

FIRETEX® Technical Bulletin

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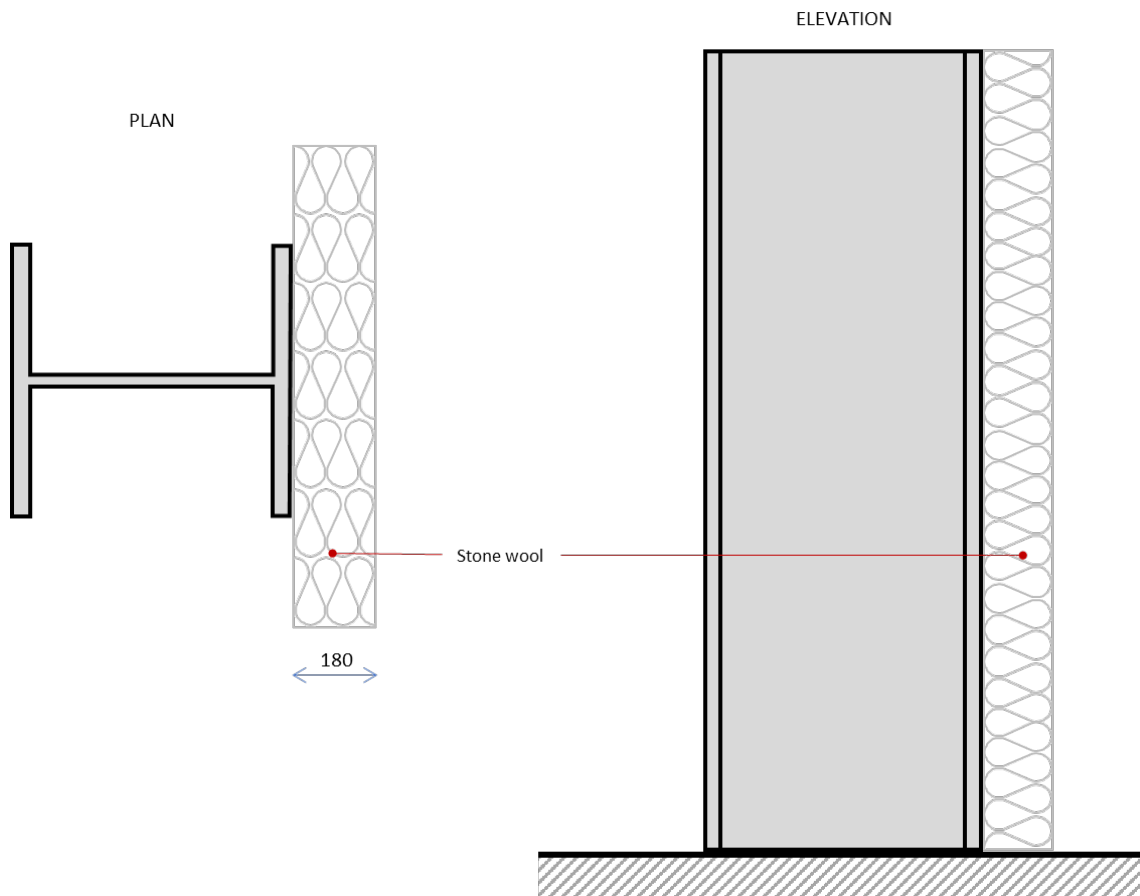
Mineral Wool in Contact or Close Proximity to FIRETEX® Protected Steelwork

For various reasons such as acoustic or thermal insulation it is relatively common that mineral wool will be placed close proximity or in contact with structural elements which are protected with FIRETEX intumescent coatings. Sherwin-Williams has undertaken various tests to evaluate the impact of such scenarios, as discussed below.

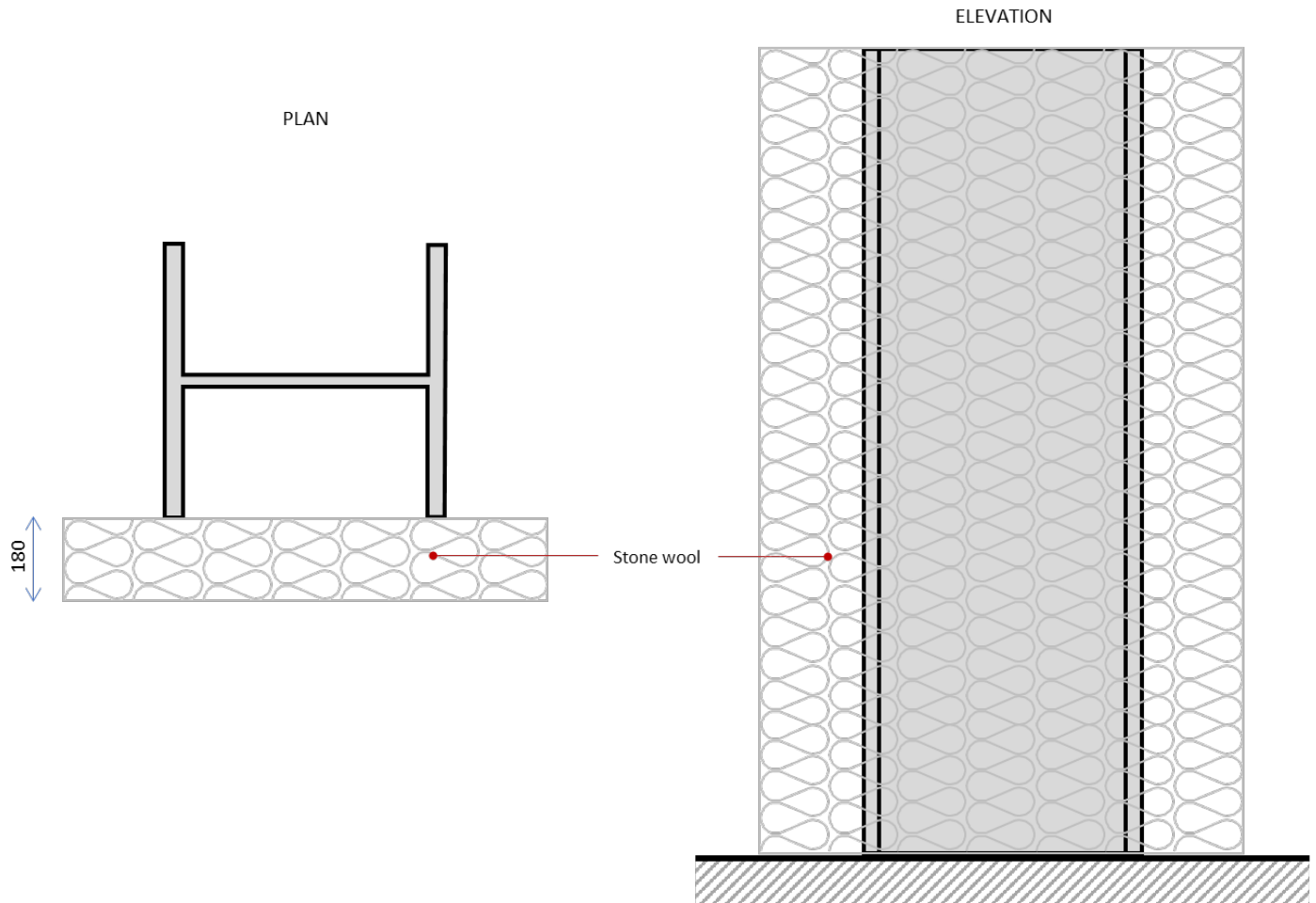
FIRETEX Technical Bulletin FTB 001 discusses a scenario where mineral wool was placed within the expansion zone of the FIRETEX intumescent coating, no reduction in the fire resistance period of the beam in this case was observed.

Further testing evaluated mineral wool in contact with the flange tips or flange face of columns. Again, the outcome was that no reduction in the fire resistance period of the column was observed.

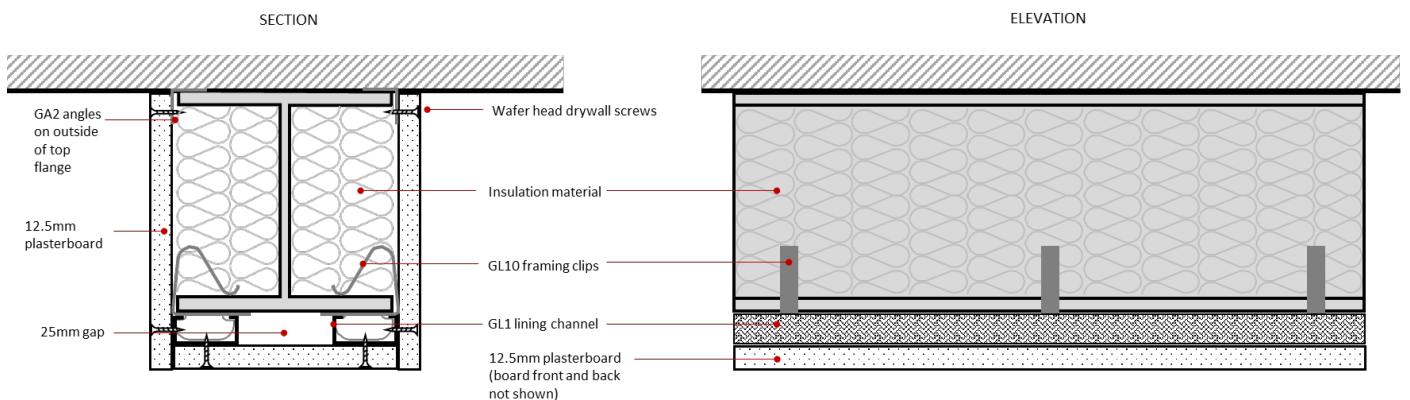
Mineral Wool in Contact with the Flange Face of an I or H Shaped Column



Mineral Wool in Contact with the Flange Tips of an I or H Shaped Column



Mineral Wool in Contact with the Webs of an I or H Shaped Beam (Beam also encased in non-fire rated plasterboard)



In each case the mineral wool tested was non-combustible (EN13501-1; A1) and had a minimum density of 40kg/m³ and in each scenario the time for the test piece to reach the critical temperature (500°C for the columns and 576°C for the beam) was greater than for the respective control sample.

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The results obtained during the testing were evaluated by a Chartered Engineer and Fellow of the Institution of Fire Engineers, whose report can be made available to project engineers, if required, by contacting Sherwin-Williams.

The information herein is subject to revision as a result of additional information or test evidence becoming available, please consult Sherwin-Williams to ensure you have the latest version.

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