RONDO WALK-ABOUT™ TRAFFICABLE CEILING SYSTEM

SUMMARY

The Rondo WALK-ABOUT™ System provides a framework onto which a trafficable platform can be installed in the plenum area above ceilings for servicing mechanical and electrical services. Using standard Rondo steel stud profiles with purpose made joiners and clips, the WALK-ABOUT system is suspended from the structure above to provide a safe and secure access to services whilst simultaneously providing a support for the ceiling beneath.

SUITABLE FOR:

- Steel Ceiling Grid Systems
- Supporting a Walking Platform in the Ceiling Plenum
- Seismic Designs*
- Supporting of direct fixed or fully suspended ceilings beneath

SPECIAL FEATURES

- Seamlessly integrates with Rondo KEY-LOCK® and Rondo DUO® Ceiling Systems
- Basic system design will accept a 1.1kN point load with a deflection limit of L/360

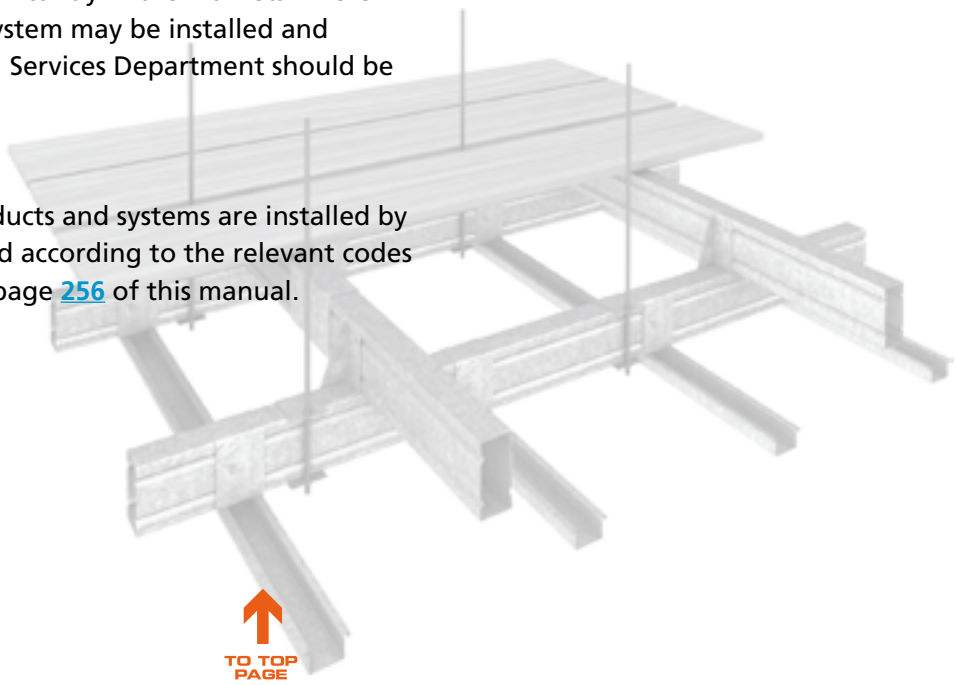
IN PRACTICE

As the second largest air conditioned footprint on earth (after NASA), the ***Venetian Resort and Casino, Macau*** is possibly one of the finest examples of the Rondo WALK-ABOUT system in situ, utilizing over 30,000m^2 of WALK-ABOUT ceiling to access their extensive services above ceiling level. The system also acted as a structure to support the curved KEY-LOCK® ceiling, forming the famous "sky" ceiling of the resort.

* Seismic activity varies significantly in the markets where the Rondo WALK-ABOUT System may be installed and therefore Rondo's Technical Services Department should be contacted for assistance.

IMPORTANT NOTE:
Rondo recommends its products and systems are installed by a qualified tradesperson and according to the relevant codes and standards outlined on page 256 of this manual.

CONTENTS:



TO TOP PAGE

RONDO WALK-ABOUT™ COMPONENTS

PRIMARY SECTIONS

112	64mm x 0.50bmt Stud

FURRING CHANNELS

129	28mm Furring Channel
308	16mm Furring Channel

WALL TRIM

111	64mm x 28mm x 0.50bmt with hem

SECTION JOINERS

224	Stud to Furring Channel Joiner
270	90° Stud to Stud Joiner

SUSPENSION ROD & BRACKET

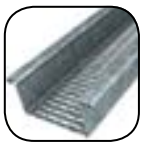
271	Bracket to suit 8mm rod
Not Supplied	8mm Threaded rod

PRIMARY SECTION

112

FURRING CHANNELS

129



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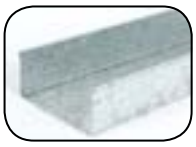
WALL TRIM



111

SECTION JOINERS

224

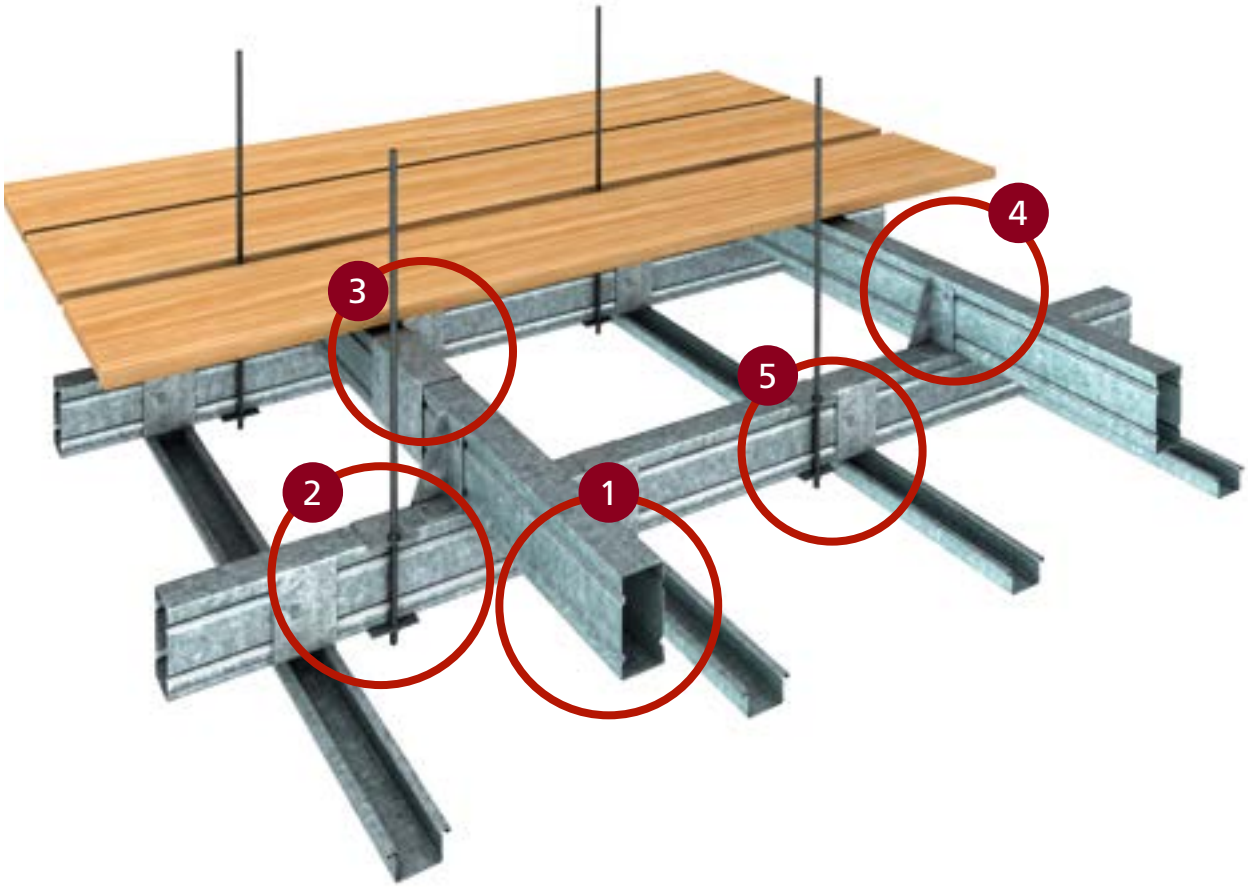
270

SUSPENSION ROD & BRACKET

271

THREADED ROD

TYPICAL APPLICATION DETAILS



Circled areas on the drawing refer to figures shown in more detail on the following pages.

Once the framework is constructed, a walking platform can be installed in accordance with AS 1657-1992, the current *"Design, Construction and Installation Code"* for *"Fixed Platforms, Walkways, Stairs and Ladders"*.

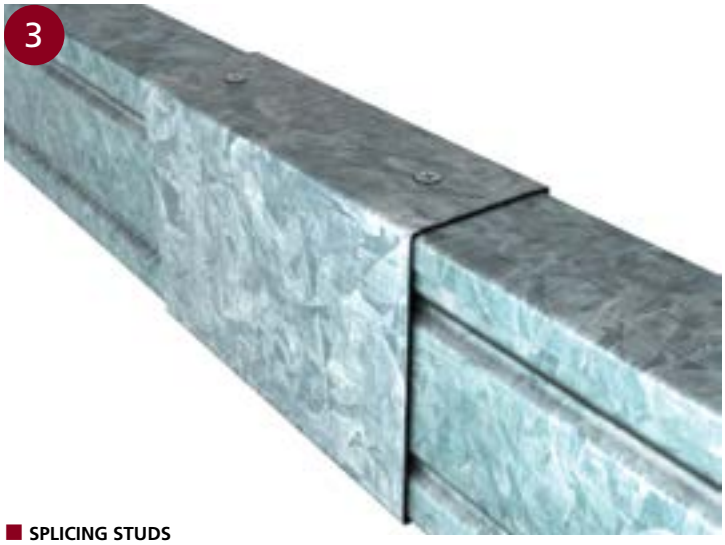
Although Rondo does not manufacture or supply systems or components for the construction of walking platforms, our Technical Services Department can assist customers in determining their requirements.

TO TOP PAGE

INSTALLATION DETAILS

BOXED STUDS

ATTACHING STUDS TO THE ROD



SPLICING STUDS

The following installation details are based on using the Rondo 112 Stud 64 x 0.50BMT profile.

STEP ONE

The Rondo steel stud sections will require boxing.

Looking at the end profile, note that one flange leg is 2mm longer than the other. In order to box the studs, position them so that the shorter flange leg of one stud fits inside the longer leg of the other. Then squeeze the studs together starting at one end and working along the full length of the studs. The studs now form a box section as shown in Figure 1.

STEP TWO

The structural suspension fixings should now be installed and set out in a 1200 x 1200mm grid pattern.

The 8mm threaded rod hangers, once cut to the appropriate length, are then secured to your structural fixings. One M8 nut should then be spun onto the end of each threaded rod hanger at a distance of 90mm.

STEP THREE

Place the Rondo Part # 271 'U' Brackets onto the boxed stud section and attach to the threaded hanger rods with another M8 nut beneath the bracket. The primary studs are then secured to the threaded rod hangers as in Figure 2.

STEP FOUR

If joining studs is required, they should be spliced end to end with short pieces of Rondo 111 64mm Track screwed into each end of the stud top and bottom as in Figure 3.

STEP FIVE

When the full primary stud assembly has been completed it will be necessary to level the system using a suitable leveling device such as a laser. Adjusting the two nuts on each hanger 'U' Bracket will ensure the system is leveled and the nuts should be secured tightly.

STEP SIX

The secondary boxed stud assembly should now be installed at 90° to the primary studs and spaced 1200mm apart on top of the primary stud assembly. The secondary stud assembly is secured to the primary studs with the Rondo 270 Angle Bracket using two screws through the bracket to each stud as shown in Figure 4.

STEP SEVEN

Rondo Furring Channel can now be attached to the underside of the system by placing the Rondo 224 Furring Channel Clip over the lower primary stud assembly and clipping the Furring Channel into place as shown in Figure 5. Once the Furring Channel is installed the clip cannot be removed.

Similarly, a full Rondo KEY-LOCK® Concealed Ceiling System for building board can be installed using either direct fix or suspension methods as detailed on pages 11 and 16 of this Design Manual, where the primary stud assembly is used as a purlin.

The same applies to the installation of a Rondo DUO® Exposed Grid Ceiling System.

STEP EIGHT

The system is now ready for the installation of the platform or walkway to be positioned onto the primary stud framework to both coincide with any personnel access panels and adjacent to any mechanical or electrical equipment.

STEP NINE

Once the platforms are in place and properly secured and after a final check of the level the ceiling board can be attached to the Furring Channel in accordance with the board manufacturers recommendations.

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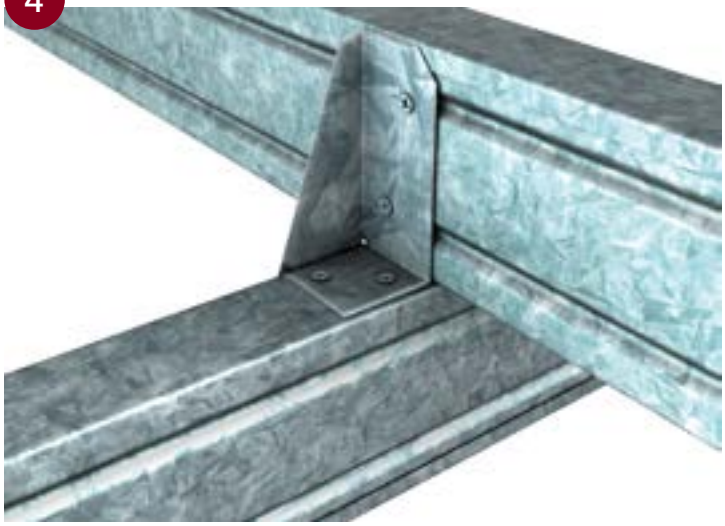

INSTALLATION OF THE SECONDARY PRIMARY SYSTEM

5

ATTACHING THE FURRING CHANNELS

PLEASE NOTE:

If access panels are to be installed in the ceiling, these must be the type of panel that allow safe access into the plenum space by service personnel. The standard Access Panels in Rondo's PANTHER® range are not designed as personnel access panels.

TO TOP PAGE