600 Series Roof

Suggested Specifications

PART 1 - GENERAL
1.01 SUMMARY
A. Furnish Expansion Joint Systems in accordance with the drawings and general provisions of the
Contract.

1.02 WORK INCLUDED
A. Furnish complete JointMaster/InPro Corporation Expansion Joint Systems.
1. Roof expansion joint systems.
2. Exterior floor expansion joint systems.
3. Parking deck expansion joint systems.
4. Fire Rated Assemblies.

1.03 RELATED WORK
A. Related work which is specified elsewhere.
1. Cast-In-Place Concrete: Section 03300.
2. Unit Masonry: Section 04810.
3. Structural Steel: Section 05120.
4. Light gage Metal Framing: Section 05400.
5. Roof Expansion Assemblies - 07716
6. Sheet Metal Flashing and Trim: Section 07620.
7. Cement Plaster: Section 09210.
8. Gypsum Wallboard: Section 09260.

1.04 REFERENCES
A. Publications listed herein are part of this specification. See below for standards where applicable to the product listed:
1. American Society for Testing and Materials (ASTM):
a. ASTM B 221, Standard Specifications for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
b. ASTM B 209 "Standard Specifications for Aluminum and Aluminum Alloy Sheet and Plate."
c. ASTM E1399 "Cyclic Movement and Measuring of Minimum/Maximum Joint Widths of Architectural Joint Systems."

1.05 DEFINITIONS
A. Define industry and product terms as necessary.

1.06 SYSTEM DESCRIPTION
A. Joint systems shall permit limited movement of joint without disengagement.
1. Specify x-axis joint movement (horizontal).
2. Specify y-axis joint movement (vertical).
3. Specify z-axis joint movement (lateral).
B. Fire Rated Assemblies shall meet requirements of Underwriters Laboratories, in accordance with
[ANSI/U.L. No. 263 and ASTM E 119/E 814] [UL 2079] [including hose stream test at full rated period]. Underwriter's Laboratories shall classify assemblies. Fire rating shall be not less than the fire rating of adjacent construction.

1.07 QUALITY ASSURANCE
A. Manufacturer: Furnish assemblies from one (1) manufacturer with a minimum of five (5) years of experience in the design, engineering and fabrication of expansion joint systems.
B. Installer: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the manufacturer of the system.

1.08 SUBMITTALS
A. Manufacturer's specifications, technical data, installation instructions, and detail drawings for each system.
B. Certificates or other documentation confirming UL approved compliance with fire resistance rating of fire barrier assemblies.
C. Sample of specified systems where required.

1.09 DELIVERY AND STORAGE
A. Provide temporary protective covers on [anodized aluminum] [stainless steel] finished surfaces.
B. Deliver joint systems to jobsite in new, clean, unopened cartons or crates of sufficient size and strength to protect materials during transit.
C. Store components in original containers in a clean, dry location. Inspect materials upon arrival, monitor for adverse environmental impacts.

1.10 SEQUENCING
A. Submittals shall be completed and submitted within a reasonable amount of time after award of subcontract.
B. Subcontract for the work of this section shall be planned to allow sufficient time for manufacturer's production and delivery scheduling.

1.11 WARRANTY
A. Standard JointMaster/InPro Corporation limited warranty against material and manufacturing defects for a period of not less than five (5) years when installed in accordance with manufacturer's recommendations.

PART 2 – PRODUCTS
2.01 MANUFACTURER
A. JointMaster/InPro Corporation
S80 W18766 Apollo Drive
Muskego, WI 53150 USA
Phone: (800) 222-5556
Fax: (888) 715-8407
Email: service@inprocorp.com
B. Substitutions: Not permitted.

2.02 MATERIALS
A. Aluminum: ASTM B 221, alloy 6063-T6, alloy 5052-H32.
B. Stainless Steel Plates (optional): SS304.
C. Roof Bellows: EPDM bellows with closed cell foam backer and galvanized flanges. [White EPDM Bellows] [Aluminum Flanges] [Stainless Steel Flanges] [Copper Flanges] [EPDM Flanges].
D. Vapor Barrier/Backseal (optional for 672/674): 45 mils thick fabric reinforced EPDM.
Insulated Vapor Barrier (optional): Owens Corning EcoTouch Batt insulation sandwiched by an adhered and pinned 45 mil fabric reinforced EPDM.
E. Fire Barrier (optional): [925 Mineral Wool and Sealant System to UL2079] [935 Textiled Wool and Silicone Sealant System to UL2079] [950 Blanket System to UL2079 with hose stream test to walls] [F520 Blanket System to UL2079 with hose stream test to walls] or [990/995 Foam System to UL2079 with hose stream test to walls] required for indicated fire resistance rating.
F. Fasteners, accessories and other materials required for complete installation in accordance with the manufacturer's instructions.
G. Centering Bars (where required) shall be fabricated from zinc coated steel.

2.03 EXTERIOR JOINT SYSTEMS FOR ROOFS
A. JointMaster 600 Series – Aluminum frame with continuous aluminum center plate.
B. JointMaster 600 Series - Galvanized flange with EPDM bellows adhered to backer material.
C. JointMaster 600 Series – System Profiles:
1. Roof Systems – Curb Mount, Roof/Roof and Roof/Wall
a. 672-G01 or G02, 4" [102mm] metal flanged bellows system, suitable for canted curb conditions. System can be surface mounted without cants.
b. 674-G01 or G02, 4" [102mm] bent metal flanged bellows system, suitable for various curb conditions.
c. 661-A01 or A02, bent metal frame plate system, suitable for 45 degree angled curb conditions, back seal standard.
d. 691-A01 or A02, bent metal frame plate system, suitable for 90 degree angled curb conditions, back seal standard.
e. 651-A01 or A02, metal frame plate system, suitable for all flat curb conditions, back seal standard.
D. JointMaster 600 Series - System Accessories:
a. Insulated Vapor Barrier for horizontal and vertical applications (as required).
b. Drainage Fittings for horizontal and vertical applications (as required).
c. Factory Fabricated Transitions for bellows systems.
d. Factory Fabricated Transitions for metal systems.
e. Fabric Reinforced Vapor Barrier for horizontal and vertical applications (as required for bellows systems only).

2.04 FABRICATION
A. Field assemble components provided in standard lengths with pre-packaged fasteners and accessories.
B. Field or Factory Fabricate special transitions and corner fittings as required.

2.05 FINISHES
A. Aluminum:
2. Metal Roofs (651/661/691): Standard Mill finish [Color Anodized] [Kynar Painted] [Custom Color Painted] optional.
B. Galvanized Steel:
1. Bellows Roof (672/674): Standard Galvanized Steel flanges [Aluminum Flanges]
[Stainless Steel Flanges] [Copper Flanges] [EPDM Flanges] optional
C. Stainless Steel: 2B (optional for 651/661/691 only).

PART 3 - EXECUTION
3.01
A. Verify that structural gap and curb dimensions are in conformance with manufacturer's submittal data.

3.02 INSTALLATION
A. Joint systems: Install in accordance with manufacturer's instructions. Align work plumb, level and flush with adjacent surfaces. Rigidly anchor to substrate. Allowances should be made where actual structural gap at time of installation varies from nominal design gap.
B. Set centering bars @ 18 inches on center. Centering bars shall engage in the frame.
C. Fire Rated Assemblies: Where required, install to manufacturer's instructions.
D. Vapor Barrier: Where required, install to manufacturer's instructions. Provide drainage fittings where required.

3.03 PROTECTION AND CLEANING
A. Protect installation from damage by work of others.
B. At completion of the installation, clean exposed surfaces with non-solvent cleaner.
END OF SECTION

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