

Part 1 – GENERAL

1.01 Summary

- A. Furnish Fire Barrier Systems in accordance with the drawings and general provisions of the Contract.

1.02 Work Included

- A. Furnish complete Prospec Specialties Inc. Expansion Joint Systems.
 - 1. Interior floor expansion joint systems.
 - 2. Interior wall expansion joint systems.
 - 3. Interior ceiling expansion joint systems.
 - 4. Roof expansion joint systems.
 - 5. Exterior wall expansion joint systems.
 - 6. Exterior floor expansion joint systems.
 - 7. Parking deck expansion joint systems.

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 : Section 07716
 - 6. Sheet Metal Flashing & Trim : Section 7620
 - 7. Cement Plaster : Section 09210
 - 8. Gypsum Wallboard : Section 09260

1.04 References

- A. Publications listed herein are part of this specification to the extent reference. The criteria established in the specifications shall take precedence over the standards referenced herein.

Fire Rated Assemblies shall have been tested by Underwriter's Laboratories, in accordance with ANSI / U.L. NO. 263 and ASTM E 119/E 814, UL 2079, including hose stream test at full not less than the fire rating of adjacent construction.

1.05 Definitions

- A. Define industry and product terms as necessary.

1.06 System Description

- A. Fire Barrier systems shall be tested at Underwriter's Laboratories for a two-hour rating. The system shall be fully pre-cycled for 50% parallel lateral shear, expansion and contraction capacity.

1.07 Quality Assurance

- A. Manufacturer : Furnish Fire Barrier Systems from one (1) manufacturer with a minimum of five (5) years of experience in the design, engineering and fabrication of Fire Barrier 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 Fire Barrier 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. Deliver fire barrier systems to jobsite in new, clean, unopened cartons or crates of sufficient size and strength to protect materials during transit.
- B. Store components in original containers in a clean, dry location.

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 Prospec Specialties Inc. limited warranty against material and manufacturing defects for a period of not less than one (1) year when installed in accordance with manufacturer's recommendations.

Part 2 – PRODUCTS

2.01 Manufacturer

- A. Prospec Specialties Inc.
3601 Highway 7, Suite 400,
Markham ON, L3R 0M3
Canada
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of section 01600.
ZBS Series – Fire Rated Sealant + Mineral Wool System made of Compressible Mineral Fibers.
ZCS Series – Rope type Fire Barrier System made of Compressible Mineral Fibers.
ZFS Series – Fire Blanket Systems made of Non-Combustible materials.

2.02 Materials

- A. ZBS : Mineral Wool + Fire Rated Sealant
 - a. Mineral Wool – Preformed, fully flexible, non-combustible mineral fibers.
 - b. Fire Rated Sealant – Slumping and non-slumping single component water based sealant.

- B. ZCS : Preformed, fully flexible, non-combustible mineral fibers bound with glass fiber yarn, highly flexible, moisture and fungus resistant, Supplied in jumbo rolls for creating a continuous barrier against fire.
- C. ZFS : Fire Blanket System made of ceramic blanket insulation encapsulated with stainless steel flexible foil and stainless steel shear screen. Use single package system to 12" nominal joint width and double package system for wider joints.
- D. Galvanized Mounting Flanges : Galvanized flanges 20 to 28 gauge as recommended by manufacturer, supplied separately for 6" nominal joints and smaller.

2.03 Fabrication

- A. ZBS Fire Barrier Systems – Fabrication not required.
- B. ZCS Fire Barrier Systems – Fabrication not required.
- C. ZFS Fire Blanket Systems
 - Fire Blanket System may be field-cut, spliced and transitioned according to manufacturer's recommendations.
 - Galvanized Mounting Flanges may be field-cut and spliced according to manufacturer's instructions.

Part 3 – EXECUTION

3.01 Verification

- A. Verify that structural gap and block-out dimensions are in conformance with manufacturer's submittal data.

3.02 Installation

- A. Fire barrier systems : Install in accordance with manufacturer's instructions. Align work plumb, level and flush with adjacent surfaces. Allowances should be made where actual structural gap at time of installation varies from nominal design gap.

3.03 Protection and Cleaning

- A. Protect installation from damage by work of others.

END OF SECTION