



SpandrelTech Ltd. GALVSPAN™

GALVANIZED STEEL CURTAIN WALL BACK PANS

SPECIFICATION

This specification has been numbered, organized and formatted in accordance with the MasterFormat, Section Format and Page Format documents published jointly by Construction Specifications Canada (CSC) and Construction Specifications Institute (CSI).

The content of this specification is of general order and must be adapted to the specific requirements of a project. It is offered as a guide to experienced and knowledgeable construction professionals who must assume full responsibility for its interpretation and use. SpandrelTech Ltd. is a panel material supplier only and does not provide installation services.

The square brackets [] containing texts indicate an option to be inserted by the specifier. Remove brackets and unused options before printing.

Part 1. General

1.01 SECTION INCLUDES

- A. Custom fabricated, galvanized steel curtain wall back pans.
- B. Semi-rigid board insulation mechanically fastened.

1.02 RELATED REQUIREMENTS

- A. Structural steel supports to which cladding framing is attached [Section 05 10 00]
- B. Cold formed metal framing [Section 05 40 00]
- C. Board insulation behind cladding [Section 07 21 13]
- D. Joint sealing [Section 07 92 13]

1.03 REFERENCE STANDARDS

- A. ASTM 653/A, 653M-06 Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanized) by Hot Dip Process
- B. CGSB 19-GP-14M. Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing Butyl
- C. ASTM A 123/A123M-02 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

1.04 DESIGN REQUIREMENTS

- A. Design metal cladding to provide for thermal movement of component materials caused by ambient temperature range of 80°C (176°F) without causing buckling, failure of joint seals, undue stress on fasteners or other detrimental effects.

1.05 SUBMITTALS

- A. Submit the following in accordance with Section [01 33 00 - Submittal Procedures]
 - 1. Product Data: Back pan manufacturer's printed product literature and specifications.

2. Samples: Duplicate 300 mm x 300 mm (12" x 12") samples of back pan material, of colour and profile specified.
3. Shop Drawings: Indicate dimensions, profiles, attachment methods, schedule of wall elevations, and related work.

B. Warranty: Provide back pan manufacturer's sample warranty certificate.

1.06 QUALITY ASSURANCE

A. Back pan manufacturer: to have minimum of ten projects of similar type in the past 5 years.

B. Installer: to have minimum 5 years' experience installing similar products.

C. Mock-up

1. Construct mock-up consisting of a minimum of 2 over 2 back pans.
2. Include following components in mock-up:
 - a. Structural support framing.
 - b. Associated components and accessories.
 - c. Fastening system.
 - d. Insulation.
3. Erect mock-up as part of building installation, leave in place when accepted.
4. Obtain [Consultant's] [Architect's] [Engineer's] review of mock-up prior to proceeding with back pan installation work.
5. Approved mock-up to serve as standard of quality of installation for this project. All back pans must be reviewed in accordance to sample as noted in 1.05 of this section.

1.07 DELIVERY, STORAGE AND HANDLING

SPEC NOTE: A. below is a unique requirement provided by the back pan manufacturer for the handling and installation convenience of the contractor.

- A. Deliver back pans on a floor-by-floor or elevation-by-elevation basis as required by the contractor for installation convenience.
- B. Do not expose back pans with strippable film to direct sunlight or extreme heat.
- C. Discard any damaged products.

1.08 WASTE MANAGEMENT AND DISPOSAL

- A. Separate waste materials for [reuse] [and] [recycling] [_____] in accordance with Section [01 74 19 - Construction/Demolition Waste Management and Disposal] [_____].
- B. Divert used metal cut-offs from landfill by disposal [into the on-site metals recycling bin] [removed for disposal at the nearest metal recycling facility] [_____].
- C. Divert reusable materials for reuse at nearest used building materials facility.
- D. Divert unused caulking, sealants, and adhesive materials from landfill through disposal at hazardous material depot.

Part 2. Products

2.01 MANUFACTURERS

- A. Acceptable Back Pan Manufacturer: SpandrelTech Ltd., 16 Erin Park Drive, Erin, Ontario N0B 1T0; Tel: (519) 833-9684 or 1-888-833-9684; Fax: (519) 833-0845; Email: sales@spandreltech.com; Web: www.spandreltech.com
- B. Substitutions: Not permitted, however requests for substitutions will be considered providing substitute products and methods of execution are submitted at least 10 days prior to bid closing date. Accompany requests with evidence substantiating similarity in quality, including technical data sheet, specifications and willingness to supply product on a floor-by-floor or elevation-by-elevation basis.

2.02 BACK PAN MATERIALS

A. Back pans:

1. SpandrelTech Ltd. [20] [22] gauge galvanized steel "Galvaspan" [100 mm (4") thickness] [top hat section] [glazing adaptor section] [bird beak section] [box section] profile sized as shown on the drawings with corners caulked using Mulco 124XX0 butyl rubber one component sealing compound.

B. Back pan insulation:

1. [50 mm (2") thickness rigid fibreglass with [RSI of ____] [R Value of ____].
2. [50 mm (2") thickness mineral wool with [RSI of ____] [R Value of ____].

2.03 FABRICATION

A. Factory fabricated

B. Tolerances

1. Pan bow: maximum 0.8% of panel dimension in width and length.
2. Pan dimensions: where final dimensions cannot be established by field measurement before completion of back pan manufacturing, make allowance for field adjustments as recommended by manufacturer.
3. Pan lines, breaks and angles: sharp, true and surfaces free from warp or buckle.

C. Painted Finishes (exposed surfaces)

1. Preformed sheet with factory applied paint finish by approved applicator.
2. [____] colour [selected by [Consultant] [Architect] [Engineer] from manufacturer's standard range].

D. Back pan sealant: Mulco 124 XX0 butyl rubber architectural one component sealing compound, [Black colour] [colour as selected by [Consultant] [Architect] [Engineer]].

E. Touch-up paint: As recommended by back pan manufacturer.

F. Isolation coating: [pvc shims] [bituminous paint] [____].

G. Fasteners: [stainless steel] [____] screws.

Part 3. Execution

3.01 EXAMINATION

- ### A. Before installation examine alignment of substrate and notify [Consultant] [Architect] [Engineer] in writing if substrate does not comply with requirements of back pan installer.

3.02 INSTALLATION

A. Install back pans in accordance with shop drawings. Allow for thermal movement.

B. Separate dissimilar metals using isolation material.

C. Erect all parts of the assemblies plumb and true in proper alignment to established lines and grades.

D. Ensure complete nesting of back pans on metal framing.

E. Install insulation to requirements of Section [07 21 13]. Butt adjacent boards with joints staggered.

F. Gun-apply a continuous bead of compatible sealant to all joints and air/vapour barrier junctions with adjacent construction.

G. Butter corners of back pans after installation.

H. Caulk to provide air-tight seals at penetrations in air/vapour barriers where work of this Section penetrates substrates by other trades.

3.03 CAULKING

- A. Prime all metal surfaces and other surfaces to receive sealant as directed by the sealant manufacturer.
- B. Caulk all work of this Section with sealant in strict accordance with Section [07 92 13] and to provide a weather-tight installation.

3.04 CLEANING

- A. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.

3.05 PROTECTION

- A. Protect finished Work from damage.

END OF SECTION



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