

E2XC90

Suspended Rondo Express® Grid Ceiling System

Load Bearing

2 Layers: 2 Layers of Plasterboard to underside side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC	
E2XC90	-FM29	90/90/90	LB	48	47	43	1 x 16mm Elephant FireSmart and 1 x 13mm Elephant MultiSmart

Floor Framing

Timber floor joists shall comply with NZS3604 and spaced at no more than 600mm centres. Solid strutting is required in accordance with NZS 3604.

Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Nogs fixed on the flat to receive the ends of flooring material shall be 90mm x 45mm minimum.

Flooring

Flooring shall be 20mm thick particle board or 17mm thick structural ply, fixed to the joists as per manufacturer's instructions.

Flooring sheet joints must either be formed over framing or have a polypropylene tongue and groove jointer.

Minimum Cavity Depth

The system requires a minimum of 450mm cavity depth between the ceiling linings and the underside of the flooring.

Suspension System

Rondo Express® Drywall Grid ceiling system comprising 2.5mm wire hangers or Rondo XD50 wall angles at 1200mm centres maximum, supporting Rondo XD1 main tee spaced at a maximum of 1200mm centres and Rondo XD2-1200 cross tee installed at 600mm centres. Install Rondo XD2-600 cross tees at 1200mm centres, parallel to the main tee.

Rondo Express® Drywall Grid ceiling system to be installed as per manufacturer's specification.

Plasterboard Lining

One layer of 16mm Elephant FireSmart and One layer of 13mm Elephant MultiSmart fixed at right angles to the furring channels.

The inner layer to be fixed parallel to the main tees with taper edges located on main tees.

The outer layer to be fixed parallel to the main tees and offset by 600mm from those of the inner layer in both direction.

All sheet butt joints must occur on the cross tees.

They shall be adhered with a cove or cornice bond adhesive.

Sheet joints shall be touch fitted.

Fixing the Lining

Fasteners

System Number	1 st Layer	2 nd Layer
		Self-Tapping Drywall Screws
E2XC90-FM29	16mm	13mm
	32 x 6g	41 x 6g

Fastening Centres

Ceiling sheets shall be fixed at 150mm centres around each sheet perimeter and 200mm centres to intermediate framing.

Place fasteners no closer than 12mm from sheet edges.

Place fasteners no closer than 18mm from sheet ends. However this can be reduced to 12mm if sheet ends occur on cross tees.

Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners, taped and filled in accordance with Elephant Plasterboard Installation Guide.

Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled Elephant Plasterboard Installation Guide.

