Two way FRR — steel frame

Specification number	Performance		Specifications	
GBS 60	**FRR**	–/60/60	**Lining**	1 layer 13mm GIB Fyreline® each side
	STC	37	**LB/NLB**	Non load bearing
	Rw	37		

FRAMING AND WALL HEIGHT

Minimum steel stud dimensions to be 64 x 34 x 0.50mm nominal with a 6mm return.

Minimum steel channel dimensions to be 64 x 30 x 0.50mm nominal.

Top and bottom channels are fixed to the floor and ceiling in true alignment.

Stud spacing at 600mm centres maximum.

Place studs to allow the nominated expansion gap at the top of the frame.

The studs are held in place by the "grip" of the channels.

Recommended maximum wall height
Note that maximum wall heights for fire rated systems can be lower than what can be achieved with non-fire rated construction.

Nominal stud dimension (mm)	BMT (mm)	Stud centres (mm)	Max wall height (mm)	Expansion at top of studs (mm)
64 x 34	0.50	600	3000	15
		400	3200	15
76 x 34	0.55	600	3200	15
		400	3800	20*
	0.75	600	3600	20*
		400	4200	20*
92 x 34	0.75	600	4200	20*
		400	4800	25*

**Use a minimum 50mm-deep head channel.*

LINING

1 layer of 13mm GIB Fyreline® each side of the frame.

Vertical fixing only permitted. Full height sheets shall be used where possible.

When sheet end butt joints are unavoidable, they shall be formed over nogs and staggered.

Offset joints between sheets on opposite sides of the frame.

Sheets shall be touch fitted.

All sheet joints must be formed over framing.

Linings are installed hard to floor.

FASTENING THE LINING

Fasteners
25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres
300mm centres up each stud.

Place fasteners 12mm from longitudinal sheet edges and 50mm from sheet ends.

Place fasteners at 200mm centres along sheet end butt joints.

Fastening the linings at 18mm from sheet ends to top and bottom channels is permitted as long as the fasteners do not connect the studs and channels. Do not fix linings to the top track when floor deflection has to be accommodated.

SERVICES

Holes may be drilled or pre-punched in the metal studs to allow installation of electrical service lines and plumbing supply pipes.

JOINTING

All screw heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled "GIB® Site Guide".