

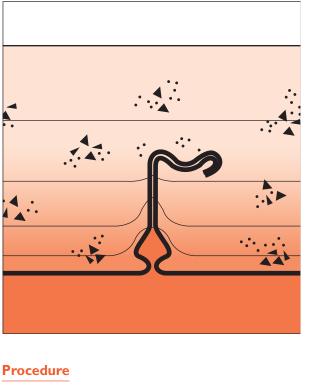
STRAMIT CONDECK HP® COMPOSITE SLAB FIRE DESIGN

Supplement to Stramit Condeck HP® Structural Steel Deck - Technical Design Manual

- ✓ Cost savings in fire-rated slab design
- Optimised composite slab reinforcement using moment re-distribution
- Utilises the top flanges of Stramit Condeck HP[®] deck's unique enclosed rib
- ✓ Calibrated for Fire Resistance Periods of up to 2 hours
- Stramit Condeck HP[®] design procedure independently verified by BRANZ and CSIRO
- Accuracy confirmed by full-scale and pilot fire tests

Reduction in FER mesh used in fire design ${\sf A}_{ m st}^{\ m}$ (mm²/m)				
	Stramit Condeck HP [™] metal deck			
slab fire	FRP	thickness (mm)		
design method	(mins)	0.75	0.90	1.00
to Australian Standards	60	273	320	351
	90	230	268	292
	120	209	242	262

Note: The limiting tensile strain in the top flanges is assumed to be 1.5%.



- Carry out regular slab design for fire using pages 39 to 42 of the Stramit Condeck HP[®] Structural Steel Deck - Technical Design Manual (Issue Apr 09).
- Reduce positive FER (Fire Emergency Reinforcement) steel by the amount shown in the table. Note that standard shrinkage and temperature mesh may still be required. This is generally placed directly on to the ribs for thin slabs, but must be near the top face for thicker slabs.

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