



RAIL SYSTEM AND ACCESSORIES



RAILS

Aesthetically pleasing, all our rails have a white powdercoat finish, blending them in with most ceiling finishes. In some cases rails may be recessed into the ceiling during the construction period.

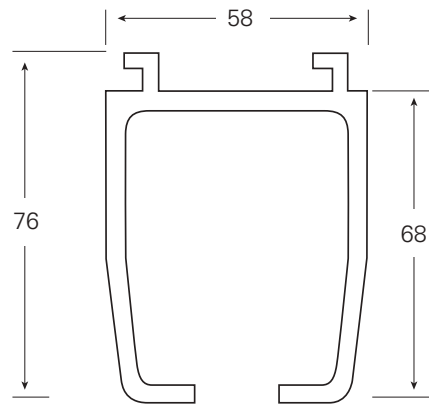
SLIMLINE RAIL

CHS Slimline rails are used in both linear & XY applications. Lightweight & aesthetically pleasing this rail is suitable for systems up to 450kg SWL and may be recessed into the ceiling if required. Suits all CHS hoist units, bends, turntables, XY systems and accessories. For bracket details, see later in this section.



LENGTH IN METRES AND CODE

LENGTH	2	3	4	6	7.2
CODE	LSLO2	LSLO3	LSLO4	LSLO6	LSLO72

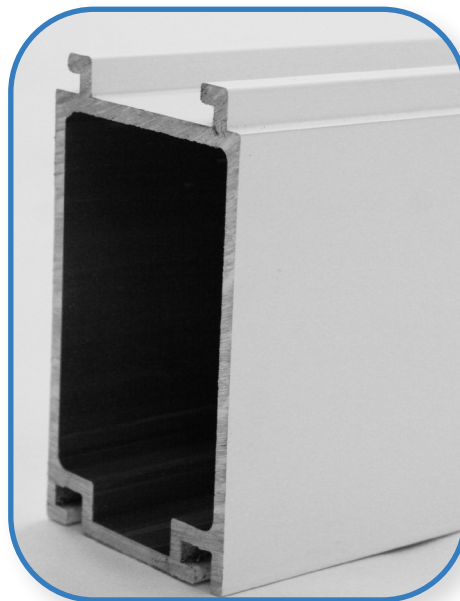


TECHNICAL SPECIFICATIONS

WIDTH	58mm
HEIGHT	76mm

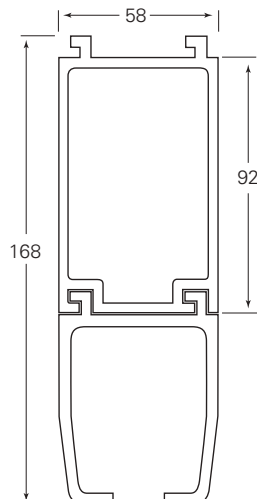
PIGGYBACK RAIL

CHS Piggyback rail is combined with Slimline rail to provide additional strength for increased spans and SWL. Depending on the requirements it can be fitted as single or double Piggyback. It may also be fitted between XY parallel rails thus saving lift height and improving overall appearance. For bracket details, see later in this section.



LENGTH IN METRES AND CODE

LENGTH	4	6	7.2
CODE	LSPB04	LSPB06	LSPB072



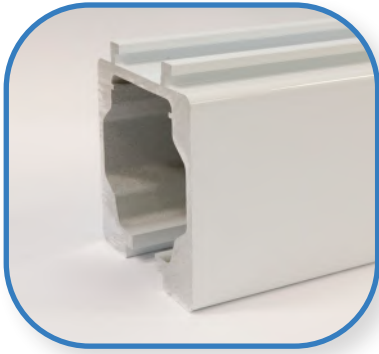
TECHNICAL SPECIFICATIONS

WIDTH	58mm (single)	58mm (Double)
HEIGHT	168mm (single)	260mm (Double)

SUPA RAIL

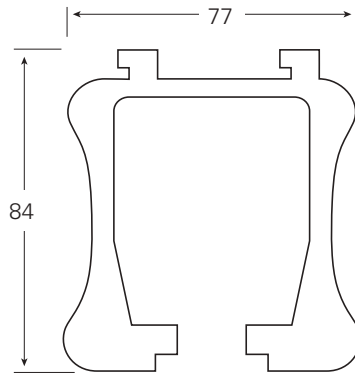
The thicker profile of the SupaRail allows for extended spans between supports making it suitable for XY traverse rails and wall mount situations. Reduced depth provides a more aesthetically pleasing finish without loss of lift height.

For bracket details, see later in this section.



LENGTH IN METRES AND CODE

LENGTH	3	3.8
CODE	LSRO3	LSRO38



TECHNICAL SPECIFICATIONS

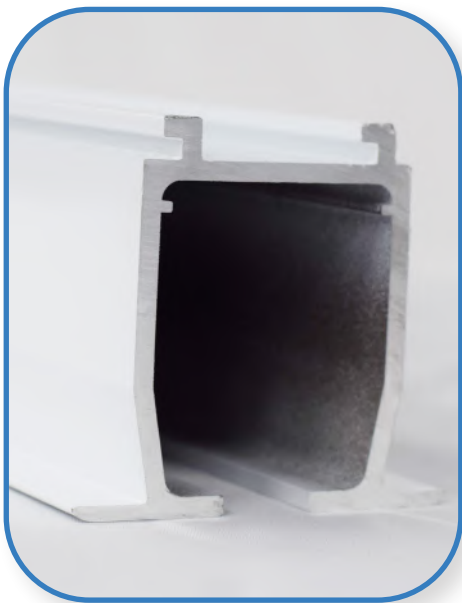
WIDTH	77mm
HEIGHT	84mm

FINELINE RAIL

CHS Fineline rails are designed to be built into closed ceilings, giving a beautiful integral appearance.

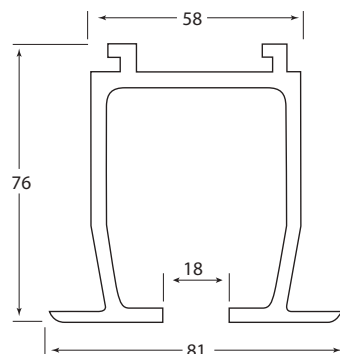
This concealed lightweight rail is suitable for systems up to 450kg SWL and suits CHS's full range of fixed and portable hoist units. Neat moulded access panels at rail end provide for hoist servicing needs.

Technical data sheet available on request with further details.



LENGTH IN METRES AND CODE

LENGTH	2	3	4	6	7.2
CODE	LFLO2	LFLO3	LFLO4	LFLO6	LFLO72



TECHNICAL SPECIFICATIONS

WIDTH	58mm (single)	81mm (Base Width)
HEIGHT	76mm (single)	18mm (Track Opening)

XY ROOM COVERAGE RAIL SYSTEMS CLEARANCE FROM CEILINGS

As many combinations of parallel and traverse rails are possible in XY systems the following diagrams will assist with both the planning and installation stage.

The following two combinations provide the most aesthetically pleasing solutions;

- Fineline fully concealed parallel rails matched with an underslung traverse rail - drawings O, P & Q or
- Slimline surface mounted parallel rails matched with an inset traverse rail - drawings E & F

CONSIDERATIONS

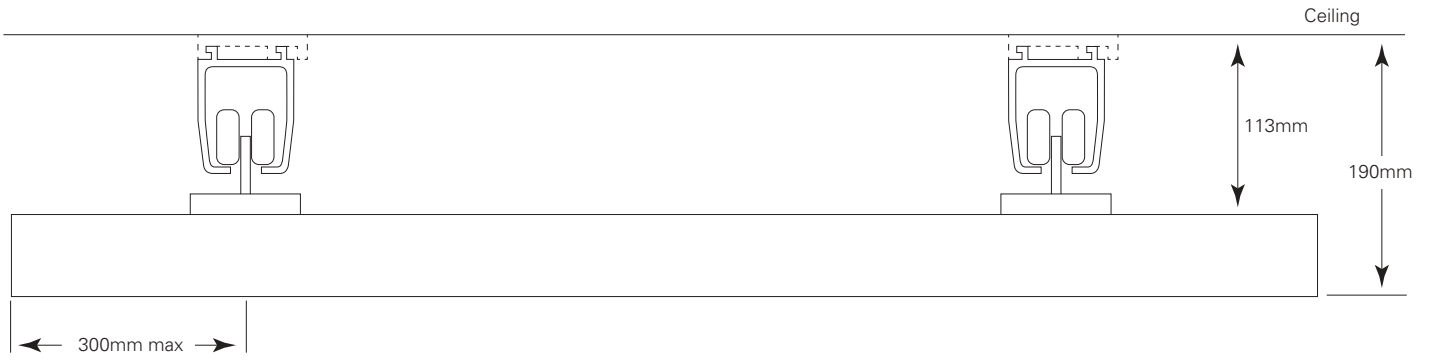
- Protrusion of other ceiling fixtures eg lights, sprinklers, smoke detectors etc.
- Traverse rail spans - refer to chart for suitability and SWL requirements
- Requirement for 6 way fullypowered xy systems
- Requirement for gate systems (xy to mono rail)

For further combinations, please contact CHS.

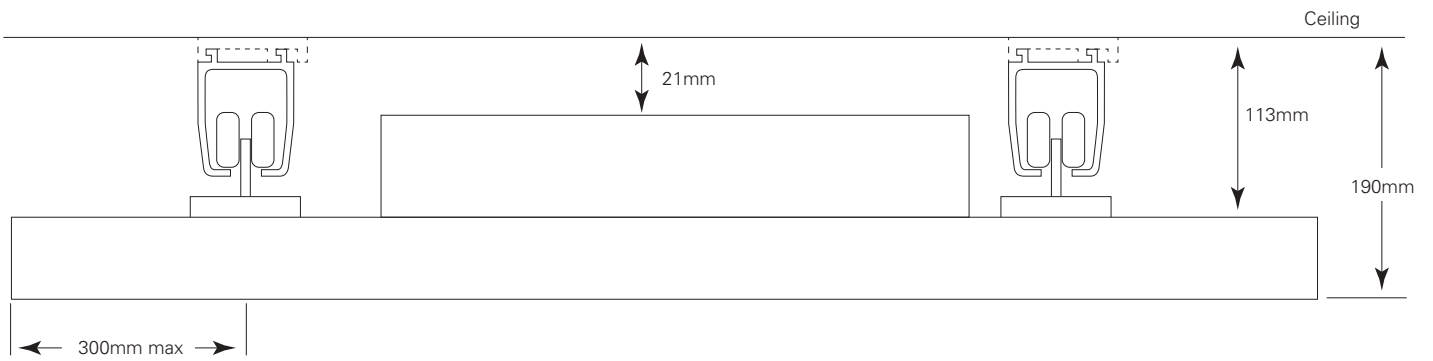
RAIL SPAN CHART (FOR FINELINE REFER TO INSTALLATION SECTION)

SWL (Kg)	MAXIMUM DISTANCE BETWEEN SUPPORT (Metres)			
	SLIMLINE	SINGLE PIGGYBACK	DOUBLE PIGGYBACK	SUPA RAIL
200	2.2	5.0	7.2	4.5
300	1.8	4.2	6.4	4.0
360	1.6	3.4	6.0	3.8
450	1.2	3.2	5.0	3.5
SWL (Kg)	MAXIMUM CANTILEVER			
200	0.25	0.4	0.4	0.5
300	0.25	0.4	0.4	0.5
360	0.20	0.4	0.4	0.5
450	0.20	0.3	0.4	0.5
	RAIL LENGTH AVAILABILITY			
2M	X	X	X	
3M	X	X	X	X
3.8M				X
4M	X	X	X	
5M				
6M	X	X	X	
7.2M	X	X	X	

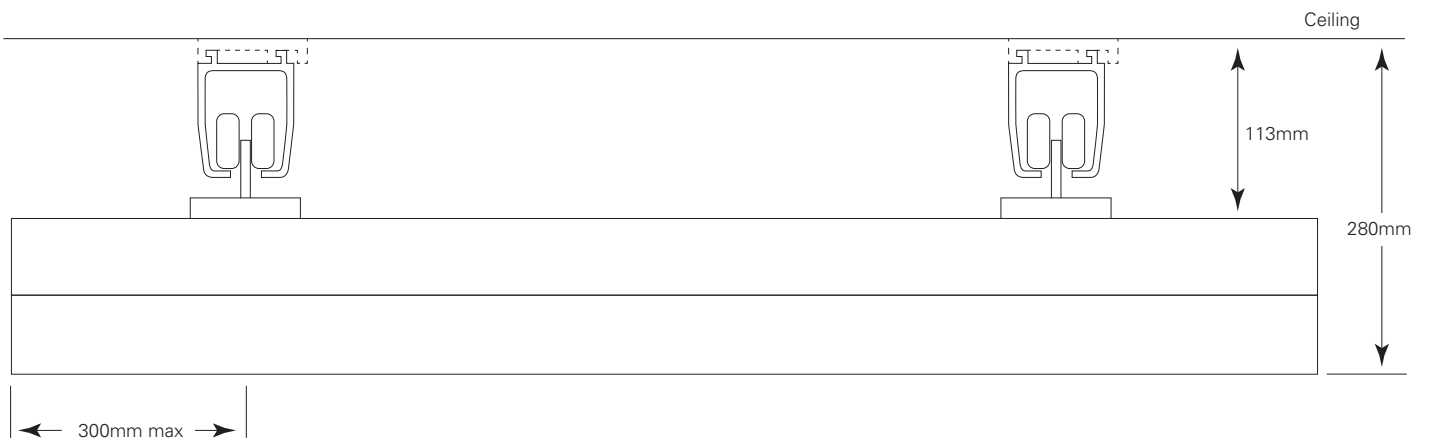
A. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL - XY TROLLEY MANUAL STANDARD



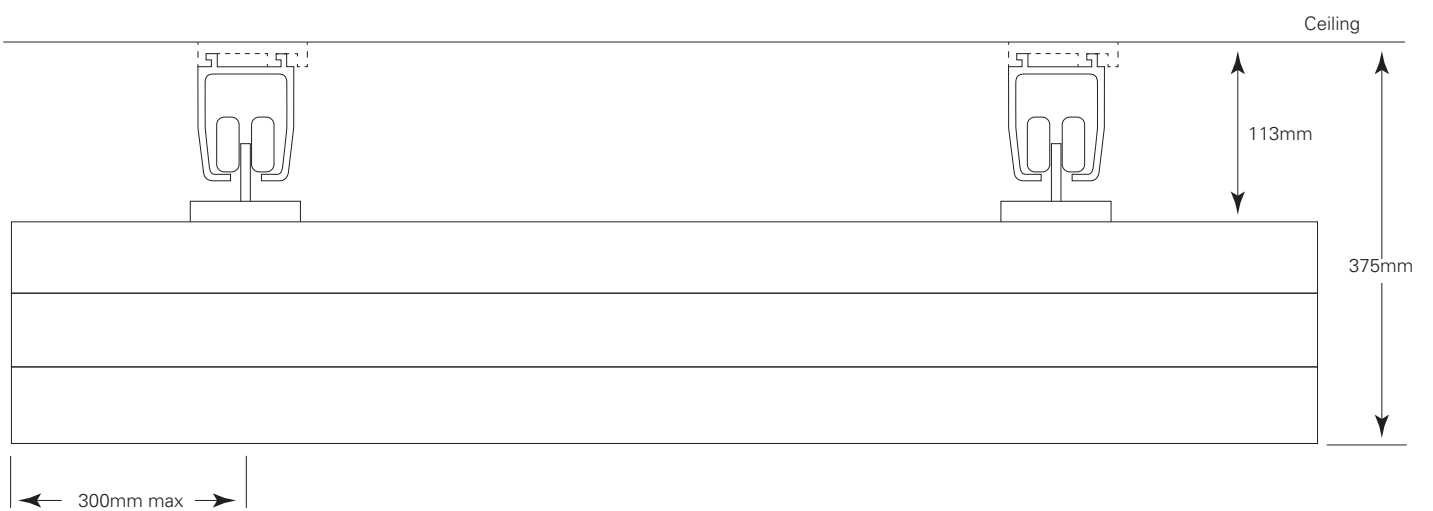
B. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL WITH PIGGYBACK INSET - XY TROLLEY MANUAL STANDARD



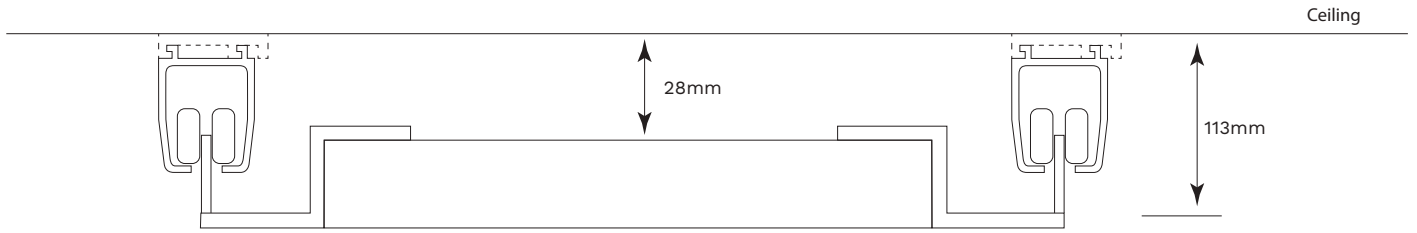
C. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL SINGLE PIGGYBACK - XY TROLLEY MANUAL STANDARD



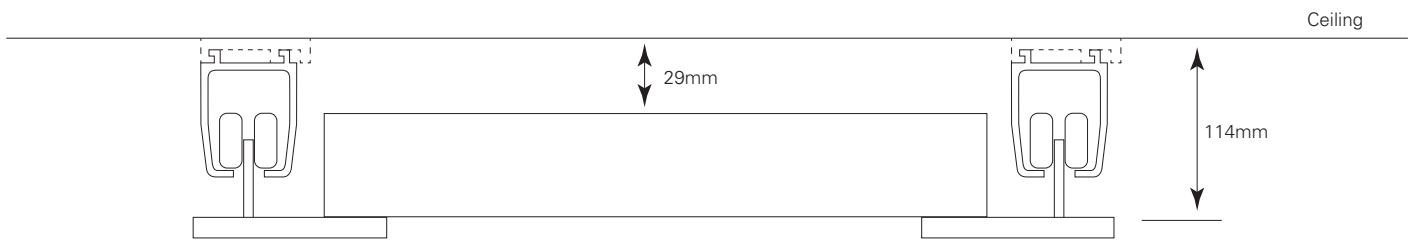
D. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL DOUBLE PIGGYBACK - XY TROLLEY MANUAL STANDARD



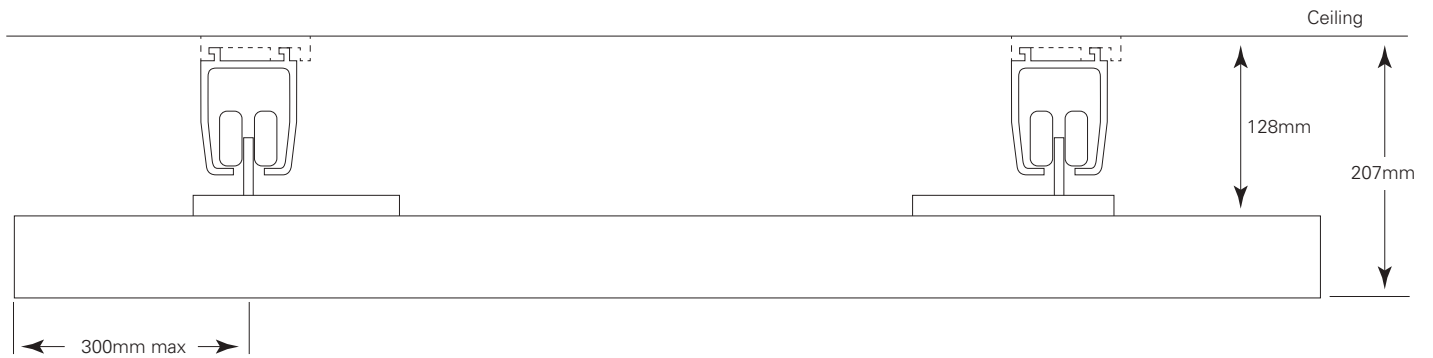
E. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL - XY TROLLEY ABOVE MOUNT



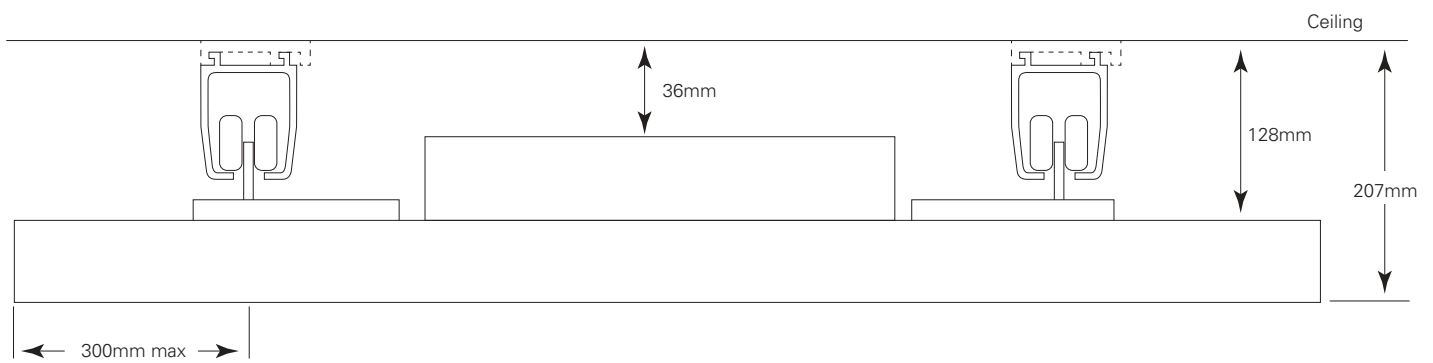
F. SLIMLINE PARALLEL RAIL AND SUPERRAIL TRAVERSE RAIL - XY TROLLEY ABOVE MOUNT



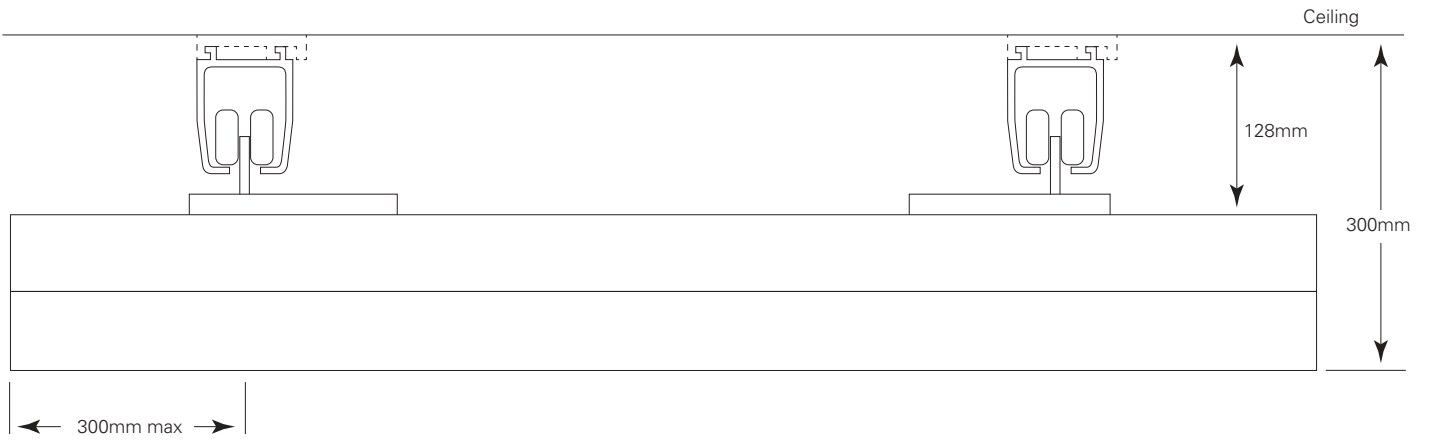
G. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL - XY TROLLEY OFFSET OR POWERED



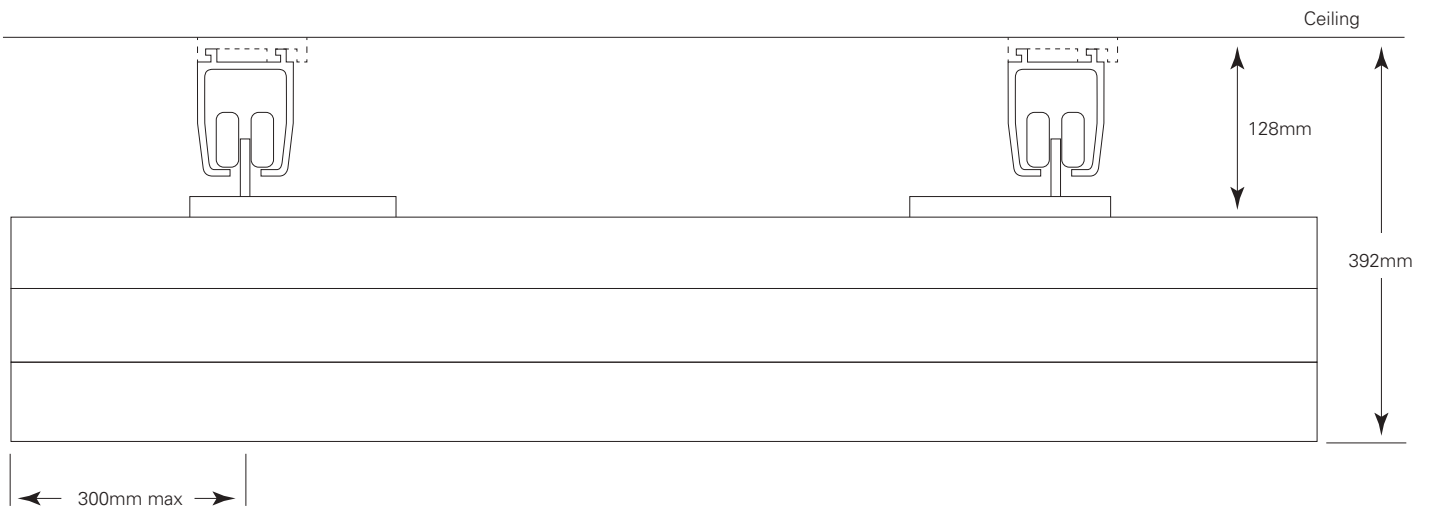
H. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL PIGGYBACK INSET - XY TROLLEY OFFSET OR POWERED



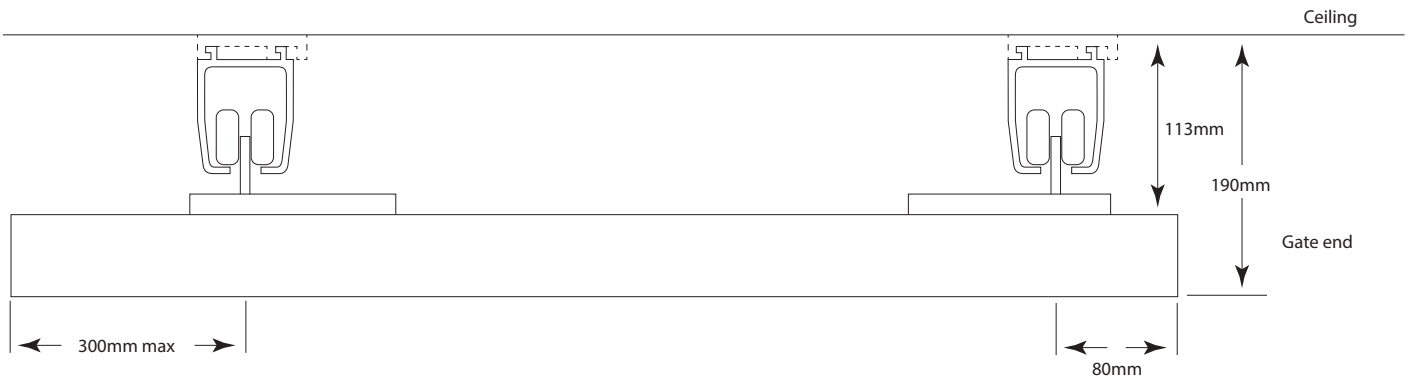
I. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL SINGLE PIGGYBACK - XY TROLLEY OFFSET OR POWERED



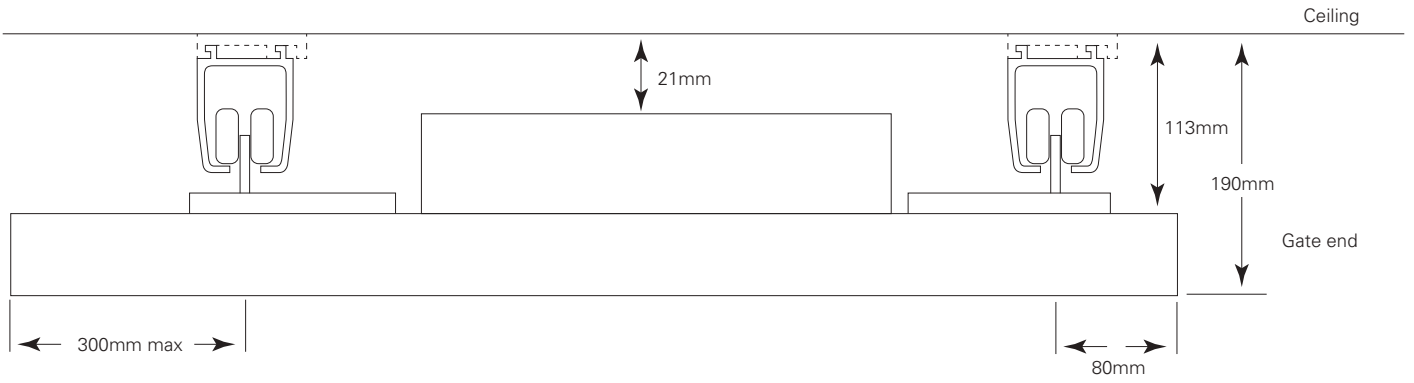
J. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL DOUBLE PIGGYBACK - XY TROLLEY OFFSET OR POWERED



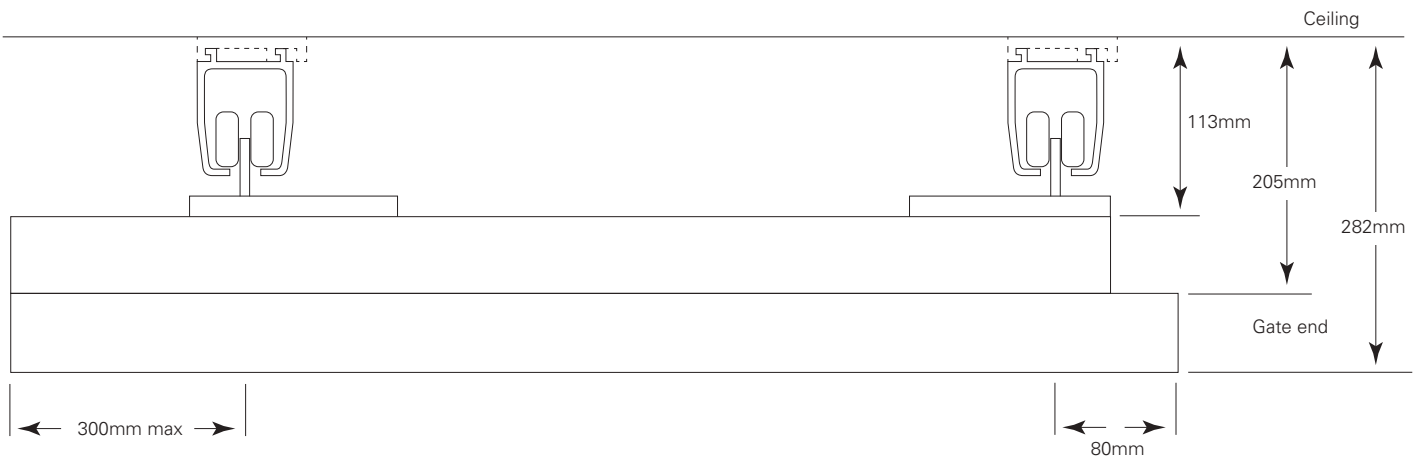
K. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL - XY TROLLEY GATE SYSTEM



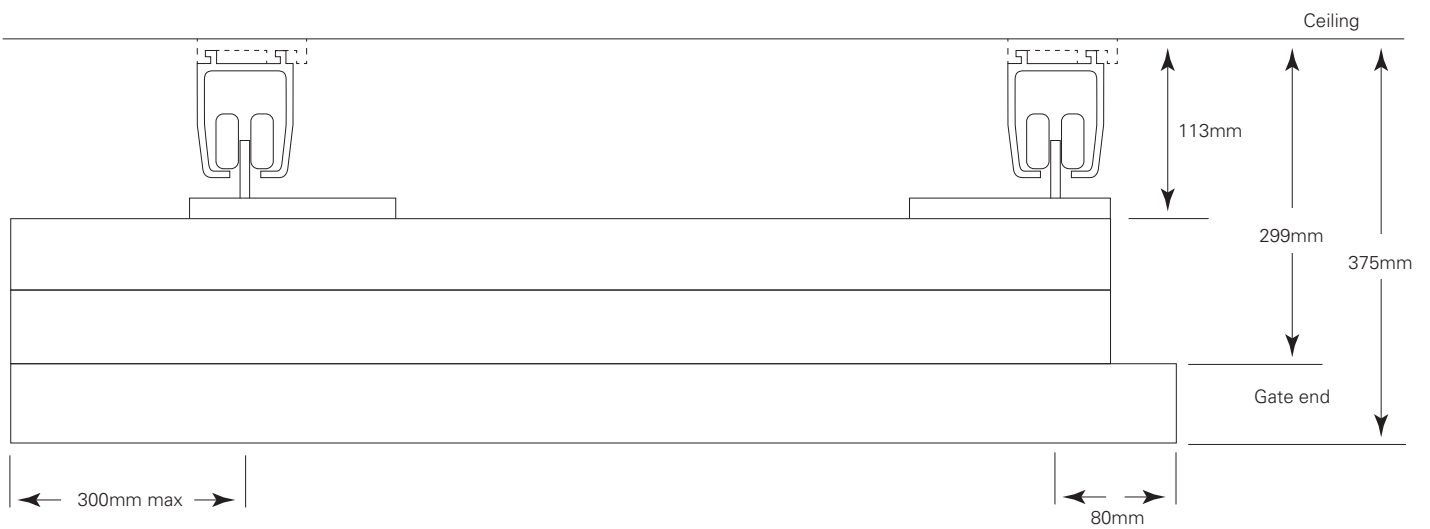
L. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL PIGGYBACK INSET - XY TROLLEY GATE SYSTEM



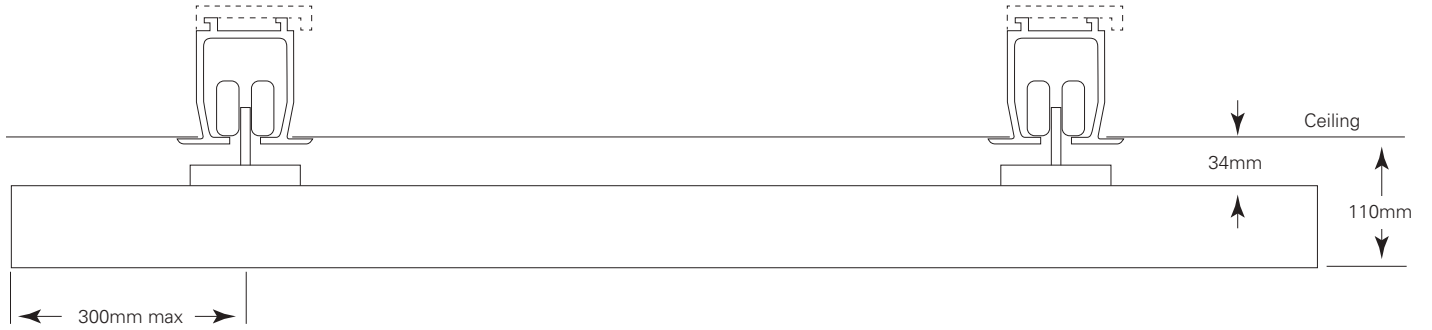
M. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL SINGLE PIGGYBACK - XY TROLLEY GATE SYSTEM



N. SLIMLINE PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL DOUBLE PIGGYBACK - XY TROLLEY GATE SYSTEM



O. FINELINE (CONCEALED) PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL - XY TROLLEY MANUAL STANDARD



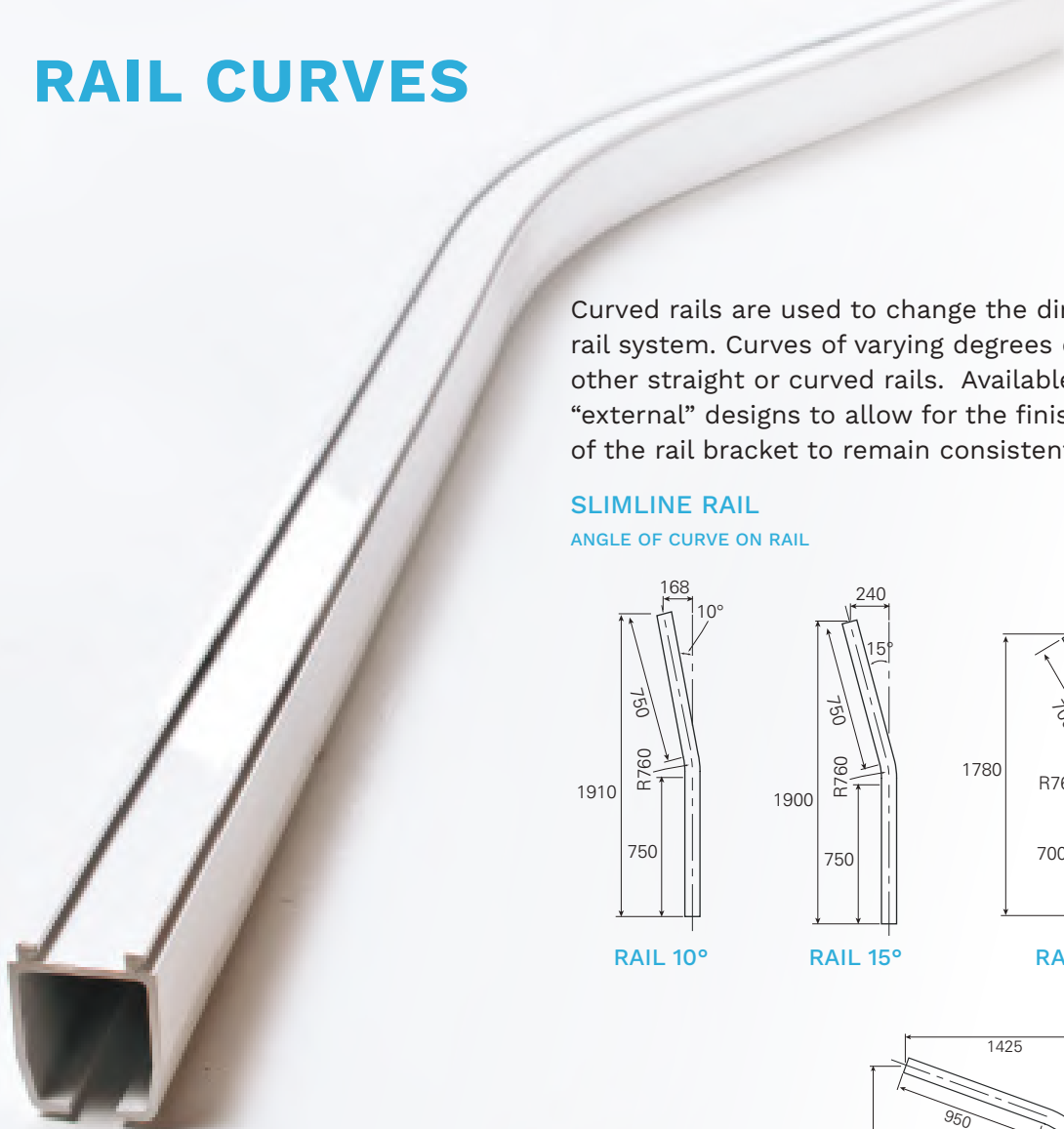
P. FINELINE (CONCEALED) PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL SINGLE PIGGYBACK XY TROLLEY MANUAL STANDARD



Q. FINELINE (CONCEALED) PARALLEL RAIL AND SLIMLINE TRAVERSE RAIL DOUBLE PIGGYBACK XY TROLLEY MANUAL STANDARD



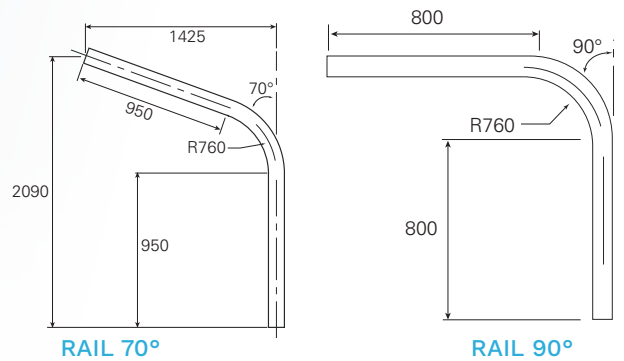
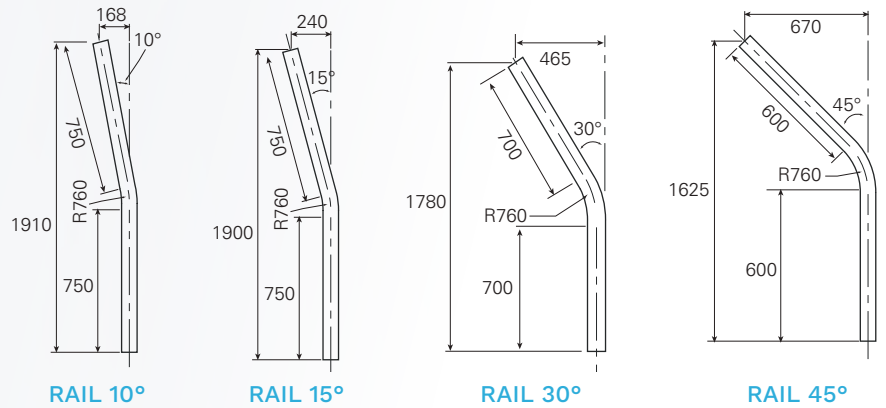
RAIL CURVES



Curved rails are used to change the direction of rails in a single rail system. Curves of varying degrees can be used with other straight or curved rails. Available in “internal” or “external” designs to allow for the finished side of the rail bracket to remain consistent

SLIMLINE RAIL

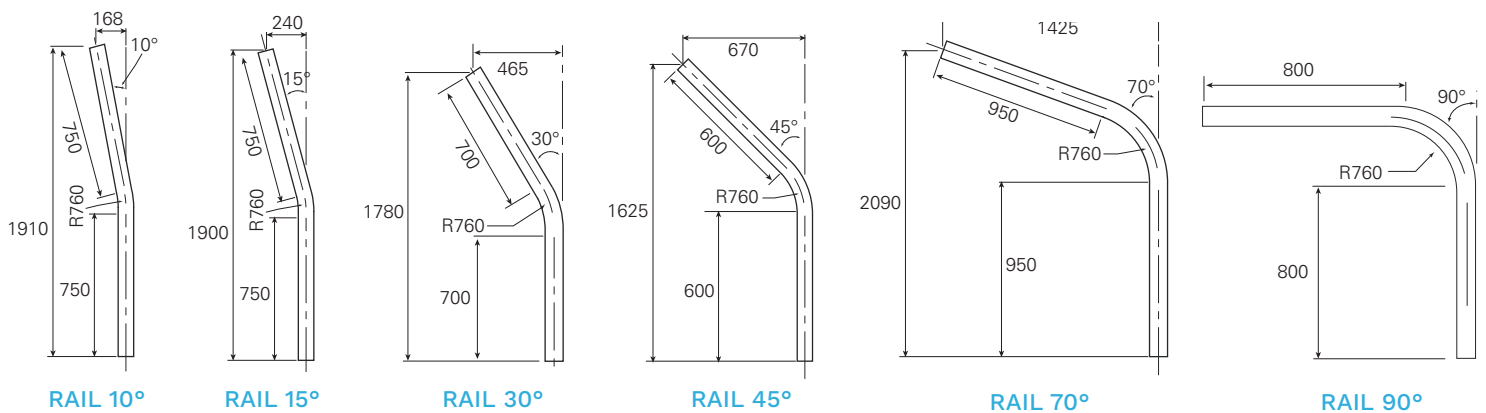
ANGLE OF CURVE ON RAIL



Internal	10° BSL10I	15° BSL15I	30° BSL30I	45° BSL45I	70° BSL70I	90° BSL90I	CUSTOM BSLCST
External	10° BSL10E	15° BSL15E	30° BSL30E	45° BSL45E	70° BSL70E	90° BSL90E	CUSTOM BSLCST

FINELINE RAIL (CONCEALED SYSTEM)

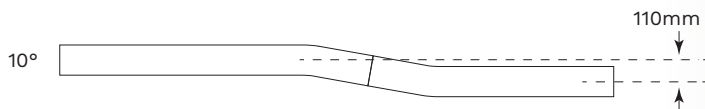
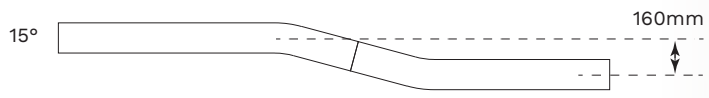
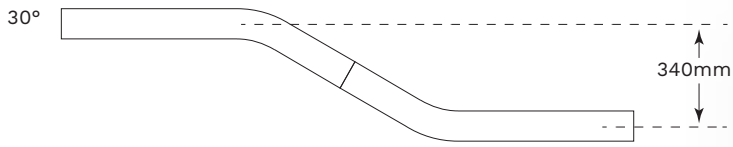
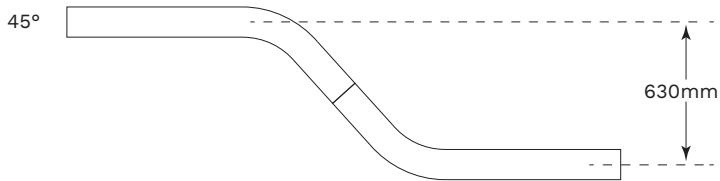
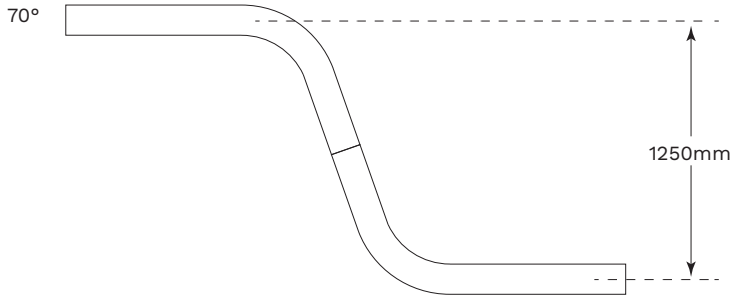
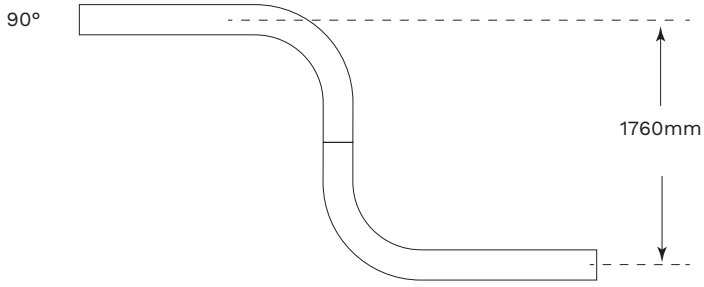
ANGLE OF CURVE ON RAIL



Internal	10° BFL10I	15° BFL15I	30° BFL30I	45° BFL45I	70° BFL70I	90° BFL90I	CUSTOM BFLCST
External	10° BFL10E	15° BFL15E	30° BFL30E	45° BFL45E	70° BFL70E	90° BFL90E	CUSTOM BFLCST

Internal Tongue on top of rail points to the outside curve of rail.
 External Tongue on top of rail point to the inside curve of rail.

MINIMUM RAIL CURVE OFFSET DIMENSIONS (SLIMLINE AND FINELINE)

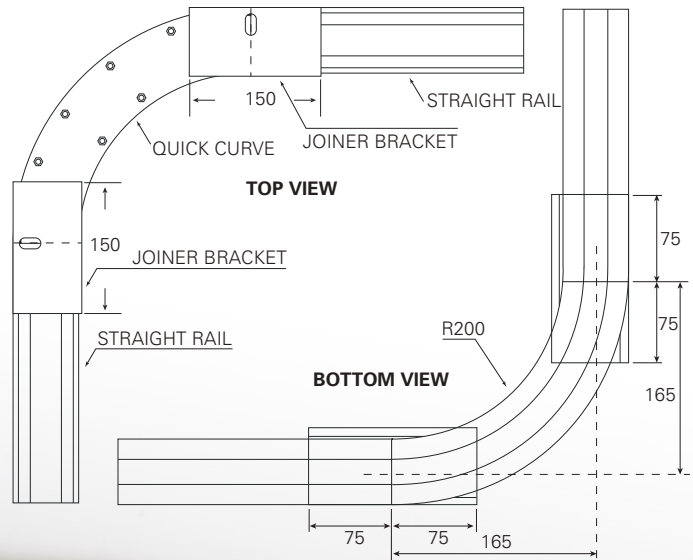


* 100 mm of straight rail is allowed on each trimmed curve



QUICK CURVE RAIL

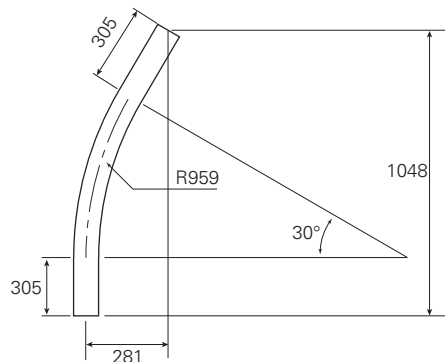
The Quick Curve is our newest addition to our rail options. This patent pending technology is currently available for portable & C-Series manual traverse ceiling hoists. The Quick Curve is a 90° curve with a turning radius of 200mm, potentially avoiding the requirement for more costly installation options. Mounted only to the adjacent sections of straight rail, the Quick Curve may offer a more cost effective installation. Available in internal or external designs.



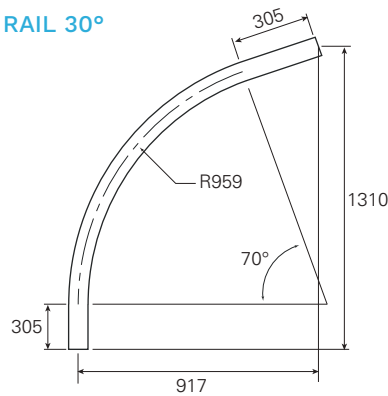
VOYAGER RAIL

ANGLE OF CURVE ON RAIL

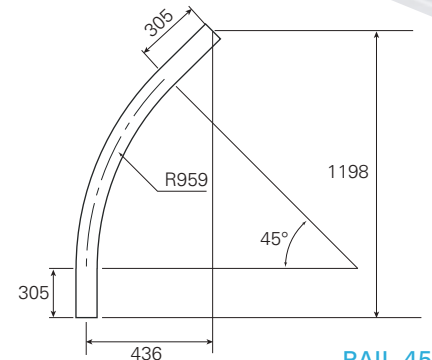
15°	30°	45°	70°	90°	CUSTOM
	A0180	A0175	A0185	A0170	



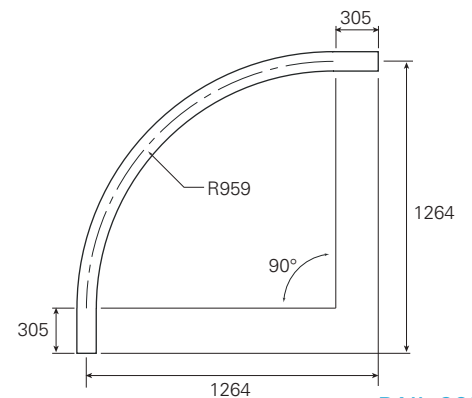
RAIL 30°



RAIL 70°



RAIL 45°



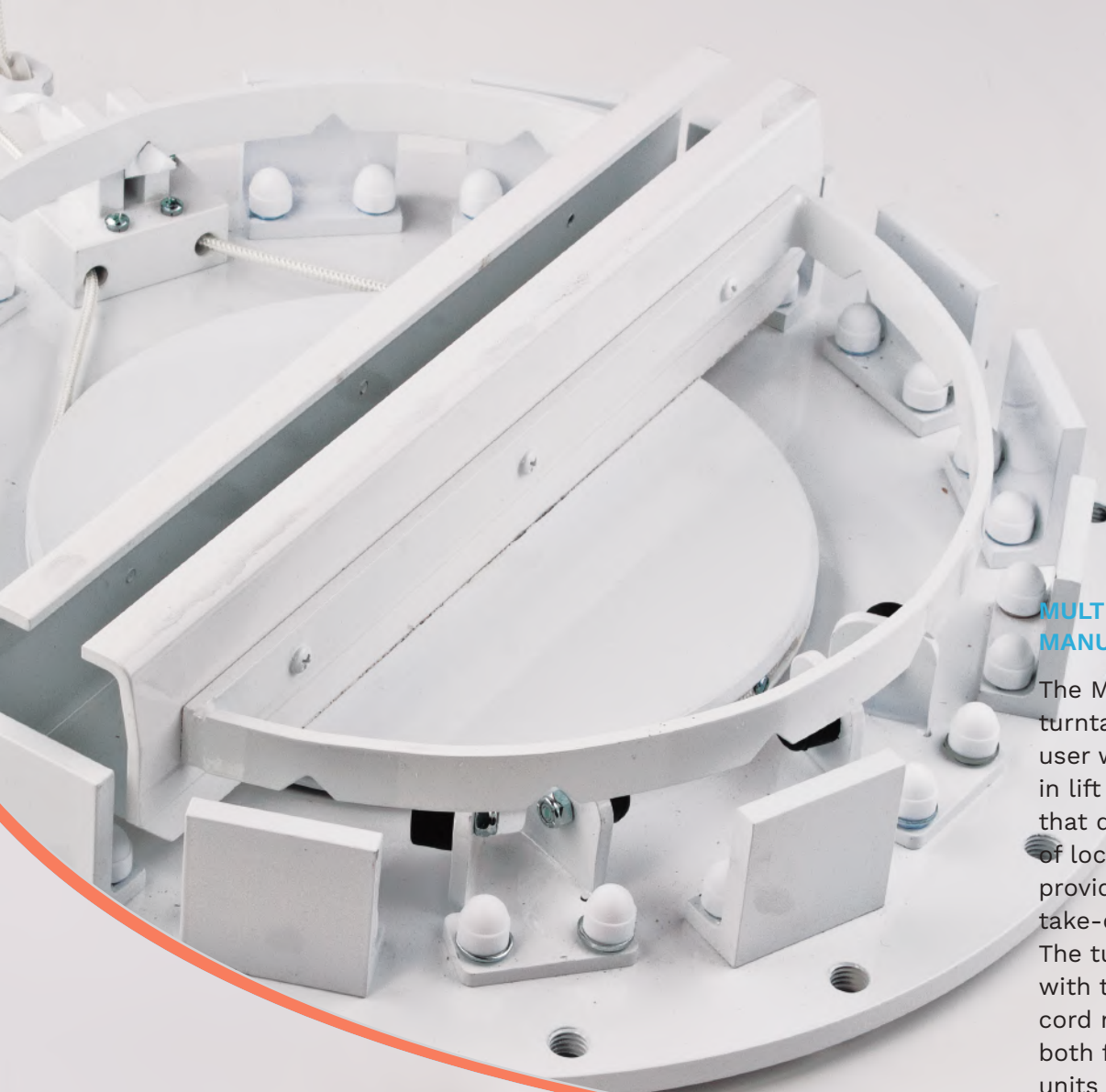
RAIL 90°

TURNTABLES



MULTI-PORT TURNTABLE POWER 14 PORT

The Multi-port powered turntable offers the end user ultimate flexibility in situations that require access to a number of transfer locations. The turntable provides 10 take-off points in graduations of 22°. Suitable for fixed C-Series hoists up to 300kg SWL. Operated via hoist controls, no need for additional power supply.



MULTI-PORT TURNTABLE MANUAL 16 PORT

The Multi-port manual turntable provides the end user with ultimate flexibility in lift and transfer situations that demand a wide range of locations. The turntable provides 15 different ceiling rail take-off points at 22° intervals. The turntable is easily rotated with the use of a simple pull cord mechanism. Suitable for both fixed and portable hoist units up to 300kg SWL



QUICK-FIT TURNTABLE MANUAL 4 PORT

The Quick-fit turntable allows for directional change at 90° intervals. The turntable is rotated using a simple pull cord mechanism. Suitable for both fixed and portable units up to 300kg SWL.

GATE SYSTEM-XY TO MONO RAIL

AUTO-GATE

The Auto-Gate enables a transfer between an XY gantry and single rail. The Auto-Gate's revolutionary design does not require the use of any electrical components. Simply driving the hoist into the gate locks it in place to transfer to the other rail. When gate is not in use, safety locks prevent travel out of free end of rail.



AUTO-GATE

AUTO-GATE



XY GAIT LOCK



AUTO-GATE



TREADMILL LOCK



XY GAIT LOCK

Enables Gait training to take place on a room covering system. This lock can be placed in one or more locations along the parallel rails and is simply operated via pull cords. Popular in physio departments over walking rails combined with use of walking slings

TREADMILL LOCK

The Treadmill Lock enables patients to use a treadmill whilst in a walking sling. This Lock is fitted to the C Series hoist and can be used on either a XY room covering system or mono rail system to lock the hoist in position over a treadmill. Operated via simple pull cords.

TROLLEYS

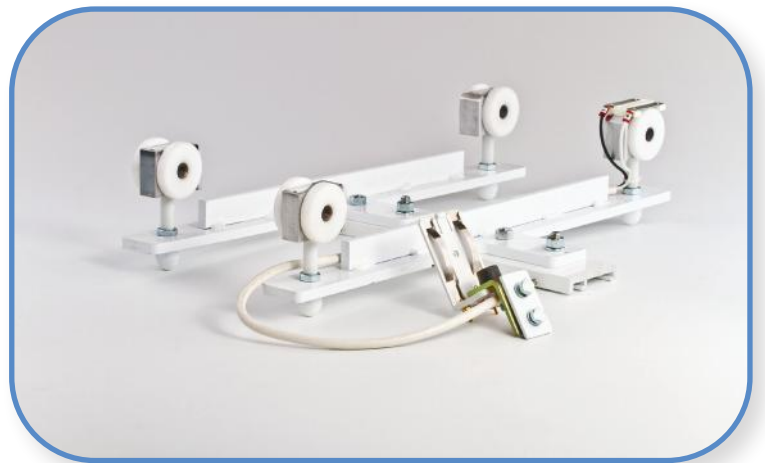


XY TROLLEY SET MANUAL TRAVERSE STANDARD

The Standard XY trolley set is used to connect the traversing boom to the parallel support rails on a XY gantry system. Available for both fixed and portable units. A contact assembly must be added to this set to enable charging of 2 or 4 way fixed hoist units.

XY TROLLEY SET MANUAL TRAVERSE OFFSET

The traversing XY gantry trolley set is used to connect the traversing boom to the parallel support rails for an XY gantry system. Traverse rail brackets are offset allowing more clearance to side of parallel rails. Available with and without contact assembly.



XY TROLLEY SET MANUAL TRAVERSE ABOVE MOUNT

The above mount is used where additional lift height may be required. The traverse rail is fitted between the parallel rails and travels at the same height. Clearance from ceiling fixtures must be planned when using this system. Available with or without contact assembly.





XY TOLLEY SET POWER TRAVERSE

The traversing XY gantry power traverse trolley set allows for full power operation of the XY gantry boom. The boom travel is activated via buttons on the hand control. Suitable for bariatric requirements up to 450kg or when complete independent control is required.

QUICK CURVE TROLLEY

An exceptionally compact trolley, which must be used for any rail system which includes "Quick Curves" and portable hoist units.

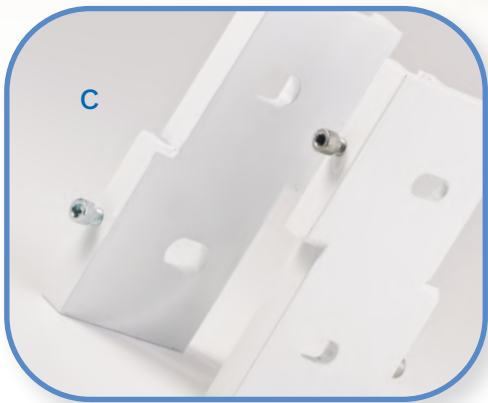


STANDARD TROLLEY

The standard trolley is required in each rail when using the portable hoist system. Sealed bearing wheels provide smooth quiet movement along the rail. Suitable for portable units up to 300kg SWL.



BRACKETS



A. STANDARD BRACKET

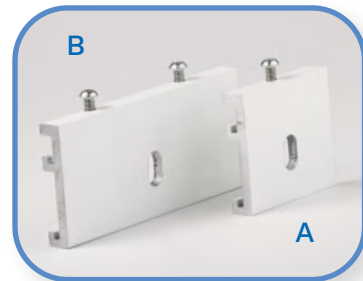
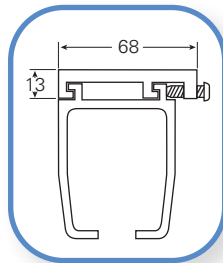
The standard bracket is used to fasten the rail to the building structure. Brackets are spaced for load distribution. Suits all rails except Voyager:

B. JOINER BRACKET

Performs the same function as standard bracket, but provides more support for rail joints.

C. CONNECTOR BRACKETS RIGHT/LEFT

Used to fasten rail to building structure while allowing reversal of the top rail tongues. Suits all rails except Voyager.



D. WALL BRACKET

Used for wall to wall installations and allows for 45° movement either way. Brackets may be mounted upright or inverted. Suits all rail types.

END FITTINGS AND OTHER ACCESSORIES

E. CATHEDRAL BRACKET

This bracket is used for suspension and lateral bracing of the rail system when cathedral type ceilings are encountered. Multi-directional allowing it to be fitted in almost any situation. SWL of 300kg.



H



H. END STOP

Fitted to each open end of rail to retain travelling trolley. Fitted with rubber bumper to reduce shock.

F



F. END CAP STANDARD

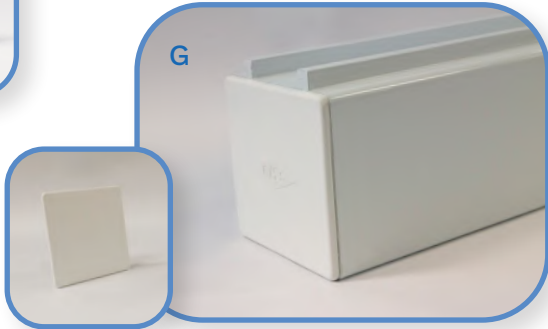
Moulded white end caps to finish off rail end and maintain aesthetically pleasing installation.

G. SUPA RAIL END CAP

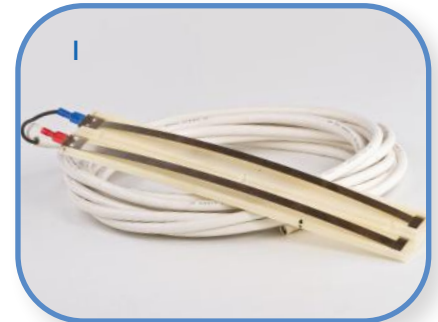
Moulded white end cap to finish off rail end on supa rail installations.



G



I

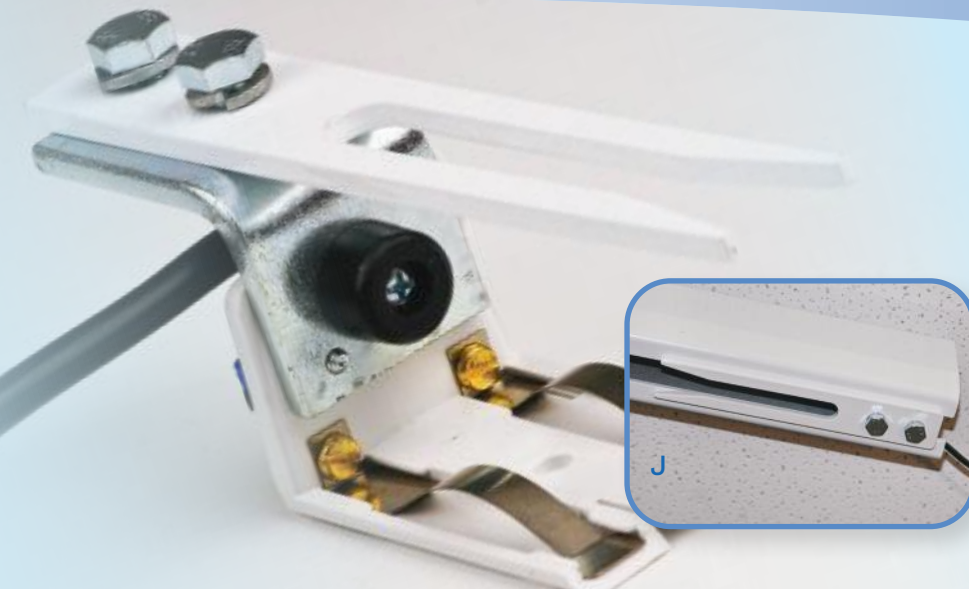


I. MID RAIL CHARGER

A mid rail charger allows the hoist to be charged at any chosen location along the rail layout.

J. END RAIL CHARGER

A charger end stop is used with hoists permanently installed in the rail. It acts as both the charger and end stop. On larger installations, an additional charger may be installed for convenience.



J



WALL POST SYSTEM

Used as an alternative to ceiling mounting, this system comes complete with all hardware and can be attached directly into dry-wall, provided that it is at least 10mm thick. Quickly installed the wall mount system offers the same stability as ceiling installations. Rails may be run at angles up to 45°. Suits all rail types and includes skirting board offsets. SWL of 450kg.

Specification	Height in mm
Wall post height	3050
Track mount	20
Skirting board offset	140
Total max height	3210



SHIMS & PACKERS

Shims and packers may be used to level rail or suspend rail below ceiling level. To suit Eclipse standard and joiner brackets. Available in 10, 12, 15, 20 and 25mm thicknesses.

Polyethylene Ceiling Packer Short 75mm

Polyethylene Ceiling Packer Long 150mm

FIXED POINT

Suitable for portable ceiling hoist units, can be fitted in overhead rails or directly to the ceiling.



FIXED POINT KIT

Unobtrusive point for vertical lifts only, using portable hoist units.

Great for chair, or chair to floor transfers in area's like family or lounge rooms. SWL of 250kg. If swinging is required, heavy duty version is available.

HEAVY DUTY SWIVEL FIXED POINT KIT

Swivelling easily through 360°, the Heavy Duty Swivel Fixed Point may also be used for swinging. Suitable for portable ceiling hoist units or other therapy equipment, the heavy duty point can be fitted in overhead rails or directly to the ceiling. SWL varies upon the application.



CEILING PLATES

Available in metal and plastic. Fitted above rail bracket against ceiling where required.

