



RONDO

WALK-ABOUT

Trafficable
Ceiling System



100% AUSTRALIAN OWNED
& MANUFACTURED



DESIGN CONSIDERATIONS

GENERAL INFORMATION

The Rondo Walk–About Ceiling Grid System was designed after receiving many requests for a system which would allow maintenance people to enter into the area above the suspended ceiling, and move around in the plenum area to service various mechanical and electrical points.

The Walk–About System comprises of primary rails running at 90° to each other, manufactured from Rondo patented design boxed 64 mm studs. These are supported by 'U' brackets and 8 mm threaded suspension rods. The primary rails are spaced at 1200mm centres in each direction and joined together by a special designed bracket using self drilling screws.

The Rondo furring channel is then spaced to suit the building board manufacturer's recommendations. A Rondo direct fixing hanger is used to connect the furring channel to the primary rail. Steel or wooded walking planks are then fixed (in accordance with the Fixed Platforms, Walkways, Stairs and Ladders – Design, Construction and Installation Code AS 1657–1992) to the top side of the primary rail, giving access to those services that require maintenance.

The Rondo Walk–About ceiling grid system is a versatile system, with ease of assembly being a major contributor to its cost effectiveness.

The system as described above was designed to take a 1.1 kN point load, with a deflection limit of 1/360. The calculations were based on the requirements of the Building Code of Australia, and the Cold Formed Steel Structures Code AS 1538–1988.

AS 1170.4 SEISMIC COMPLIANCE

All ceilings must be designed in accordance with the requirements of AS/NZ2785–2000. As part of this design process, seismic compliance to AS 1170.4 is required. Seismic design is quite complex and cannot be undertaken without explicit knowledge of the ceiling grid system and seismic design parameters. Australia has predominantly low level seismic activity in the more populated regions and it is not uncommon for the seismic requirements to be minimal, however please contact your engineer or Rondo's Technical Service Department to check compliance of your grid with AS 1170.4.

STORAGE & HANDLING

Rondo Walk–About ceiling grid components come in convenient stock-pack and sub-pack quantities for ease of handling and storage.

Rondo Walk–About ceiling grid components should be handled with care and stored in a dry, protected area away from airborne contaminants such as overspray from brick cleaning processes.

This instruction applies to all products whether designed for internal or external use.

STANDARDS

Rondo Building Services Pty Ltd
St Marys has been quality assured
by Lloyd's to AS NZS ISO9002.



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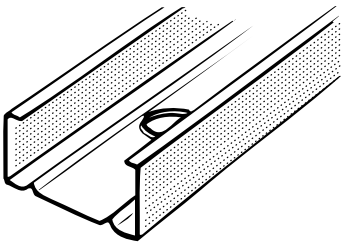
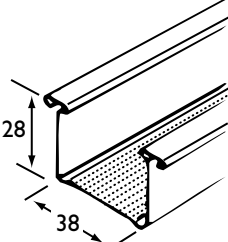
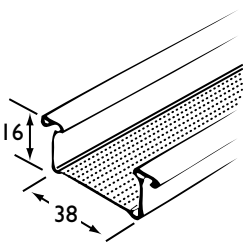
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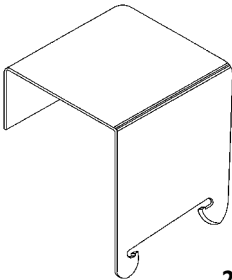
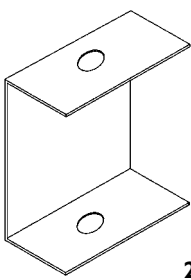
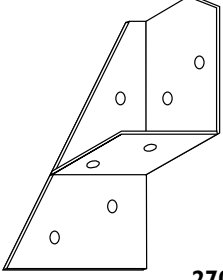
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RONDO WALK-ABOUT COMPONENTS

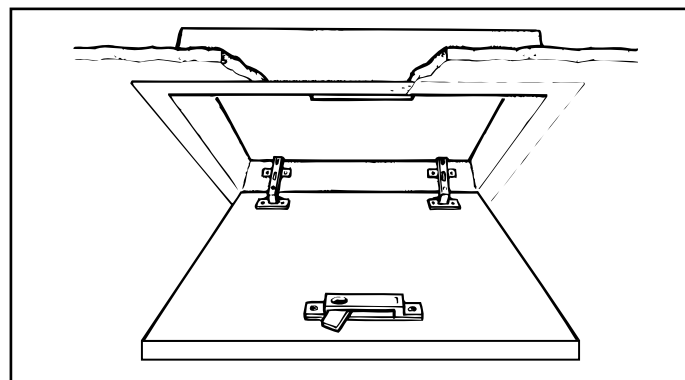
PRIMARY SECTIONS & FURRING CHANNELS

DESCRIPTION	PART NO			
64mm Stud Section	112			
		112	129	308

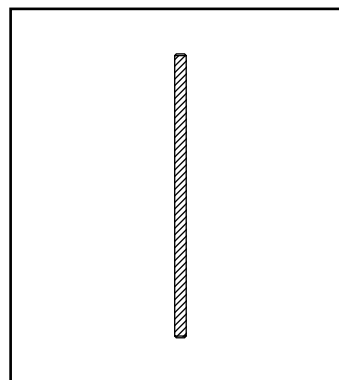
HANGERS & JOINERS

DESCRIPTION	PART NO			
Direct Fixing Hanger	224			
'U' Hanger	271		271	
Joiner 112 to 112	270			270

ACCESS HATCH



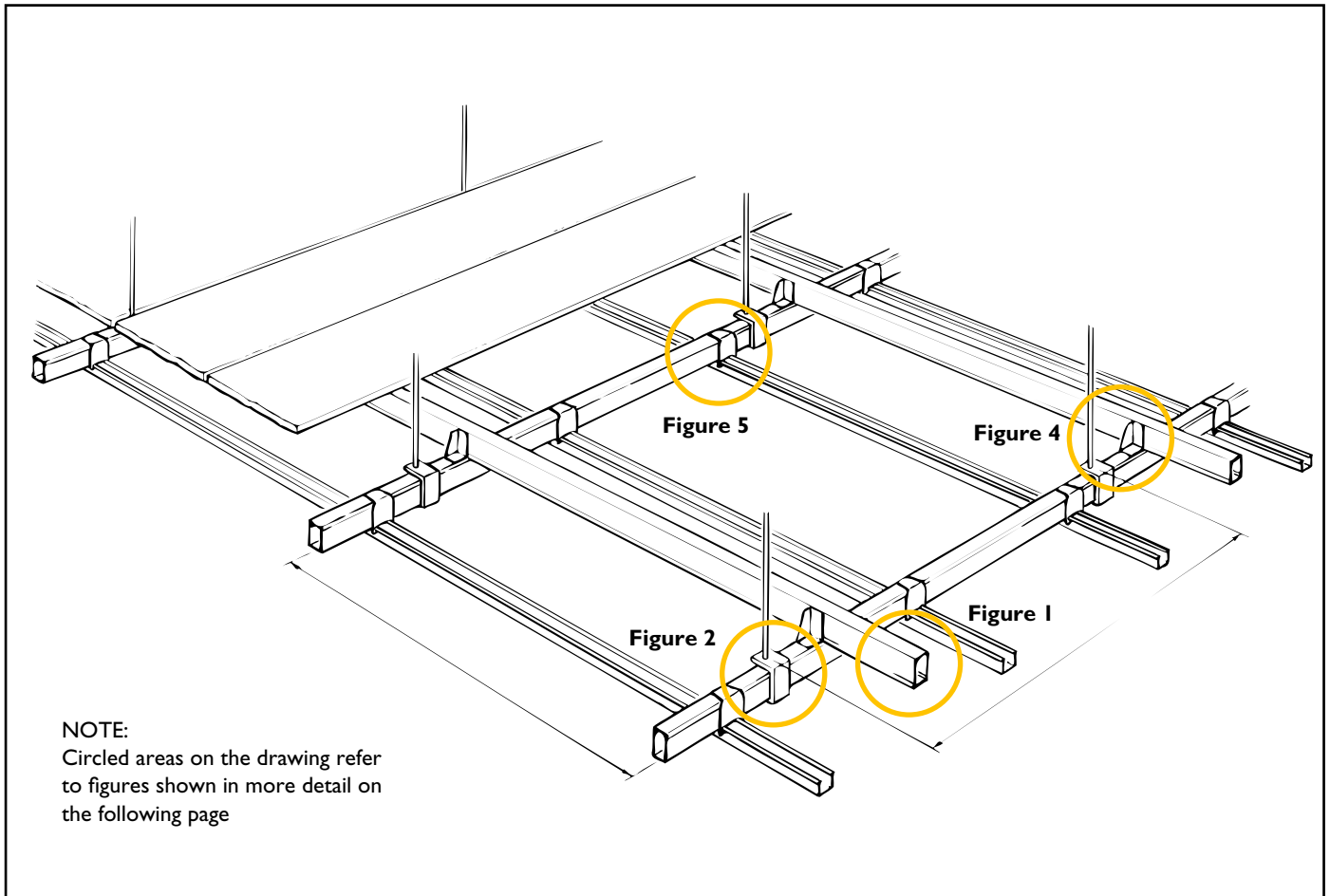
8MM THREADED ROD



CONCEALED SECURITY ACCESS HATCHES

Simple to install and economical to purchase, the range of Rondo hatches includes fire-rated and non-standard openings. All come complete with a removable hatch panel and spare key, and the perforated trim on all sides makes setting easy.

TYPICAL APPLICATION DETAILS



INSTALLATION DETAILS

STEP ONE

When looking at the end profile of the Steel Stud Section (P/N 112), it can be seen that one leg is approx. 2mm longer than the other. When boxing two studs together, it is necessary to position the two studs so that the shorter of the two legs fits inside the longer leg of the other stud. Once this has been done, the two studs should be squeezed together starting at one end and working along the length of the stud. The studs should now have been formed into a box section. (Refer Figure 1.)

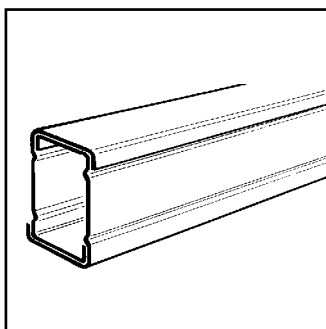


FIGURE 1: Boxed studs

STEP TWO

Position 8mm diameter threaded suspension rods in straight rows at 1200mm spacing and 1200mm apart with one M8 nut approx. 90mm on the thread section.

STEP THREE

Lift sections of the boxed studs up to the suspension rods to form the first primary ceiling and attach the studs to the rods using P/N 271 'U' Bracket and another M8 nut under the bracket. (Refer Figure 2.)

STEP FOUR

Splice the studs end-to-end using short pieces of track and screwing into each section through the top and bottom flange. (Refer Figure 3.)

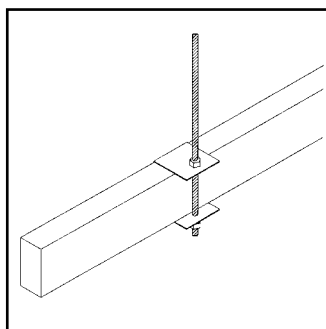


FIGURE 2: Attaching studs to the rod

STEP FIVE

When the full primary assembly has been installed, it will be necessary to ensure the stud sections are level in both directions by using either a laser or string line.

STEP SIX

The secondary primary system should now be installed at 90° to the first primary using the same boxed stud sections and spaced 1200mm apart on top of the first primary system. Both primary systems are attached to each other by using the Angle Bracket (P/N 270). Two screws should be screwed through the Angle Bracket into each stud section. (Refer Figure 4.)

STEP SEVEN

Furring channels can now be attached to the underside of the first primary system using P/N 224. (Refer Figure 5.)

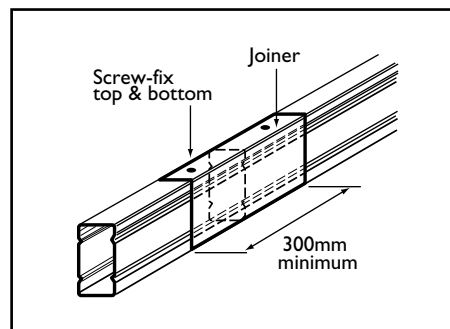


FIGURE 3: Splicing studs

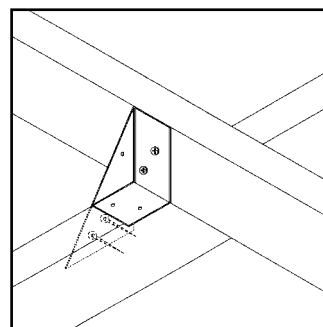


FIGURE 4: Installation of the secondary primary system

STEP EIGHT

Boards can be fixed to top primary rails and positioned to coincide with access hatches and mechanical service regulators.

After final levelling, the building board can now be fixed to the furring channels as recommended by the building board manufacturer.

Access hatches should be installed at convenient locations for easy access into the plenum areas of the ceiling next to designated walkways.

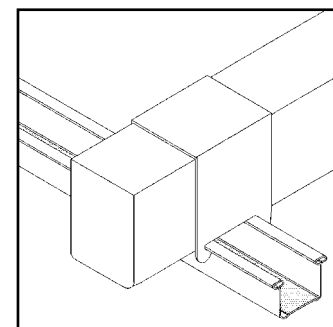


FIGURE 5: Attaching the furring channels

ARCHITECTURAL SPECIFICATIONS

SCOPE

The contractor is to furnish all materials, labour and equipment for erection of a Rondo Walk-About Trafficable Ceiling System where so indicated on the architectural drawings.

MATERIAL

The Rondo Walk-About Trafficable Ceiling Suspension System shall be as manufactured by Rondo Building Services Pty Ltd. All materials supplied by Rondo Building Services meet the relevant A.S.A. Standards. Actual walkways shall be as per AS 1657-1992.

INSTALLATION

The Primary Rail shall be hung on 8mm threaded rod, accurately levelled. Suspension brackets shall be atmm centres along the primary rail. Primary Rails are to be spaced atmm centres. Secondary Primary Rails shall run at right angles to the primary rails and be positively fixed together. Furring Channels shall be spaced so as not to exceed the design ceiling load or as otherwise to provide a 1/..... of span deflection. Extra hangers fixed to the boxed studs shall be provided for light fittings, air conditioning units etc., that are supported by the grid system. Down bracing is to be incorporated in ceiling systems when used externally or adjacent to openings prone to sudden uplift caused by external wind forces.

IMPORTANT

The Rondo Walk-About Ceiling Suspension system can be used in conjunction with any one of the Rondo Ceiling systems available. It can have one or more grid systems directly fixed underneath it, eg, Rondo Walk-About System can have suspended from it a Rondo Concealed Grid System, a Two Way Exposed Ceiling or a One Way Linear System. All positively locked together with individual provision for expansion and contraction. The Rondo range of ceiling systems can interlock with each other in the same ceiling area, providing specialised ceilings after partitioning. Partition fixing is available at any point on the ceiling within 13mm of nominated line.

ADVISORY SERVICE

Individual projects may require special detailing and development. Technical assistance is available from our engineering staff, such as detailed drawings, custom sections, or clarification of other Rondo services.

NOTE

As new technology is introduced, or industry standards are altered, Rondo reserves the right to alter existing specifications without notice.

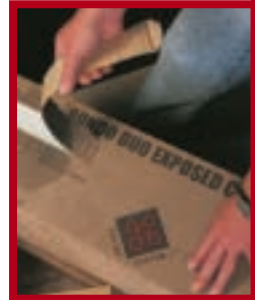
GUARANTEE

Rondo Building Services Pty Ltd supplies the Walk-About Building Board Ceiling Suspension System which is warranted to be free from defects in material and workmanship, and will replace and/or repair any product found to be defective, if installed in accordance with our technical literature and standard guarantee details. This warranty is in addition to any rights the customer may have at law. All of Rondo Building Services' products are designed to satisfy Australian and New Zealand conditions.

ADDITIONAL RONDO PRODUCTS

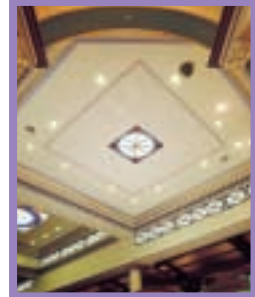
CEILING SYSTEMS — NON-FIRE RATED

- Rondo Key-Lock Building Board ceiling suspension system.
- Rondo Tag-Lock Aluminium exposed ceiling suspension system with a choice of 14mm, 24mm, 32mm /Top Hat or Plain face/One Way or Two way Exposed.
- Rondo Duo two way exposed ceiling suspension system. 14mm/24mm.
- Rondo Classic Concealed Ceiling Suspension System — Totally face demountable.
- Rondo Walk-About Trafficable ceiling system.



CEILING SYSTEMS — FIRE TESTED

- Key-Lock plasterboard ceiling suspension system — 1, 1.5 and 2 hour ratings.



WALL PARTITION SYSTEMS — NON FIRE TESTED

- Rondo Steel stud dry wall partition systems — Load bearing — Non load bearing.

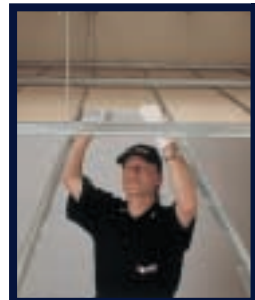
WALL PARTITION SYSTEMS — FIRE TESTED

- Rondo Steel stud dry wall partition systems — 1, 1.5, 2, 2.5, 3 and 4 hour ratings.



OTHER PRODUCTS

- Rondo Exangle Building Board, and Rendered Plaster Sections.
- Rondo Panther Access Panels — Acoustic & Fire Tested.
- Rondo Custom Roll Forming Services.



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