Technical Bulletin No.16

Structural Timber Protection with PROMATECT®250

Structural Timber Members have some resistance to fire when suitably sized. When exposed to fire, most softwoods char at about 0.66mm/minute and most hardwoods about 0.5mm/minute. The fire performance of a timber structural element will depend on the length of exposure to fire and whether the residual timber left is of sufficient size to carry the required load.

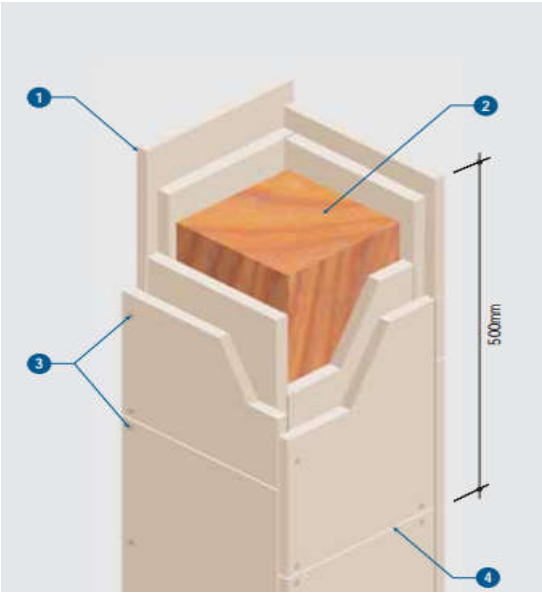
If the calculated residual timber is inadequate, Promat can offer a solution to encase the timber with our PROMATECT® 250 board.

Technical data:

Two layers of 15mm PROMATECT® 250 will achieved an FRL of 120/-/- for any structural timber member that is sufficiently sized to carry its load in ambient conditions

When the PROMATECT® 250 board is providing the cladding, the boards are edge fixed to each other. Fixings should penetrate the substrate board a minimum of 25mm.

Steel wire staple fixings 28mm long x 10 crown width x 1mm at nominal 100mm centres and positioned a minimum 20mm from the edges or corner of the timber.



The end staples are to be located by 40mm from the corner of the boards.

All joints are to be staggered by at least 500mm centres.

For the second layer the boards are to be secured in the same manner as the first with joints staggered at 500mm centre and staples at 100mm centres.

Figure 1: Double layer protection

1. PROMATECT® 250 boards
2. Timber column
3. Steel wire staples
4. Horizontal Joints

Please contact Promat Australia for further information. 1800 PROMAT (776 628) or PAPL.Mail@etexgroup.com
www.promat.com

PLEASE REFER TO ASSESSMENT REPORT FOR FULL INSTALLATION DETAILS

Promat provides a wide range of systems for fire resistant ceilings and floors, air and cable ducts, structural steel protection, fire stopping and partitions.

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