

# Design guide to separating distances during construction

## Fire during construction tested products

### List of products for timber frame construction

Version 5.1 | October 2019 | Authored by Martin Milner

Products listed below have been tested and submitted to the STA product review board. Users of this product listing should be familiar with the STA Separating Distance Guidance Parts 1, 2a, 3 and 4.

## FR Build (in accordance with Product Paper 1)

### Floor joists, rims and blocking

PRODUCT	I-JOIST	OPEN WEB	SAWN TIMBER
IWS FR+	3	3	3
Osmose Frameguard	3	3	3
Wolmanit Firestop TF	3	3	3

### Decking - 15mm minimum (unless noted)

PRODUCT	PLYWOOD	OSB	CHIPBOARD
IWS FaIWS FR+R+	3	3	X
Osmose Frameguard	3	3	X
IWS FAST Chipboard	X	X	3
Wolmanit Firestop TF	3	X	X
Norbord No Burn® OSB/3	X	3	X
SmartPly FR build OSB/3	X	3	X
UNILIN HydroFlam 18mm	X	X	3

## Timber framing

PRODUCT	SOFTWOOD MIN C16	I-JOIST
IWS FR+	3	3
Osmose Frameguard	3	3
Wolmanit Firestop TF	3	X

## Sheathing - 9mm minimum (unless noted)

PRODUCT	PLYWOOD	CHIPBOARD
IWS FR+	3	X
Osmose Frameguard	3	X
Wolmanit Firestop TF	3	X
UNILIN HydroFlam 12mm board	X	3

## FI Build (in accordance with Product Paper 2)

### FI Build - Insulation Materials

MANUFACTURER / PRODUCT	APPLICATION	FI BUILD PERFORMANCE LEVEL
Kingspan Therma TW55	As an insulation installed between FR Build studs	Type 2
Kingspan Kooltherm K12	As an insulation installed between FR Build studs	Type 2
Glass Wool (MIMA)	As an insulation installed between FR Build studs	Type 2
Stone Wool (MIMA)	As an insulation installed between FR Build studs	Type 2

**NOTE:** MIMA is the Mineral Wool Manufacturers Association and represents: Knauf Insulation Ltd, Rockwool Ltd, Saint-Gobain Isover UK, Superglass Insulation Ltd and URSA UK Ltd. Products manufactured by companies that are not members of MIMA are not accepted for use by the STA until they appear on this list.

---

# FR Build Membrane (in accordance with Technical Papers 2 and 3)

## FR Build - External Membranes

MANUFACTURER / PRODUCT	APPLICATION
Proctor Fireshield®	For the external face of a wall, facing the cavity

## Proprietary wall systems reviewed for Category C

Refer to Product Paper 4 for details

### **EBS elk**

Pre insulated and pre clad wall panels to Product Paper 4.

### **INNOVARE**

Structural Insulated Panel (SIP) with pre fitted over clad lining to Product Paper 4.

### **KINGSPAN TEK**

Structural Insulated Panel (SIP) with pre fitted over clad lining to Product Paper 4.

### **STEWART MILNE**

Sigma insulated frame to Product Paper 4.

### **VAL-U-THERM**

Pre insulated and pre clad wall panels to Product Paper 4.

## Proprietary frame systems

Refer to Product Paper 4 for details

### **FERMACELL**

Category B3 open timber frame.

### **NORBORD**

Category C pre-insulated frame with Rockwool .

### **SmartPly**

Category B3 pre-insulated frame with Stonewool.

### **Structural Timber Association members frame**

Category B3 closed panel pre-insulated frame.

### **UNILIN HydroFlam**

Category B3 open panel timber frame.

---

# Proprietary structural solid timber wall, floor and roof systems

Tested for fire robustness - see Part 4 of the STA Design guide to separating distances

## **KLH**

Cross Laminated Timber (CLT) panels

## **Binderholz**

Cross Laminated Timber (CLT) panels

## FC Build

In accordance with Product Paper 3

Sheathing Materials Sheathing boards that meet the requirements of Class A1 and Class A2 following classification to EN 13501-1: 2002: Fire Classification of Construction Products and Building Elements: Part 1: Classification using test data from reaction to fire tests, can be used in all Category's - A, B and C without further testing.