



VEXCOLT (UK) LIMITED  
VEXCOLT INTERNATIONAL LIMITED

# Product Specification Clauses

Eurocodes - Movement Control

---

## MaxAtec 120-A07 & A09 SERIES

<b>SECTION</b>	<b>DETAIL</b>
<b>SPECIFICATION</b>	<b>PART 1 - GENERAL</b> <b>PART 2 - PRODUCTS</b> <b>PART 3 - EXECUTION</b>

Vexcolt (UK) Limited & Vexcolt International Limited,  
The Sidings, Redlake Trading Estate, Ivybridge, Devon PL21 0EZ  
Phone: ++44 (0) 1752 894133 Fax: ++44 (0) 1752 691933  
**Web:** [www.vexcolt.com](http://www.vexcolt.com)

## **PART 1 – GENERAL**

### **1.01 SUMMARY**

- A. Furnish Control Joint Systems in accordance with the drawings and general provisions of the Contract.

### **1.02 WORK INCLUDED**

- A. Furnish complete Vexcolt Expansion Joint Systems
  - a. Wall expansion joint systems
  - b. Fire rated assemblies

### **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.
  - a. European Norm EN ISO 9445-1: 2010: Continuously cold-rolled stainless steel. Tolerances on dimensions and form. Narrow strip and cut lengths
  - b. European Norm EN ISO 9445-2: 2010: Continuously hot-rolled stainless steel. Tolerances on dimensions and form. Wide strip and sheet/plate
  - c. European Norm EN 10088-4: 2009: Stainless steels. Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes
  - d. European Norm EN 10025-1:2004: Hot rolled products of structural steels. General technical delivery conditions
  - e. European Norm EN 10025-2:2004: Hot rolled products of structural steels. Technical delivery conditions for non-alloy structural steels
  - f. European Norm EN 10025-3:2004: Hot rolled products of structural steels. Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels

- g. European Norm EN 10025-4:2004: Hot rolled products of structural steels. Technical delivery conditions for thermo-mechanical rolled weldable fine grain structural steels
- h. European Norm EN 10025-5:2004: Hot rolled products of structural steels. Technical delivery conditions for structural steels with improved atmospheric corrosion resistance
- i. European Norm EN 1172: 2011: Copper and copper alloys. Sheet and strip for building purposes
- j. European Norm EN 1652: 1998: Copper and copper alloys. Plate, sheet, strip and circles for general purposes
- k. European Norm EN 485-1: 2008 Aluminium and aluminium alloys. Sheet, strip and plate. Technical conditions for inspection and delivery
- l. European Norm EN 485-2: 2008 Aluminium and aluminium alloys. Sheet, strip and plate. Mechanical Properties
- m. European Norm EN 485-3: 2003 Aluminium and aluminium alloys. Sheet, strip and plate. Tolerance on dimension and form for hot rolled products.
- n. European Norm EN 485-4: 1994 Aluminium and aluminium alloys. Sheet, strip and plate. Tolerance on shape and dimension for cold rolled products.
- o. European Norm EN 755-1: 2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Technical conditions for inspection and delivery.
- p. European Norm EN 755-2: 2013 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Mechanical properties.
- q. European Norm EN 755-9: 2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form
- r. British Standard BS 1155:2003: Natural rubber compounds for extrusion. Specification
- s. European Norm EN ISO 14910-1:2006: Plastics. Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion. Designation system and basis for specifications
- t. European Norm EN ISO 14910-2:2006: Plastics. Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion. Preparation of test specimens and determination of properties
- u. ASTM D2628 - 91(2011): Standard Specification for Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements

## **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.
  - a. Specify x-axis joint movement (horizontal).
  - b. Specify y-axis joint movement (vertical).
  - c. Specify z-axis joint movement (lateral).
- B. Fire Rated Assemblies shall have been tested to either:
  - a. British Standard BS 476 wherein fire rating shall be 2 hours and 4 hours or not less than the fire rating of adjacent construction.
  - b. 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.

## **1.07 QUALITY ASSURANCE**

- A. Manufacturer: Furnish assemblies from one (1) manufacturer with a minimum of five (5) year's 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. Sample of specified systems where required.

## **1.09 DELIVERY AND STORAGE**

- A. Deliver joint 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  
Redlake Trading Estate,  
Ivybridge,  
Devon,  
England PL21 0EZ  
Tel: +44 (0)1752 894133  
Fax: +44 (0)1752 691933  
Email: [support@vexcolt.com](mailto:support@vexcolt.com)  
Web: [www.vexcolt.com](http://www.vexcolt.com)
- B. Substitutions: Not permitted.

### **2.02 MATERIALS**

- A. Aluminium 6063 T5 and T6
- B. Central seal: TPR, Neoprene, EPDM: Colours to RAL 7021 [Black], RAL 7038 [Grey], RAL 1015 [Beige]
- C. Optional Waterproofing Membrane (1.14mm thick EPDM membrane epoxy bonded to the nosing both sides of the expansion gap and looped into the joint to accommodate movement).
- D. Optional Fire Barrier: [FireFlex 2000 Intumescent System to BS 476] or [FireFlex 2100 Fire blanket to UL2079] or [FireFlex 2200 to UL 2079] required for indicated fire resistance rating.
- E. Fasteners, accessories and other materials required for complete installation in accordance with the manufacturer's instructions.

### **2.03 JOINT SYSTEMS FOR WALLS**

- A. Expansion joint systems: MaxAtec 120-A07 & A09 Series – Aluminium frames joined by a central seal.
  - 1. Surface mount Wall Expansion Joint Systems
    - Surface mount expansion joint, wall/wall MaxAtec 120-A07
    - Surface mount expansion joint, corner wall MaxAtec 120-A09

### **2.04 FABRICATION**

- A. Components provided in standard lengths.
- B. Fabricate special transitions and corner fittings as required.

### **2.05 FINISHES**

- A. Aluminium: Mill finish

END OF SECTION

## **PART 3 - EXECUTION**

### **3.01 VERIFICATION**

- A. Verify usage in conformance with manufacturer's submittal data.

### **3.02 INSTALLATION**

- A. Joint systems: Install over expansion gaps in accordance with manufacturer's instructions and individual national standards. Align work plumb, level and flush with adjacent finish levels.

### **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