

General Installation

Where the National Construction Code specifies the need for a fire separation system, the level of fire separation needs to be determined according to the type of structure and the uses of materials on either one side of the wall, floor or ceiling structure or on both sided. These systems are called SYMMETRICAL or ASYMMETRICAL, be sure to clarify this. The level of fire separation is expressed by three numbers.

For example, 60/60/60 represents:

- The first number indicates that for 60 minutes the wall must continue to carry the design loads. A dash here indicates a non-loadbearing wall.
- The second 60 minutes is the time before the wall's integrity is affected to allow the penetration of hot gasses or flames.
- The third 60 minutes indicates an insulation failure for allowing too much heat to pass through the wall.

Refer to the NCC / IBC / IRC / BBA to determine the construction codes fire and acoustic levels required for each application.

ResCom[®] wall, ceiling and floor products are suitable for the following applications:

Thickness	SYMMETRICAL	ASYMMETRICAL	INSULATION
9mm	Loadbearing wall 60/60/60 Non-loadbearing wall -/60/60	Loadbearing wall 60/60/60 Non-loadbearing wall -/60/60	Refer Technical Support
10mm	Loadbearing wall 60/60/60 Non-loadbearing wall -/60/60	Loadbearing wall 90/90/90 Non-loadbearing wall -/90/90	Refer Technical Support
12mm	Loadbearing wall 90/90/90 Non-loadbearing wall -/90/90	Loadbearing wall 120/120/120 Non-loadbearing wall -/120/120	Refer Technical Support
16mm	Loadbearing wall 120/120/120 Non-loadbearing wall -/120/120	Loadbearing wall 180/180/180 Non-loadbearing wall -/180/180	Refer Technical Support
18mm	Loadbearing wall 150/150/150 Non-loadbearing wall -/150/150	Loadbearing wall 180/180/180 Non-loadbearing wall -/180/180	Refer Technical Support
20mm	Loadbearing Floor 120/120/120 Non-loadbearing wall -/120/120	Loadbearing Floor 120/120/120 Non-loadbearing wall -/120/120	Refer Technical

When constructing fire separation systems, it is important to take notice of the three (3) performance factors that the system must deliver.

1: Frame Integrity 2: Lining Integrity 3: Thermal / Insulation Integrity

NOTE: Most systems are incorrectly specified during design and this could lead to catastrophic failures. Always confirm the need for cavity insulation and the use of suitable FR caulking compounds.

The responsibility for complaint installation of a system stands with the installer.

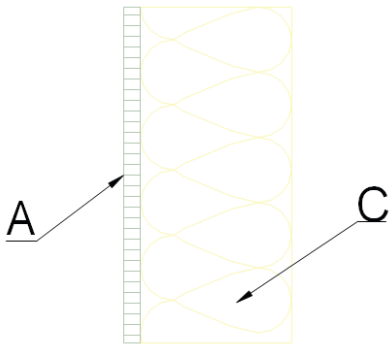
Product Name

Fireban One
Selley's
Firesound, Fula Foam (Fire Resistant)
Fire Mate Sealant

Manufacturer

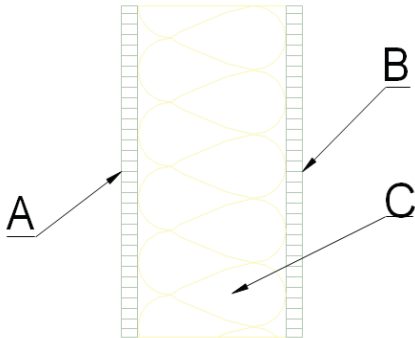
Bostik
Fireblock
HB Fuller
Everbuild
Grinnel
Lorient





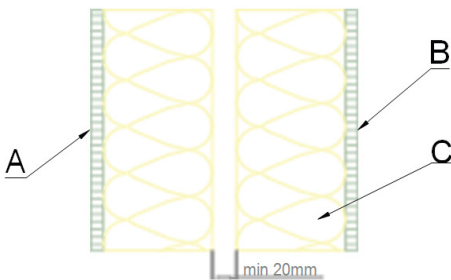
Single Stud (Timber & Steel)

A -	9mm ResCom	or	12mm ResCom
C -		R2:BS	
FRL	-/60/60		-/90/90
Rw + Ctr	53		54
Required FRL	-/90/90 RISF 90 min. and Rw + Ctr 50 or better		



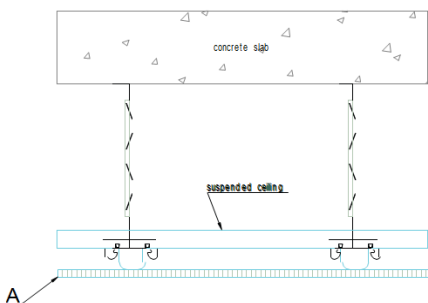
Single Stud Each Side (Timber & Steel)

A -	10mm ResCom	or	12mm ResCom
B -	10mm ResCom	or	12mm ResCom
C -		R2:BS	
FRL	-/90/90		-/120/120
Rw + Ctr	50		47+crt
Required FRL	-/90/90 RISF 90 min. and Rw + Ctr 50 or better		



Double Stud Double Side (Timber & Steel)

A -	12mm ResCom	or	16mm ResCom
B -	12mm ResCom	or	16mm ResCom
C -		R2:BS	
FRL	-/120/120		-/180/180
Rw + Ctr	50		60+crt
Required FRL	-/90/90 RISF 90 min. and Rw + Ctr 50 or better		



Suspended Ceiling from Concrete Slab (Steel)

A -	10mm ResCom	or	12mm ResCom
FRL	-/60/60		-/90/90
Required FRL	-/60/60 RISF 60min	or	-/90/90 RISF 90min
	Back Block to Joints		Back Block to Joints