
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 03 30 00 – Cast-in-place Concrete.
- .2 Section 07 92 00 – Joint Sealants.
- .3 Section 09 21 16 – Gypsum Board Assemblies.
- .4 Section 09 30 13 – Ceramic Tiles.
- .5 Section 09 96 56 – Epoxy Coatings.

1.2 REFERENCES

- .1 Aluminum Association (AA)
 - .1 AA DAF 45-03(R2009), Designation System for Aluminum Finishes.
- .2 ASTM International
 - .1 ASTM A167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM D412-06ae2, Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers - Tension.
 - .3 ASTM D2240-05(2010), Standard Test Method for Rubber Property - Durometer Hardness.
 - .4 ASTM D2628-91(2011), Standard Specification for Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements.
- .3 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1113-A2011, Architectural Coatings.
 - .2 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.
- .4 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual – current edition.
 - .1 MPI #79 Primer, Alkyd, Anti-Corrosive for Metal.
 - .2 MPI #80 Primer, Vinyl Wash.
 - .3 MPI #95 Primer, Quick Dry, for Aluminum.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for expansion joint cover assemblies and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:

-
- .1 Submit drawings stamped and signed by professional engineer registered or licensed in Quebec, Canada.
 - .2 Indicate on drawings:
 - .1 Lengths, fasteners, accessories, anchors, seals, butt joints and locations, finishes and profiles required for each condition.
 - .4 Samples:
 - .1 Submit duplicate 150 mm long samples of each type and finish expansion joint cover assemblies.

1.4 QUALITY ASSURANCE

- .1 Certificates:
 - .1 Submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .2 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.
- .3 Manufacturers Field Services:
 - .1 Submit manufacturers field reports.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect expansion joint cover assemblies from [nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, packaging materials as specified in Construction Waste Management Plan and in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.6 ACCEPTABLE PRODUCTS AND MATERIALS

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 DESIGN REQUIREMENTS

- .1 Joint movement: design to permit unrestricted lateral and omnidirectional movement of up to +/-50% of joint width.
- .2 Refer to drawings for structural expansion joints between existing structure and new building. Joint width varies between +/-12mm and +/-50mm depending on location, floors, walls and ceilings.

2.2 MATERIALS

- .1 Aluminum extrusions: alloy and temper to suit project requirements.
- .2 Stainless steel brake formed or roll formed sections: to ASTM A167, type 304, satin finish.
- .3 Extruded vinyl acrylic profiles: high impact resistant, vinyle-acrylique ayant une haute résistance aux chocs, process coloured, colour selected by Departmental Representative among manufacturer's standard range.
- .4 Flexible inserts:
 - .1 Extruded filler strips: neoprene to ASTM D2628. Colour selected by Departmental Representative from manufacturer's standard range.
- .5 Paints and Coatings: Refer to Section 09 91 23 – Interior Paint.
- .6 Accessories:
 - .1 Substrate seal: continuous, flexible vinyl seals to provide watertight and light tight juncture along base of joint covers.
 - .2 Butt joint seal: to provide watertight and light tight seal between lengths of joint covers.
 - .3 Spring clips: stainless steel.
 - .4 Waterstop: continuous flexible vinyl.
 - .5 Exposed fasteners: to match rigid joint cover finish.
 - .6 Concealed fasteners and anchors: stainless steel or extruded aluminum.
 - .7 Extruded filler strip, adhesives and water stops.
 - .8 Chemical fasteners and anchors: provide chemical anchoring as per manufacturers specifications to avoid joint face spalling.
 - .9 Epoxy levelling bed: minimum 6 mm epoxy levelling bed under metal rails.
 - .10 Elastomeric concrete: shop poured filler to allow multidirectional movement and maintain cohesion and adhesion.

2.3 FABRICATION

- .1 Fabricate expansion joint covers, square, true, straight and accurate to required sizes and profiles.
- .2 Fabricate in maximum practical lengths to minimize joints.
- .3 Shop assemble covers ready for installation where practicable.

- .4 Fabricate joint cover assemblies with anchors, levelling nuts, filler inserts [shop applied protection] as required for a complete installation to suit installation and project requirements.
- .5 Fabricate acceptable means of anchorage, such as anchor clips, expansion bolts and shields, welded studs or toggles.
- .6 Factory fabricate terminations and transitions.

2.4 COVER PLATE

- .1 Floor joint cover plate: stainless steel material, indicated thickness with plain face, with finish and colour selected by Departmental Representative.
- .2 Wall joint cover plate: stainless steel or anodized aluminum material, indicated thickness with plain face, with finish and colour selected by Departmental Representative.
- .3 Ceiling joint cover plate: stainless steel or anodized aluminum material, indicated thickness with plain face, with finish and colour selected by Departmental Representative.

Partie 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for expansion joint cover assemblies installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 MANUFACTURER'S RECOMMENDATIONS

- .1 Comply with manufacturer's written data, including product technical bulletins, product catalogue installation recommendations, product carton installation recommendations and data sheets.

3.3 INSTALLATION

- .1 Set work plumb, square, level, free from distortion.
- .2 Secure work accurately to structure in manner not restricting joint movement.
- .3 Maintain continuity of vapour retarder.
- .4 Seal butt joints in accordance with manufacturer's written recommendations to provide watertight joints using sealant.
- .5 Protect cover plates during construction. Remove shop protection prior to final inspection.

-
- .6 Ensure sound and clean substrates before installation.

3.4 FIELD QUALITY CONTROL

- .1 Have manufacturer of products supplied under this Section review Work involved in handling, installation/application, protection and cleaning of its products, and submit written reports in acceptable format to verify compliance of Work with Contract.

3.5 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
- .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Remove traces of primer, caulking, epoxy and filler materials; clean expansion joint covers.

3.6 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by control and expansion joint cover assembly installation.

END OF SECTION