



VEXCOLT (UK) LIMITED
VEXCOLT INTERNATIONAL LIMITED

Product Specification Clauses

Eurocodes - Expansion Control

FireFlex 2100-A01/A02/A07/A09 SERIES

SECTION	DETAIL
SPECIFICATION	PART 1 - GENERAL PART 2 - PRODUCTS PART 3 - EXECUTION

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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 Vexcolt Fire Barrier Systems beneath:
 - a. Interior/exterior floor expansion joint systems
 - b. Interior/exterior wall expansion joint systems
 - c. Interior ceiling expansion joint systems
 - d. Exterior roof expansion joint systems

1.03 RELATED WORK

- A. Related work which is specified elsewhere.
 - a. Eurocode 0: Basis of Structural Design
 - b. Eurocode 1: Actions on Structures
 - c. Eurocode 2: Design of Concrete Structures
 - d. Eurocode 3: Design of Steel Structures
 - e. Eurocode 4: Design of Composite Steel and Concrete Structures
 - f. Eurocode 5: Design of Timber Structures
 - g. Eurocode 6: Design of Masonry Structures
 - h. Eurocode 7: Geotechnical Design
 - i. Eurocode 8: Design of Structures for Earthquake Resistance
 - j. Eurocode 9: Design of Aluminium Structures

1.04 REFERENCES

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

Fire Rated Assemblies shall have been tested to:

- a. Underwriters Laboratories, in accordance with U.L 2079 and ASTM E 119 including hose stream test at full rated period. Underwriters Laboratories shall classify assemblies. Fire rating shall be 2 hours or not less than the fire rating of adjacent construction.

1.05 DEFINITIONS

- A. Define industry and product terms as necessary.

1.06 SYSTEM DESCRIPTION

- B. Fire barrier systems shall permit limited movement of expansion gap without disengagement.
 - a. Specify x-axis joint movement (horizontal).
 - b. Specify y-axis joint movement (vertical).

- c. Specify z-axis joint movement (lateral).

1.07 QUALITY ASSURANCE

- A. Manufacturer: Furnish assemblies from one (1) manufacturer with a minimum of five (5) years 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 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 Vexcolt International 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.

END OF SECTION

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Vexcolt International Limited
The Sidings
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Ivybridge,
Devon,
England PL21 0EZ
Tel: +44 (0)1752 894133
Fax: +44 (0)1752 691933
Email: support@vexcolt.com
Web: www.vexcolt.com
- B. Substitutions: Not permitted.

2.02 MATERIALS

- A. 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. (FireFlex 2100 Fire Blanket Systems)
- B. Galvanized Mounting Flanges: Galvanized flanges 20 to 28 gauge as recommended by manufacturer, supplied separately for 6" nominal joints and smaller. Flanges to be pre-attached to FireFlex 2100 Fire Blanket System for 8" nominal joints and larger. Flanges may be surface mount or concealed as specified. (FireFlex 2100 Fire Blanket Systems)

2.03 JOINT SYSTEMS FOR FLOORS, WALLS & CEILINGS

- A. Fire Barrier systems: FireFlex 2100 Series
 - 1. Seismic Ceramic Fire Blanket Systems

Ceramic blanket based fire barrier floor/floor: FireFlex 2100-A01

Ceramic blanket based fire barrier floor/wall: FireFlex 2100-A02

Ceramic blanket based fire barrier wall/wall & ceiling/ceiling: FireFlex 2100-A07

Ceramic blanket based fire barrier corner wall and wall/ceiling: FireFlex 2100-A09

2.04 FABRICATION

- A. FireFlex 2100 Fire Blanket System may be field-cut, spliced and transitioned according to manufacturer recommendations.
- B. FireFlex 2100 Galvanized Mounting Flanges may be field-cut and spliced according to manufacturer instructions.

END OF SECTION

PART 3 - EXECUTION

3.01 VERIFICATION

- A. Verify that structural gap and blockout 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 finish levels. Rigidly anchor to substrate. Allowances should be made where actual structural gap at time of installation varies from nominal design gap.
- B. Fire Rated Assemblies: Install to manufacturer's detailed instructions. In general:
 - a. FireFlex 2100 Series: Place fire blanket into structural gap with flanges placed on substrate or blockout. Anchor galvanized flanges to substrate. Splice joints in accordance with manufacturer's instructions.
- C. Waterproofing membrane: Where required, install to manufacturer's instructions.

3.03 PROTECTION AND CLEANING

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

END OF SECTION