

Fastener Application Guide

Best practice fastener / washer combinations for KEMWELL FIRE specialist passive fire protection building products and systems.



Perimeter and Centre Fixing Definition



Perimeter Fixing

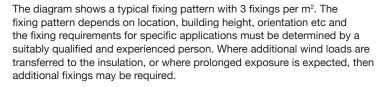
Refers to the perimeter fixing of the main WeatherKem board. When perimeter fixing use the recommended combination of EJOT plastic washer with the correct fastener shown in the following tables.



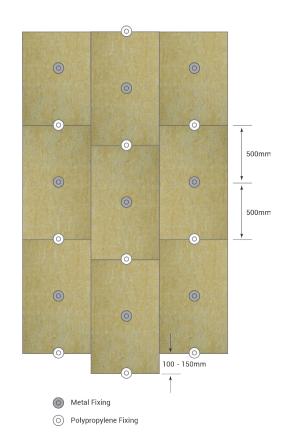
Centre Fixing

Refers to the centre fixing of the WeatherKem board, for fire protection purposes.

For centre fixing use the recommended combination of EJOT stainless steel washer with the correct stainless steel fastener shown in the following tables.

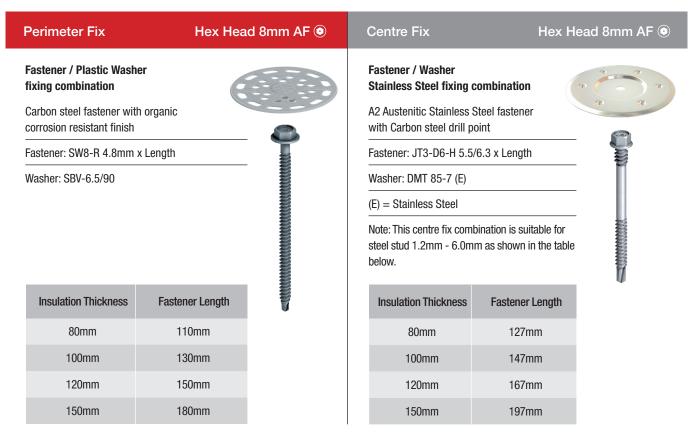


Kemwell recommend WeatherKem calcium silicate fibre cement board as the sheathing board behind our insulation. In these cases the fasteners can be applied into the board and into the steel framing behind. In cases where WeatherKem is not the sheathing board, it may be necessary for all fasteners to go directly into the steel framing stud members. In these cases, please consult with the board manufacturer for fixing instructions.

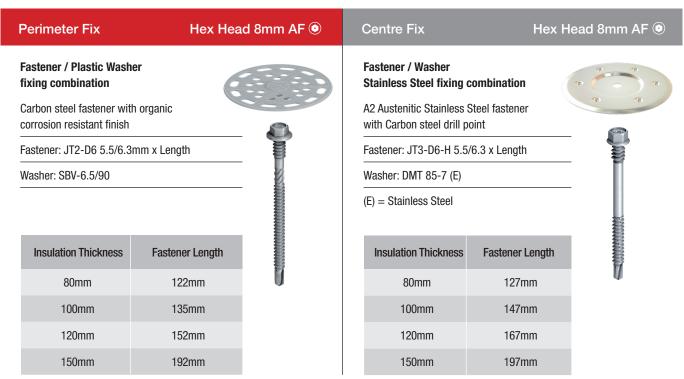




Fixing specifications - Insulation via WeatherKem board: Back to Steel Stud 1.2mm - 1.5mm



Fixing specifications - Insulation via WeatherKem board: Back to Steel Stud 1.6mm - 6.0mm





Fixing specifications - WeatherKem board: Back to Timber



One Fastener fixed length TKR 4.8 x 60

Case-hardened carbon steel with Climadur organic coating

Fastener: TKR 4.8 x 60

Meets minimum embedment into timber <40mm





Fixing specifications - WeatherKem board: Back to Steel Frame System (SFS)



One Fastener fixed length TBF 4.8 x 45

Carbon steel wing tipped self-drilling fastener

Fastener: TBF 4.8 x 45

Drilling capacity: 0.7mm - 3.0mm





Fixing specifications - Insulation: Back to Concrete



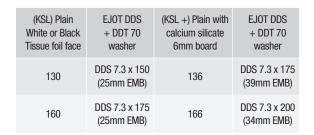
Fastener / Washer Stainless Steel fixing combination

Zinc plated, hardened carbon steel anchor with integral 25mm plastic washer face

Fastener: DDS 7.3

Washer: DDT 70







EMB = Embedment depth into substrate

NOTE: As there may be significant embedment depths required, a test should be conducted to avoid the fastener thread being compromised on any rebar within the concrete.

