - c. Dynatrol II (Non-USDA) by Pecora.
- E. Silicone Sealants (USDA Certified, unless otherwise noted):
 1. Silicone Sealant #1 (S1): ASTM C920, Type S, Grade NS, Class 25.
 - a. Spectrem 1, Spectrem 2, or Spectrem 3, by Tremco.
 - b. 791 Silicone Perimeter Sealant (Non-USDA), by Dow

- c. 864 or 890 by Pecora.
 - d. Sonolastic 150 by BASF.
 - e. SilPruf SCS2000 (Non-USDA), by GE.
 - f. Titebond 100% Silicone Sealant by Franklin International.
2. Silicone Sealant #2 (S2): ASTM C920, Type S, Grade NS, Class 25, mildew resistant.
- a. Tremsil 200, by Tremco.
 - b. 898 by Pecora.
 - c. 786 Silicone Sealant (Non-USDA), by Dow.
 - d. Sanitary SCS1700 (Non-USDA), by GE.

F. Sealant Color:

- 1. In interior and exterior exposed areas, match color of adjacent paint color finish or other adjacent finish color.
- 2. In joints where plumbing fixtures meet adjacent floor and wall finishes, match color of plumbing fixture.
- 3. Use clear, colorless sealant where applied to stainless steel surfaces.

2.2 EXPANDING FOAM SEALANTS

A. Polyurethane Expanding Foam Sealants:

- 1. Polyurethane Expanding Foam Sealant #1 (EF1): Closed-cell foam and non-flammable propellant; urea formaldehyde-free, CFC-free; UL Class 1 Foam with flame spread of 20 and smoke developed of 25 as tested in accordance with ASTM E84.
 - a. Touch'n Seal Quick Cure, by Dap Products.
 - b. Space Invader by GE Sealants & Adhesives, (877) 943-7325.

2.3 JOINT FILLER (BUILDING)

A. Preformed Control Joint Filler:

- 1. Regular Joint: 2-5/8 inches by 1-1/2 inches; rubber.
 - a. RS-STANDARD Control Joint by Hohmann & Barnard, Inc., Hauppauge, NY (800) 645-0616.
 - b. Masonry Control Joint No. 571 by Greenstreak, St. Louis, MO (800) 325-9504.
- 2. Tee Joint: 2-5/8 inches by 1 inch; rubber.
 - a. RS-TEE Control Joint by Hohmann & Barnard.
 - b. Masonry Control Joint No. 572 by Greenstreak.

B. Expansion Joint Filler (Compression Seal):

- 1. Backerseal (Grayflex) expanding precompressed foam by Emseal Joint Systems, Ltd., Westborough, MA (800) 526-8365.
- 2. Willseal 600 polyurethylene foam joint sealing tape by Willseal USA, Pelham, NH (800) 438-0684.

2.4 JOINT-SEALANT BACKING (BUILDING)

A. Sealant Backing (Backer Rod): 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.

- 1. Cylindrical Sealant Backings: ASTM C 1330, types as approved by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
 - a. Backer Rod for Exterior Masonry: Closed cell foam, oversized 50 percent; self-expanding.
- 2. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056,

B. Bond-Breaker Tape: Polyethylene tape 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.

2.5 INTERIOR SLAB ON GRADE JOINT SEALANT MATERIALS

- A. Preformed Expansion (Isolation) Joint Filler (PMEJ) Strips: Flexible closed-cell synthetic foam expansion joint strips, non-extruding, for full depth of concrete.
 - 1. Ceramar Flexibe Foam Expansion Joint, by W.R. Meadows.
 - 2. Deck-O-Foam Expansion Joint Filler, by W.R. Meadows
 - 3. Expansion Joint Filler, by BASF Building Systems (Degussa) (Formerly Sonneborn Sonolastic).
- B. Elastomeric Joint Materials:
 - 1. Sealant:
 - a. Polyurethane Sealant: No. 2 (P2) as specified above.
 - b. Color: Match color of adjacent exposed surface of concrete slab..
 - c. Sealant shall be compatible with construction material placed against it.
 - 2. Joint Back-Up Material:
 - a. Polyethylene Foam, 100% closed cell.
 - b. Material shall be compatible with construction material to be placed against it such as tile adhesive.
- C. Polyurea Joint Filler (PY1): Rapid setting, two-component polyurea polymer liquid of 100% solids content, Shore Hardness 85 to 92, compatible with construction material placed against it. (USDA Certified, unless otherwise noted.)
 - 1. Spall-Pro RS 88 (Non-USDA), by Metzger/McGuire.
 - 2. Euco Qwik Joint 200 (Non-USDA), by Euclid Chemical.
 - 3. Hi-Tech PE85 by HI-TECH Systems.
 - 4. VersaFlex SL/85, by VersaFlex.
 - 5. Quick Joint 85, by CSS Polymers.
 - 6. Match color of adjacent exposed surface of concrete.

2.6 EXTERIOR PAVEMENT JOINT MATERIALS

- A. Joint Back-up Material: Polyethylene foam, 100% closed cell
- B. Sealant:
 - 1. Dow 888, by Dow Corning.
 - 2. 301 NS by Pecora.
 - 3. Spectrum 800 or 900 by Tremco.
- C. Soft Preformed Joint Filler: Flexible closed-cell non-extruding synthetic foam expansion joint strips.
 - 1. Ceramar Flexibe Foam Expansion Joint, by W.R. Meadows.
 - 2. Deck-O-Foam Expansion Joint Filler, by W.R. Meadows
 - 3. Expansion Joint Filler, by BASF Building Systems (Degussa) (Formerly Sonneborn Sonolastic).

2.7 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces and joint openings are ready to receive work and field measurements are as indicated on Drawings.
- B. Beginning of installation means installer accepts existing substrates.

3.2 PREPARATION

- A. Clean and prime joints in accordance with manufacturer's instructions.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Verify that joint backing and release tapes are compatible with sealant.
- D. Protect elements surrounding work of this Section from damage or disfiguration.

3.3 INSTALLATION

- A. Install sealant in accordance with manufacturer's instructions.
- B. Measure joint dimensions and size materials to achieve required width/depth ratios.
- C. Install sealant backings of kind 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, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install bond breaker where joint backing is not used.
- E. Apply sealant within recommended temperature ranges. Consult manufacturer when sealant cannot be applied within recommended temperature ranges.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- G. Tool joints concave.

3.4 INTERIOR SLAB ON GRADE JOINT SEALING AND FILLING

- A. General:
 - 1. Seal/fill contraction, isolation and construction joints in floor slabs and pavements, unless otherwise indicated on Drawings or specified herein.
 - 2. Unless noted otherwise, use polyurea joint filler in floor slab contraction and construction joints and use elastomeric joint sealant in isolation joints.
 - 3. Use pavement sealant in pavement's contraction, construction, and isolation joints.
 - 4. Do not seal joints with materials specified herein when below relatively impervious floor finish material, such as PVC flooring, sheet rubber, wood, epoxy topping; refer to floor finish specification for joint sealing requirements.
 - 5. Do not place polyurea joint filler under resilient flooring. Coordinate placement of polyurea joint filler with joint filler placement specified under resilient flooring as specified in Section 09650.
- B. Cleaning:
 - 1. Immediately prior to sealing/filling, clean joints to full depth of sealant/filler in accordance with manufacturer's recommendation.
 - 2. Use vacuum with HEPA-rated filter to remove loose dirt, debris, saw laitance, and other foreign material from joint.
 - 3. Clean inner joint walls mechanically using one of the following HEPA-rated filter tools as recommended by the manufacturer for maintaining dust emissions below the permissible level
 - a. Humpback Dustless Joint Saw by Joe Due Blades & Equipment, www.joedue.com.
 - b. Dust Buggy by U.S. Saws, Santa Ana, CA (866) 987-7297.
 - c. Gorilla Concrete Tools GCT-10 or GCT-9 Silverback by OBHC, Inc., Columbia Station, OH, (440)

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4. Clean joint walls to the full depth of saw cuts and 2 inch minimum depth in construction joints that may not have been saw cut to create a support shelf.
 5. Remove form release agent, curing compound, or other components.
- C. General Installation:
1. Commence placing floor joint sealant / filler no sooner than 30 days after first placement of concrete.
 2. If joint is wet or damp, allow joint to dry for 72 hours prior to filling.
 3. Delay floor joint sealing / filling operations until facility's environmental systems have been placed in operation for 14 days.
 4. Mix and install sealant and filler in accordance with manufacturer's recommendations. Use primer if recommended for specific application.
 5. Choke off shrinkage crack if necessary at bottom of contraction joint or void below construction joints by the following methods.
 - a. Saw Cut Contraction Joints:
 - 1) Place 1/8 inch to 1/4 inch (maximum) layer of dry-bagged silica sand in joint to be epoxy filled. Do not use compressible backer rod. Use methods in handling sand to maintain dust emissions below the permissible level.
 - b. Construction Joints Through Slab: Fill by inserting compressible backer rod to a minimum depth of 2 inches below slab surface.
 6. Do not allow sealant / filler to extend over joint edges in finished condition.
- D. Elastomeric Joint Sealant Installation:
1. Use joint back-up material.
 2. Tool surface to provide smooth, attractive appearance and geometry recommended by sealant manufacturer.
- E. Joint Filler Installation
1. Installation shall be by installer who is approved in writing by the manufacturer's corporate office for this project.
 2. Cleaning: Immediately prior to filling, clean and prepare joint bottom and sidewalls as specified herein for general cleaning.
 3. Do not use joint back-up material (i.e. backer rod, sand, etc.) except below bottom of saw cut in construction joints. Provide a minimum joint filler depth of 2 inches.
 4. Install test sample of the polyurea joint filler to determine if filler will leave a stain, shadow, or film on slab surface.
 5. If test sample reveals stain, shadow, or film, use joint filler stain preventing film at joints to receive polyurea joint filler.
 6. Fill joint using single pass method. Fill joint full depth from bottom to top, leave slight crown at slab surface.
 7. Add extra filler prior to filler set if needed to prevent depressed areas. If concave filler is already set, abrade with wire wheel or similar tool to minimum depth of 1/4" below surface prior to refilling.
 8. Razor off crowned filler flush with floor surface after filler has sufficiently set.
 9. Remove stain preventing film (if used). Film shall be removed by joint filler installer immediately after shaving joint filler.
 10. One week prior to Grand Opening, refill joints if:
 - a. Joint filler sidewall separation or splitting exceeds 1/32 in.
 - b. Joint filler surface profile is concave, crowned, or chattered or if voids occur.
 11. Follow manufacturer's requirements for joint preparation for proper adhesion.
- F. Isolation Joints: Form isolation joints of preformed joint-filler strips (PMEJ) where indicated.
1. Extend joint fillers full width and depth of joint.
 2. Terminate joint filler or otherwise provide joint sealant cavity of not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
 3. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
 4. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.

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5. Protect top edge of joint filler during concrete placement with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.

3.5 EXTERIOR SIDEWALK AND PAVEMENT JOINT SEALING AND FILLING

- A. Fill and seal sidewalk and pavement joints in areas of pavement adjacent to the building. Joint filling and sealing of sidewalks and pavement not adjacent to building is specified in Division 2.
- B. Joint Fillers: Extend joint fillers full-width and depth of joint, and not less than 1/2-inch or more than 1-inch below finished surface where joint sealer is indicated. Furnish joint fillers in 1-piece lengths for full width being placed, wherever possible. Where more than 1 length is required, lace or clip joint filler sections together.
- C. Joint Sealants: Joints shall be sealed as shown and scheduled and shall be installed in accordance with manufacturer's recommendations.

3.6 SCHEDULE

- A. Provide sealants in accordance with the following schedule. Joint sealing required by the drawings or required for a complete and proper installation but not listed in the following schedule shall be sealed as necessary regardless of whether shown or scheduled. Such joints not shown or scheduled shall be sealed with sealants consistent with specified materials or as recommended by the manufacturer for the specific application.

EXTERIOR JOINTS					
	MATERIAL	TO	MATERIAL	JOINT WIDTH	SEALANT TYPE
SITE	Concrete Sidewalk Control Joint		Concrete Sidewalk	1/4"	Sidewalks adjacent to building: See Materials Par. Otherwise: See Division 2.
	Concrete Sidewalk Expansion Joint		Concrete or CMU	1/2"	See above
	Concrete Paving Control Joint		Concrete Paving	1/4"	Pavement adjacent to building: See Materials Par. Otherwise: See Division 2.
	Concrete Paving Expansion Joint		Concrete	1/2"	See above
	Concrete Stair Expansion Joint		Concrete or CMU	1/2"	P1 or P3
	Concrete Curb Expansion Joint		Concrete or CMU	1/2"	See Division 2
	BUILDING WALL	CMU Wall Control Joint, 3/8"		CMU Wall	3/8"
CMU Wall Expansion Joint, 1"			CMU Wall	1"	P1 or P3
EIFS Wall			CMU or Cast Concrete shapes	1/2"	P1 or P3
EIFS Cornice/Trim			CMU or EIFS	1/2"	P1 or P3
WALL FLASHING	Metal Flashing		Metal Flashing		S1
	Metal Flashing		CMU, EIFS, Aluminum Storefront Frame	1/4"	P1 or P3
SOFFITS	Gypsum Soffit Control Joint		Gypsum Soffit	3/8"	P1 or P3
	Gypsum Soffit Perimeter Expansion Joint		EIFS or CMU	3/8"	P1 or P3
	Metal Soffit Panel Trim		EIFS or CMU		P1 or P3
WALL PENETRATIONS	Aluminum Storefront Frame		CMU, EIFS, Aluminum Storefront Frame	1/4"	P1 or P3
	Aluminum Storefont Sill		Cast Concrete Shapes or Concrete Slab	1/4"	P1 or P3
	Aluminum Storefront Door Threshold		Concrete Slab		P1 or P3
	Translucent Insulated Panels		Translucent Insulated Panels, EIFS, Metal Flashing	1/4"	S1
	Hollow Metal Door Frame		CMU Wall, Tube Steel Frame	1/4"	P1 or P3
	Hollow Metal Door Threshold		Concrete Slab		P1 or P3
	Steel Corner Angle Frame		CMU Wall	1/4"	P1 or P3
	Steel Pipe and/or Conduit Through		CMU, EIFS, Concrete	1/2"	P1 or P3
	Ganged Steel Conduit Through		CMU, EIFS, Concrete	1/2"	P3
	PVC and/or Copper Pipe Through		CMU, EIFS, Concrete	1/2"	P1 or P3

EXTERIOR JOINTS					
	MATERIAL	TO	MATERIAL	JOINT WIDTH	SEALANT TYPE
ROOF MEMBRANE AREA	Roofing Membrane		Roofing Membrane		See Roofing Section
	Roofing Membrane		Waterproof Wall Membrane		See Roofing Section
	Roofing Membrane		Metal Facia		See Roofing Section
	Roofing Membrane		Molded Pipe Flashing		See Roofing Section
	Waterproof Membrane		Metal Facia, Plates, Bolts		P1 or P3
	Waterproof Membrane		Steel Conduit	1/2"	P1 or P3
	Metal Cap Flashing Joint		Metal Cap Flashing	1/8"	S1
	Metal Cap Flashing Expansion Joint		Metal Cap Flashing	1"	S1
	Metal Cap Flashing		Gasketed Fasteners		S1
	Skylight Flashing Joints		Skylight Flashing		S1
	Vent Flashing Joints		Vent Flashing		S1
	Smoke Vent Flashing Joints		Smoke Vent Flashing		S1
	RTU Flashing Joints		RTU Flashing		S1
	Waterproof Membrane Termination Bar		CMU Wall	1/4"	S1
	Steel Gutter		Steel Gutter or Downspout		S1
	Steel Downspout		Steel Downspout		S1
Urethane Rubber Seal System		Steel Pipe/ Flue	Varies	See Section 07530	
ROOF METAL/ FIBERGLASS PANELS	Roof Panel		Flue Penetration Flashing		P1 or P3
	Roof Panel		Gutter		P1 or P3
	Roof Panel		End Closure		P1 or P3

INTERIOR JOINTS					
	MATERIAL	TO	MATERIAL	JOINT WIDTH	SEALANT TYPE
FLOOR	Concrete Floor		Concrete Floor		
	Contraction and Construction Joint			1/4"	See Materials Par.
	Expansion Joint			3/4"	Same
	Isolation Joint			See Dwgs	Same
	Concrete Curb In Grocery		Concrete Floor		Same
	Ceramic Tile Expansion Joints		Ceramic Tile	Ref Mfr.	P1 or P3
	Quarry Tile Expansion Joints		Quarry Tile	Ref Mfr.	P1 or P3
	Floor Joints Beneath Floor Finish Materials (VCT or PVC Flooring)				See Section 09650
	Transition Strip (Korlyte)		Concrete Slab		PY1
	Mop Sink		Floor		P1 or P3
	Sanitary Cove Base (SCB)		Floor		See Section 09655
	Wood Base		Concrete Floor		P1 or P3
Structural Steel Column		VCT/PVC		P1	

INTERIOR JOINTS					
	MATERIAL	TO	MATERIAL	JOINT WIDTH	SEALANT TYPE
WALLS	CMU Wall Control Joint, 3/8"		CMU Wall	3/8"	P1
	CMU Wall Expansion Joint, 1"		CMU Wall	1"	P1
	Rated Gypsum Board Wall Control Joint		Rated Gypsum Board Wall		
	Rated Gypsum Board Wall		Metal Roof Deck or Rated CMU Wall		See Section 07840 - Firestopping
	Gypsum Board		CMU Walls	3/8"	P1 (Use edge trim, ref. Section 09250)
	Ceramic Tile		Wood or Galvanized Steel Base Trim		P1 or P3
	Ceramic Tile		Stainless Steel		S1 or S2
	Ceramic Tile		Ceramic Tile		P1 or P3
	Fiber Reinforced Wall Panel (FRP)		Galvanized Steel Base Trim		See Section 06610
	Fiber Reinforced Wall Panel (FRP)		Ceramic Tile		See Section 06610
	Stainless Steel Corner Guards		Ceramic Tile		S1 or S2
	Stainless Steel Corner Guards		Wall		S1 or S2
	Plastic Base		Grocery Equipment Wall		P1 or P3
	Plastic Base		Ceramic Tile or Gypsum Board Wall		P1 or P3
	Plastic Base		Concrete or Quarry Tile Floor		P1 or P3
	Sanitary Cove Base (SCB)		Wall		See Section 09655
	Wood Base		Plywood Wainscot		P1
	Joins shown on the drawings to be sealed with Expanding Foam Sealant				EF1
WALL PENETRATIONS	Aluminum Storefront Frame		Alum Storefront Frame, CMU, or Gypsum Board	1/4"	P1
	Aluminum Storefront Sill		Gypsum Board Wall or Cast Concrete Shapes	1/4"	P1
	Hollow Metal Door Frame		CMU or Gypsum Board	1/4"	P1
	Steel Corner Angle Frame		CMU Wall	1/4"	P1
	Steel Pipe or Conduit Through		CMU Wall	1/2"	P1
	Steel Pipe or Conduit Through		Gypsum Board	1/4"	P1
PVC or Copper Pipe Through		CMU or Gypsum Board	1/2"	P1	
Steel, PVC, or Copper Pipe Through		Rated CMU or Gypsum Board Wall		See Section 07840	
Steel Conduit Through		Rated CMU or Gypsum Board Wall		See Section 07840	
TOILET	Sink		Ceramic Tile Wall		S2

INTERIOR JOINTS					
	MATERIAL	TO	MATERIAL	JOINT WIDTH	SEALANT TYPE
FIXTURES	Floor Mount Toilet		Ceramic Tile Floor		S2
	Wall Mount Toilet or Urinal		Ceramic Tile Wall		S2
GROCERY EQUIP	Pre-manufactured Freezer		Concrete Curb		P1 or P3
	Pre-manufactured Freezer		Plastic Transition Strip		P1 or P3
	Pre-manufactured Freezer		Concrete Floor		P1 or P3
	Refrigerated Case Trim		Refrigerated Case		S1 or S2
	Refrigerated Case Trim		Concrete Floor		S1 or S2
	Stainless Steel Equipment		Fiberglass Reinforced Plastic (FRP) Wall Panels		S1 or S2
	Stainless Steel Equipment		Ceramic Tile		S1 or S2
EWC	Electric Water Coolers		Ceramic Tile		P1 or P3
COUNTER	Plastic Laminate Counter Tops		Gypsum Board or Plastic Laminate Walls		S2

END OF SECTION