

**TECHNICAL  
BULLETIN**

# Compartment Wall / Roof Junctions

COMPLIANCE WITH APPROVED DOCUMENT B2



*Low Energy -  
Low Carbon Buildings*

# Compartment Wall / Roof Junctions

## 4 Steps to Compliance

This Technical Bulletin details the route to Building Regulations compliance for junctions of compartment walls with profiled metal decks.

Considering the requirements of *Approved Document B2 – Buildings other than dwellinghouses (2006 Edition), Amended 2007*, the reader is directed as follows:

### Step 1

Please refer to **Section 8 paragraph 8.28 and 8.29** (Figure 1).

### Step 2

Please refer to **Diagram 30 Junction of compartment wall with roof; a. Any Building or Compartment** (Figure 2).

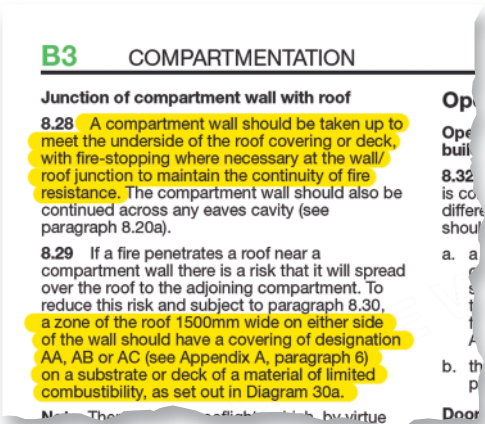


Figure 1

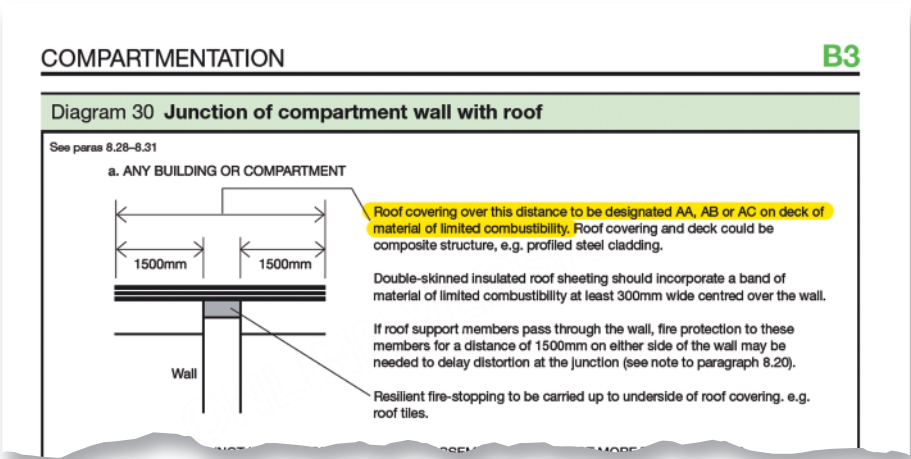


Figure 2

### Step 3

Definitions of materials of limited combustibility can be found in

#### **Table A7 Use and definitions of materials of limited combustibility**

(Figure 3). **National class a.** refers to **Any non-combustible material listed in Table A6.**

B PERFORMANCE OF MATERIALS, PRODUCTS AND STRUCTURES		
Table A7 Use and definitions of materials of limited combustibility		
References in AD B guidance to situations where such materials should be used	Definitions of materials of limited combustibility	
	National class	European class
1. stairs where there is provision in the guidance to B1 for them to be constructed of materials of limited combustibility (see 5.10)	a. Any non-combustible material listed in Table A6.	a. Any material listed in Table A6. b. Any material/product classified as Class A2-s3, d2 or better in accordance with BS EN 13501-1:2002

Figure 3

### Step 4

**National class b.** of **Table A6 Use and definitions of non-combustible materials** (Figure 4), refers to **Totally inorganic materials such as metals as being non-combustible.**

B PERFORMANCE OF MATERIALS, PRODUCTS AND STRUCTURES		
Table A6 Use and definitions of non-combustible materials		
References in AD B guidance to situations where such materials should be used	Definitions of non-combustible materials	
	National class	European class
1. refuse chutes meeting the provisions in the guidance to B3, paragraph 8.34c.	a. Any material which when tested to BS 476-11:1982 does not flame nor cause any rise in temperature on either the centre (specimen) or furnace thermocouples	a. Any material classified as class A1 in accordance with BS EN 13501-1:2002 <i>Fire classification of construction products and building elements, Part 1 – Classification using data from reaction to fire tests.</i>
2. suspended ceilings and their supports where there is provision in the guidance to B3, paragraph 9.12, for them to be constructed of non-combustible materials.	b. <b>Totally inorganic materials such as concrete, fired clay, ceramics, metals, plaster and masonry containing not more than 1% by weight or volume of organic material.</b> (Use in buildings of combustible metals such as magnesium/aluminium alloys should be assessed in each individual case).	b. Products made from one or more of the materials considered as Class A1 without the need for testing as defined in Commission Decision 2003/424/EC of 6th June 2003 amending Decision 96/603/EC establishing the list of products belonging to Classes A1
3. pipes meeting the provisions in the guidance to B3, Table 14.		
4. flue walls meeting the provisions in the guidance to B3, Diagram 39.		

Figure 4

Approved Document B2 has no requirement for the insulation material installed over a profiled metal deck at a compartment wall / roof junction.

Based on this route to compliance, Kingspan Insulation Limited can confirm that **Kingspan Thermaroof™ TR26 LPC/FM**, **Kingspan Thermaroof™ TR27 LPC/FM**, **Kingspan Thermataper® TT46 LPC/FM** and **Kingspan Thermataper® TT47 LPC/FM** can be used in this situation and such a construction will satisfy the requirements of Approved Document B2, assuming the waterproofing is designated AA, AB or AC, the deck is metal and fire stopping is installed between the top of the compartment wall and the underside of the metal deck.

**Kingspan Thermaroof™ TR26 LPC/FM**, **Kingspan Thermaroof™ TR27 LPC/FM**, **Kingspan Thermataper® TT46 LPC/FM** and **Kingspan Thermataper® TT47 LPC/FM** are designated as **Thermoset** materials and **not Thermoplastic**.



For detailed information on the specific construction details related to LPCB or FM Approvals and other installation advice please contact the Kingspan Insulation Technical Services Department (see rear cover).

# Contact Details

## Customer Service

For quotations, order placement and details of despatches please contact the Kingspan Insulation Customer Service Department on the numbers below:

UK – Tel: +44 (0) 870 850 8555  
– Fax: +44 (0) 870 850 8666  
– email: commercial.uk@insulation.kingspan.com

## Literature & Samples

Kingspan Insulation produces a comprehensive range of technical literature for specifiers, contractors, stockists and end users. The literature contains clear 'user friendly' advice on typical design; design considerations; thermal properties; sitework and product data.

Available as a complete Design Manual or as individual product brochures, Kingspan Insulation technical literature is an essential specification tool. For copies please contact the Kingspan Insulation Marketing Department on the numbers below:

UK – Tel: +44 (0) 870 733 8333  
– Fax: +44 (0) 1544 387 299  
– email: literature.uk@insulation.kingspan.com

## Tapered Roofing

For technical guidance, quotations, order placement and details of despatches please contact the Kingspan Insulation Tapered Roofing Department on the numbers below:

UK – Tel: +44 (0) 870 761 7770  
– Fax: +44 (0) 1544 387 289  
– email: tapered.uk@insulation.kingspan.com

## Technical Advice / Design

Kingspan Insulation supports all of its products with a comprehensive Technical Advisory Service for specifiers, stockists and contractors.

This includes a computer-aided service designed to give fast, accurate technical advice. Simply phone the Kingspan Insulation Technical Service Department with your project specification. Calculations can be carried out to provide U-values, condensation / dew point risk, required insulation thicknesses etc... Thereafter any number of permutations can be provided to help you achieve your desired targets.

The Kingspan Insulation Technical Service Department can also give general application advice and advice on design detailing and fixing etc... Site surveys are also undertaken as appropriate.

Please contact the Kingspan Insulation Technical Service Department on the numbers below:

UK – Tel: +44 (0) 870 850 8333  
– Fax: +44 (0) 1544 387 278  
– email: techline.uk@insulation.kingspan.com

## General Enquiries

For all other enquiries contact Kingspan Insulation on the numbers below:

UK – Tel: +44 (0) 870 850 8555  
– Fax: +44 (0) 870 850 8666  
– email: info.uk@insulation.kingspan.com

*Kingspan Insulation Ltd. reserves the right to amend product specifications without prior notice. Product thicknesses shown in this document should not be taken as being available ex-stock and reference should be made to the current Kingspan Insulation price-list or advice sought from Kingspan Insulation's Customer Service Department (see above left). The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service (see above) the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of the literature is current by contacting the Kingspan Insulation Marketing Department (see left).*



Kingspan Insulation is a member of the single-ply roofing association (SPRA)



**Kingspan Insulation Ltd**

Pembridge, Leominster, Herefordshire HR6 9LA, UK  
Tel: +44 (0) 870 850 8555 Fax: +44 (0) 870 850 8666  
email: info.uk@insulation.kingspan.com

[www.insulation.kingspan.com](http://www.insulation.kingspan.com)