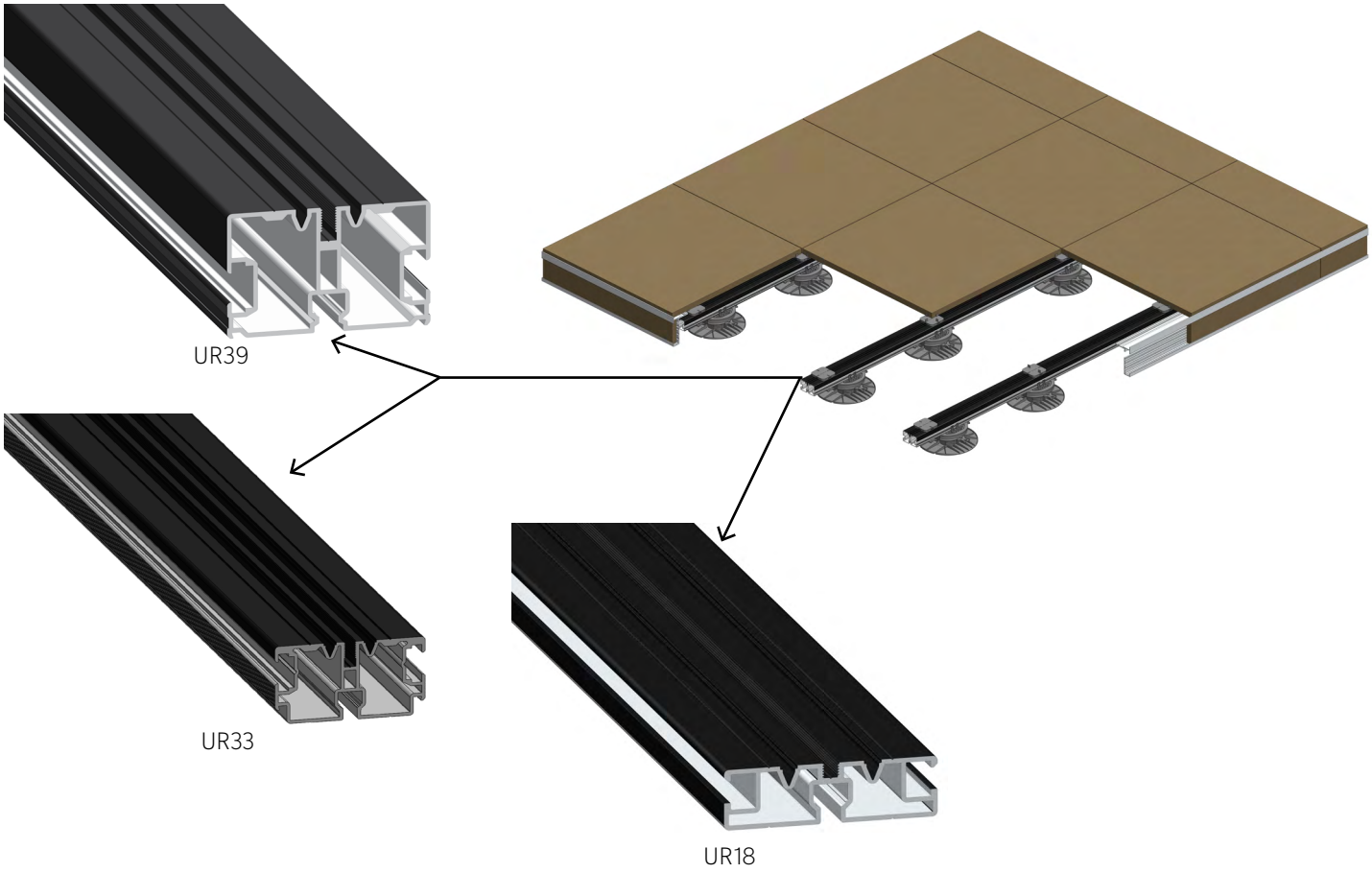
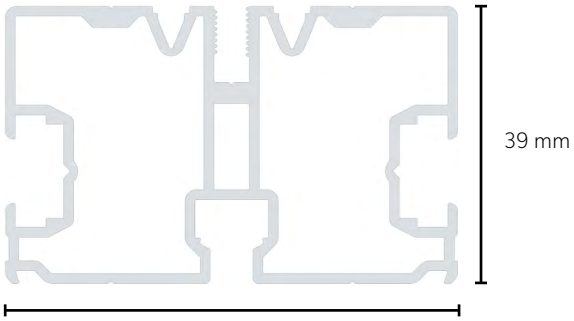
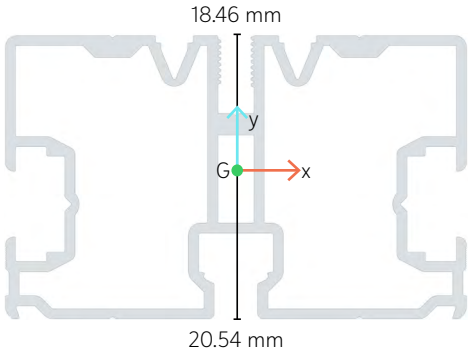
RAIL SYSTEM FOR STONEWARE DECKING



UR39 DIMENSIONS

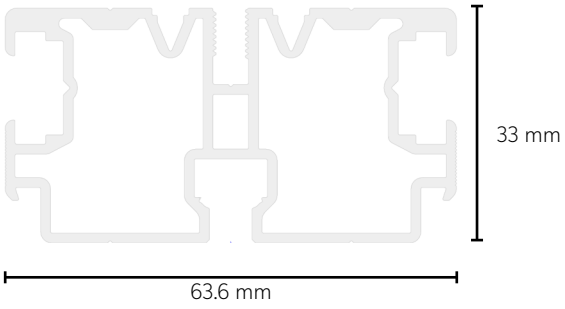


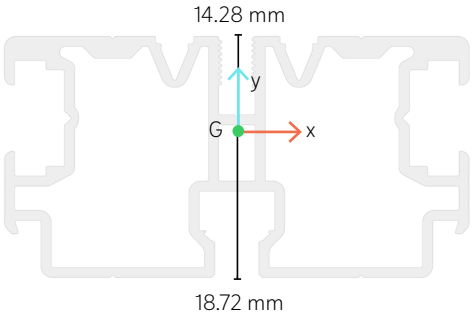


Position of the centre of gravity (G)

MOMENTS OF INERTIA :
Ixx = 96192 mm⁴
Iyy = 197151 mm⁴
Ixx/v = 4683 mm³

UR33 DIMENSIONS

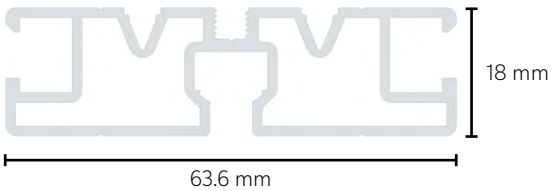


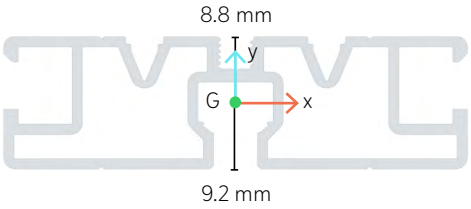


Position of the centre of gravity (G)

MOMENTS OF INERTIA :
Ixx = 62978 mm⁴
Iyy = 182068 mm⁴
Ixx/v = 3364 mm³

UR18 DIMENSIONS



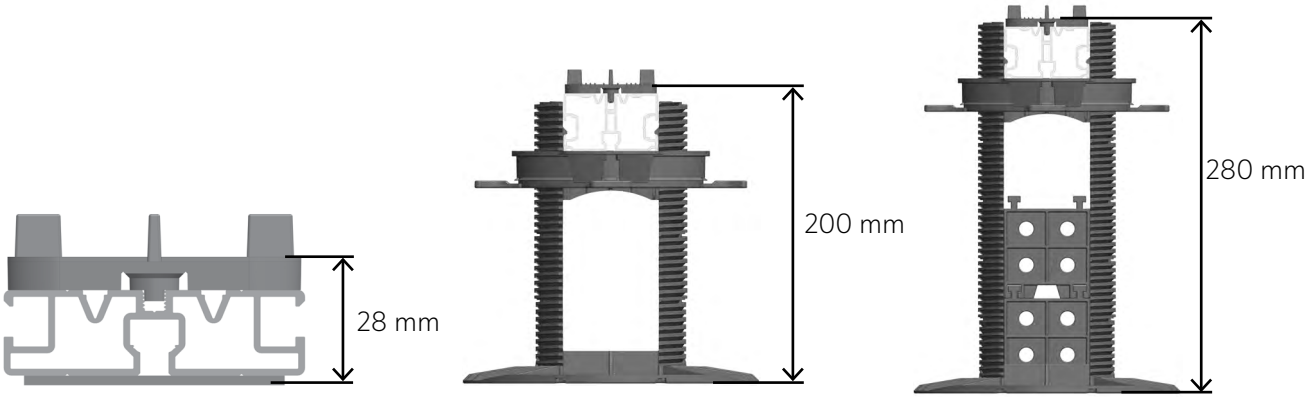


Position of the centre of gravity (G)

MOMENTS OF INERTIA :
Ixx = 13611 mm⁴
Iyy = 120029 mm⁴
Ixx/v = 1479 mm³

TECHNICAL CHARACTERISTICS

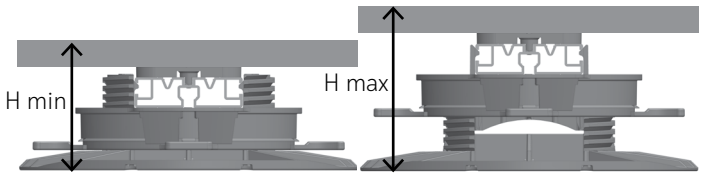
Material	Aluminium EN AW-6060
UR39 mass per metre	1.40 kg
UR33 mass per metre	1.271 kg
UR18 mass per meter	0.878 kg
Colour	Black
Thermal Treatment	T6
Tensile strength (MPa)	190
Tensile stress at yield (MPa)	150
Minimal elongation (%)	6
Tensile modulus (MPa)	70000
Coefficient of linear expansion (10^{-6}/K)	24
Fusion temperature °C	585-655
Thermal conductivity (W/mK)	160



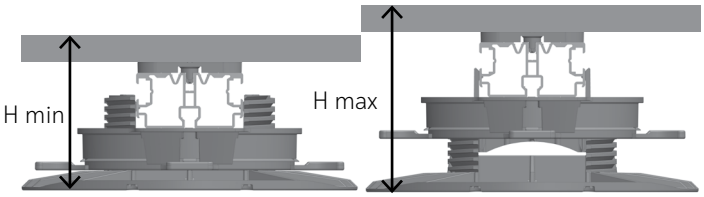
The maximum deck height is limited to 300 mm, including the stoneware slab. Please refer to your stoneware slab supplier's recommendations for the maximum height allowed for your chosen slabs.

TOP LIFT PEDESTAL COMPATIBILITY

UR18 and UR33 rails are compatible with the Top Lift base model, but cannot be used with boosters, as they may collide with the slabs.

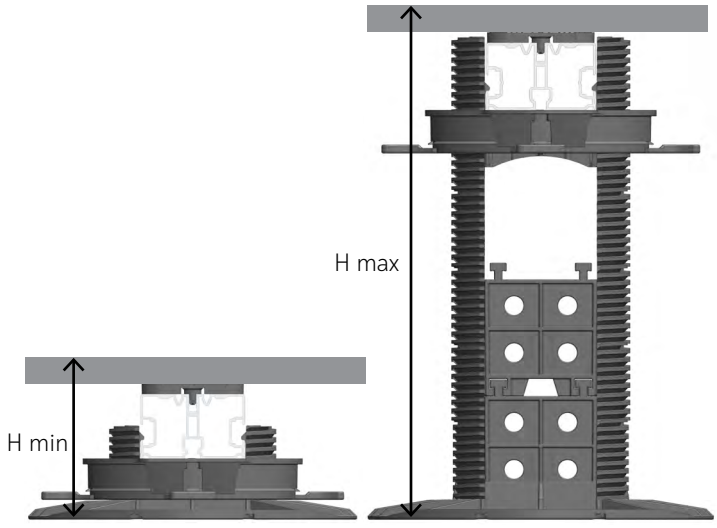


UR18 : Height 81-101 mm



UR33 : Height 96-116 mm

The UR39 rail is suitable for heights greater than 114 mm.

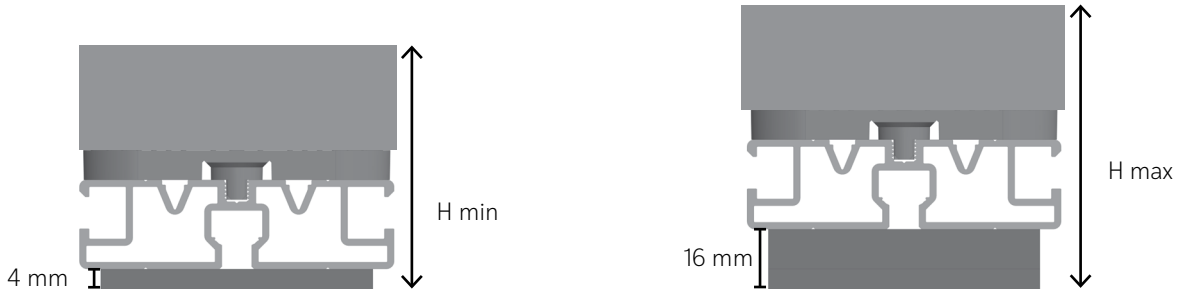


UR39 : Height 102-300 mm

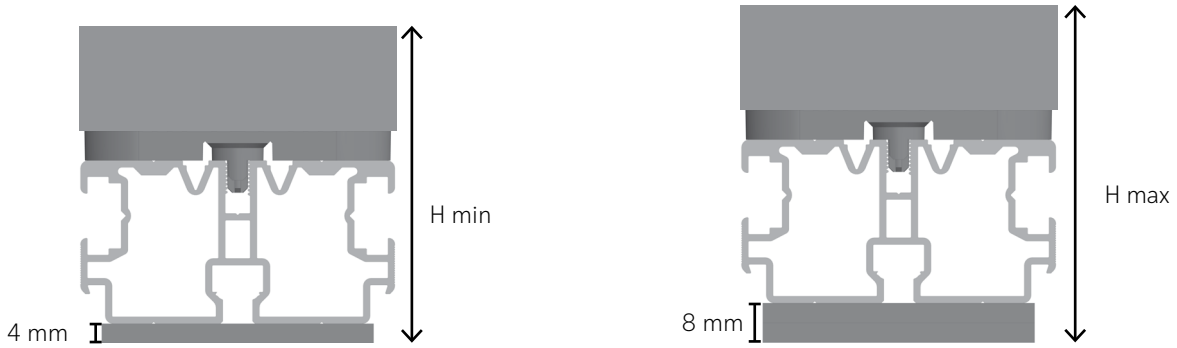
The heights shown here include a 20 mm thick slab and a 2 mm shock absorbing cushion.

DECK HEIGHTS ON HARD SURFACES

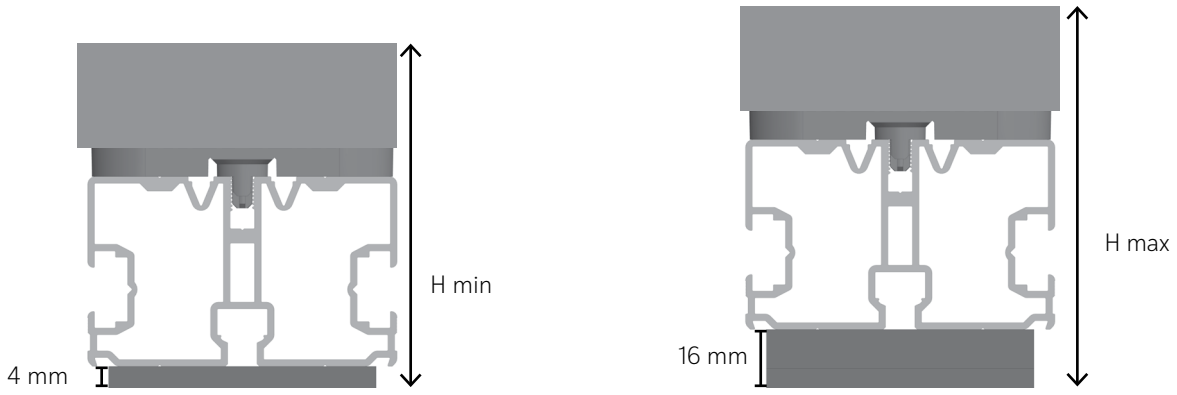
UR rails can be laid on a hard surface (such as a concrete slab) in the same way as PR rails, with 4 mm elastomer band or 8 mm elastomer spacer between the rail and the surface.



UR18 : Height 50-62 mm

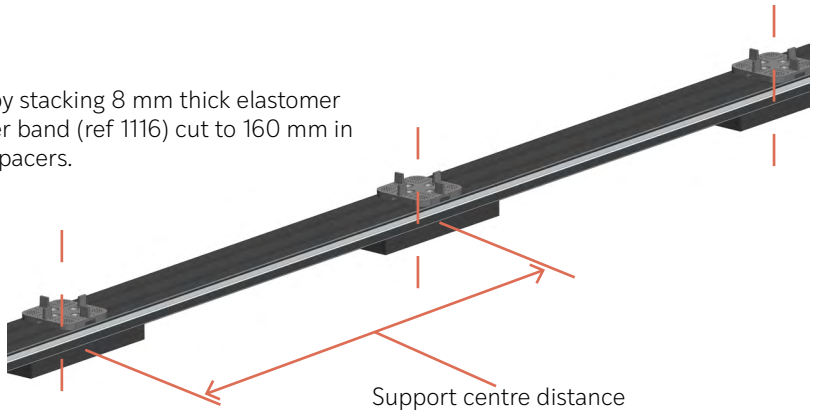


UR33 : Height 65-69 mm

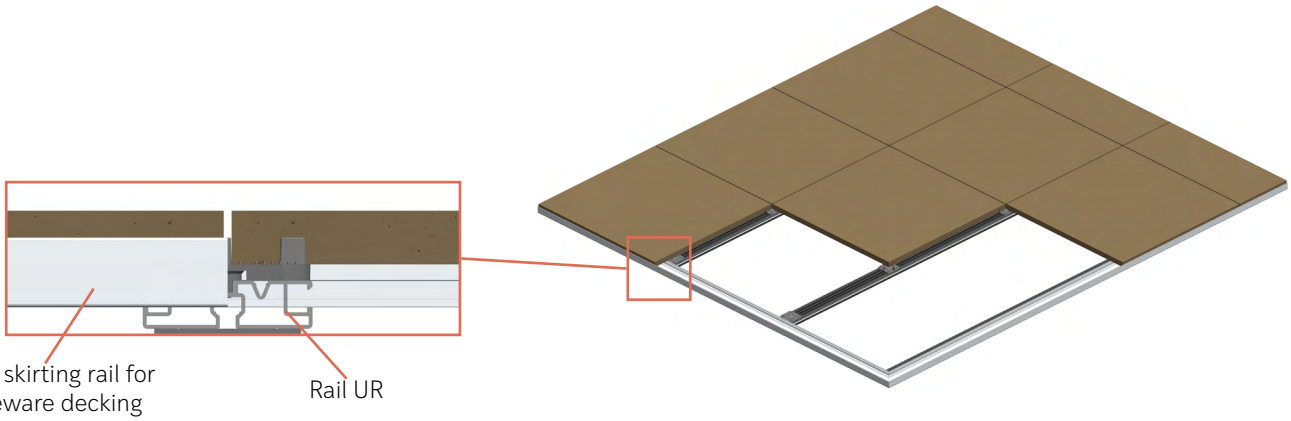


UR39 : Height 71-83 mm

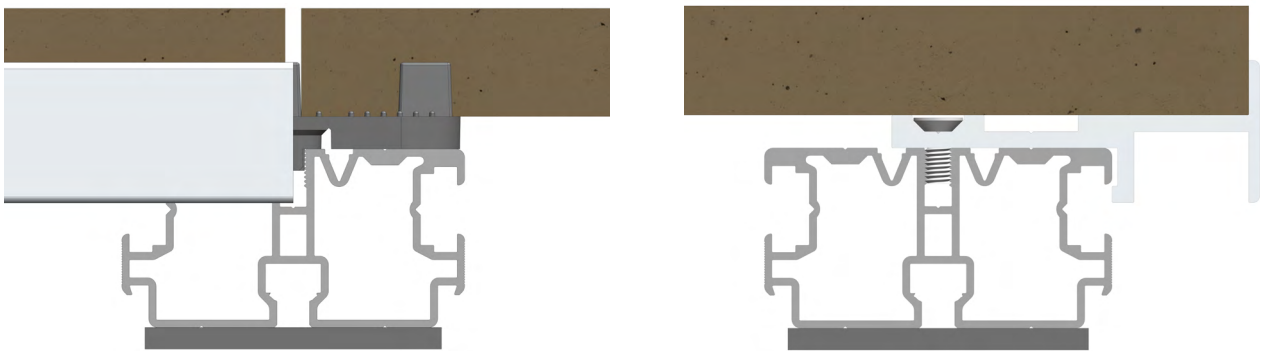
It is possible to add more height to the deck by stacking 8 mm thick elastomer spacers (ref 3140) and a 4 mm thick elastomer band (ref 1116) cut to 160 mm in length to match the length of the elastomer spacers.



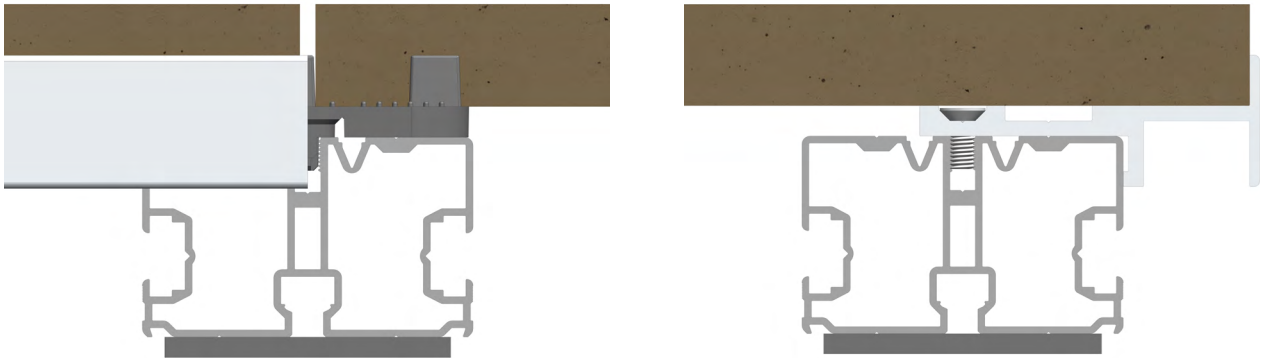
ALUMINIUM SKIRTING RAILS FOR DECKS ON HARD SURFACES



Skirting trim for stoneware decking on a hard surface is done with the upper skirting rail. The upper rail is screwed into the UR rail with a countersunk M5x12 screw (ref. 1241, see DS105 - Stoneware skirting rails)



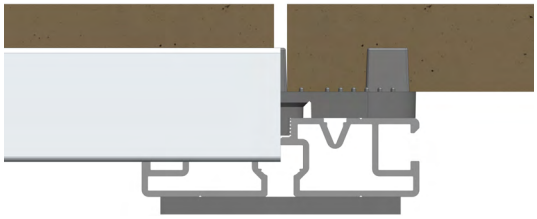
UR33

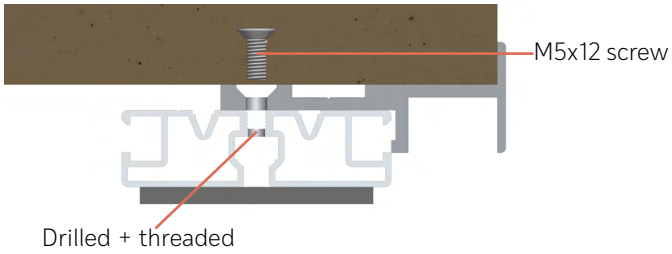


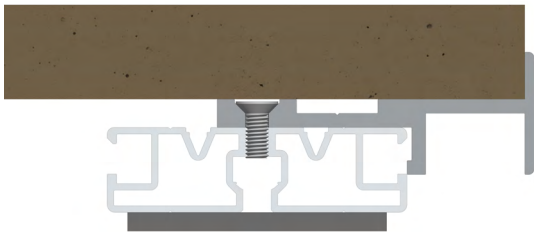
UR39

PARTICULAR CASES

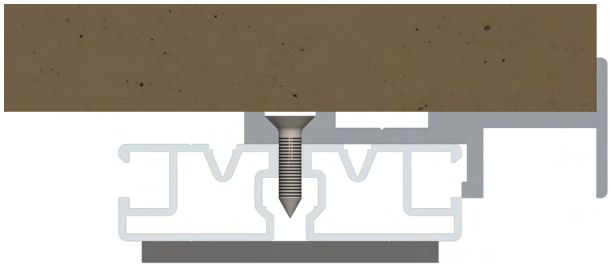
The central groove of the UR18 rails are shallower than those of the other UR rails. In order to attach the aluminium skirting rails, a hole must be pre-drilled and threaded in the UR18's central groove.





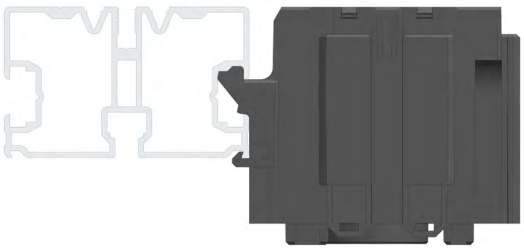


Alternative solution: Use a shorter screw or a self-drilling countersunk-head screw.

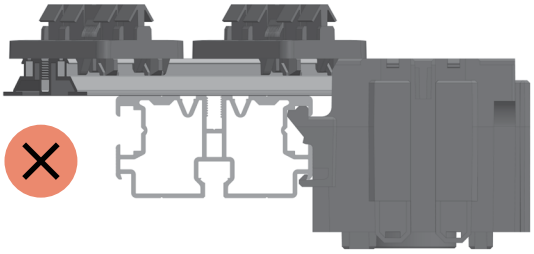


TOP CUBE COMPATIBILITY

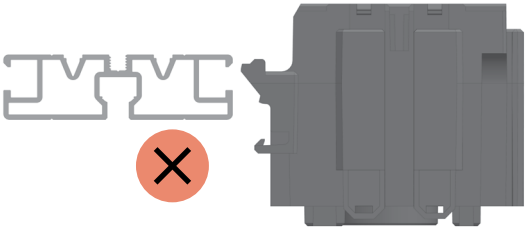
The UR39 is the only rail in the UR line that is compatible with the Top Cube.
The UR33 can be compatible when combined with a Pivoting Flat Rail.
The UR18 is not compatible with the Top Cube.



UR39 + Top Cube



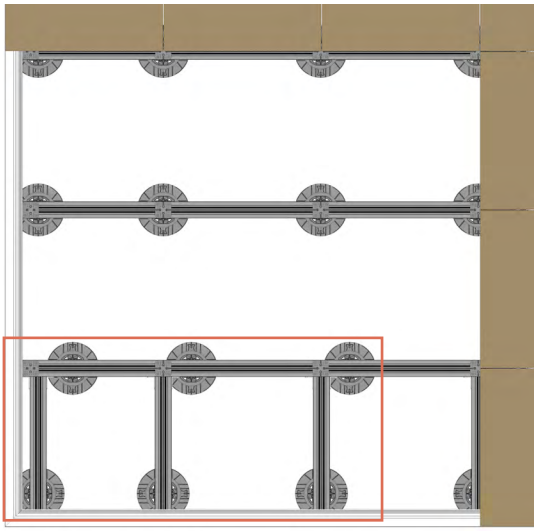
UR33 with Pivoting Flat Rail + Top Cube
(only with wooden or composite decking)

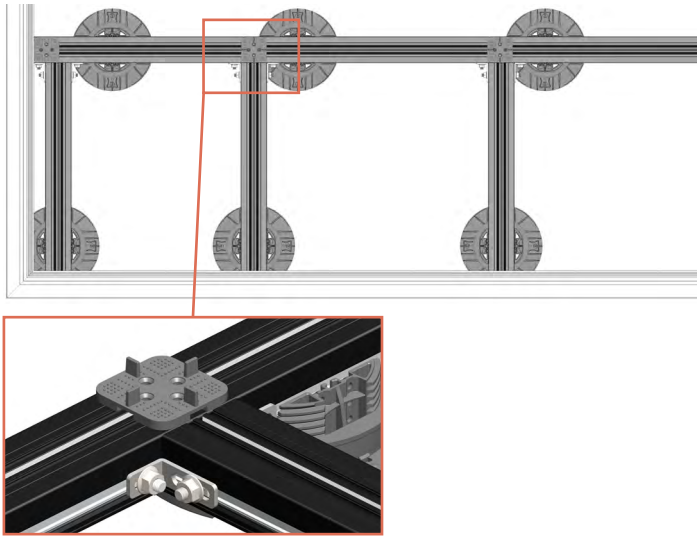


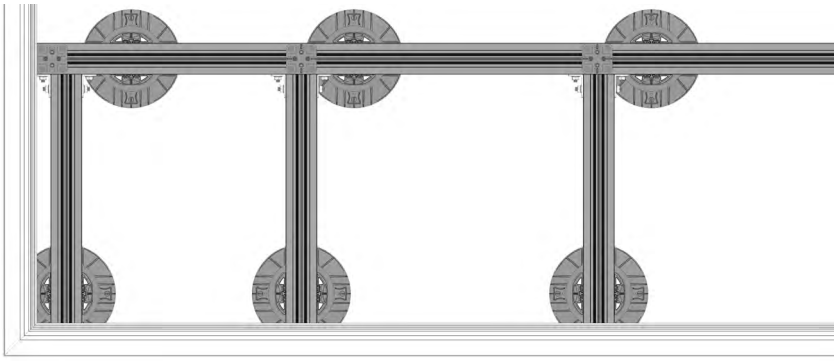
UR18 +Top Cube

ALUMINIUM TRIM FOR UR18 AND UR33

It is possible to install aluminium skirting rails without Top Cubes by placing UR rails perpendicularly. These rails are connected using kits (UR33: ref. 1503, UR18: ref. 2291) and a Top Lift pedestal positioned at the end of the rail.



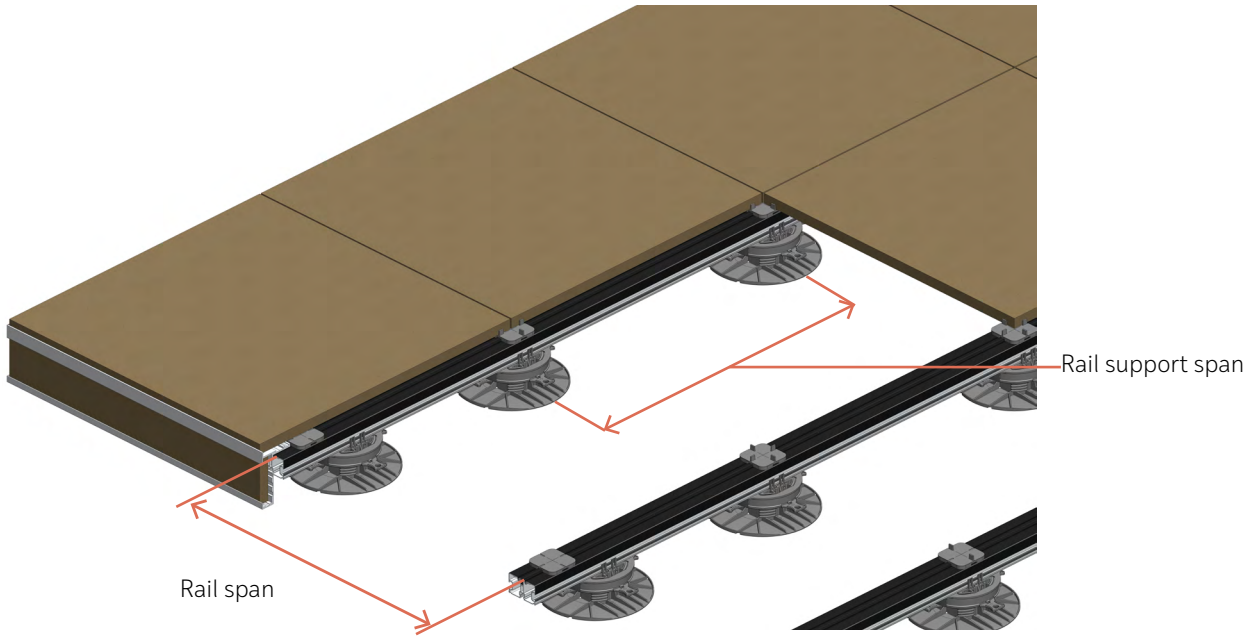




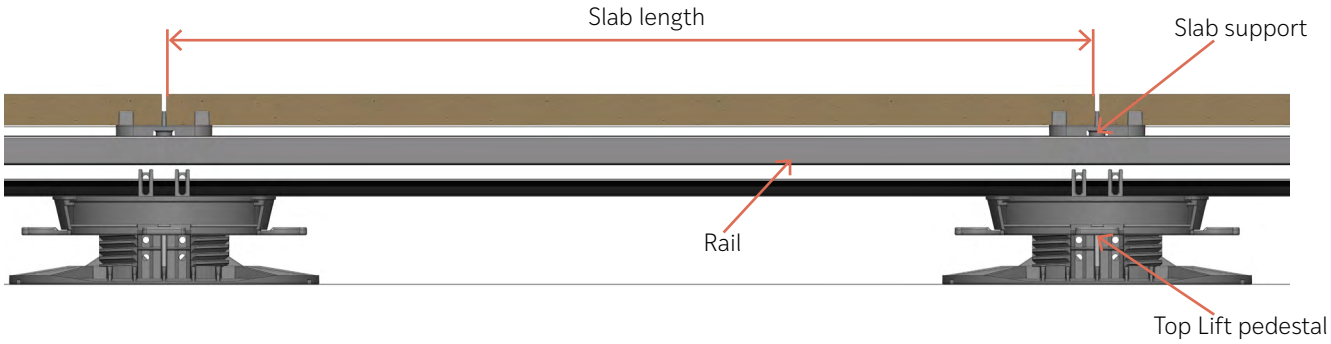
In this case, the pedestals are not positioned under the slab supports.

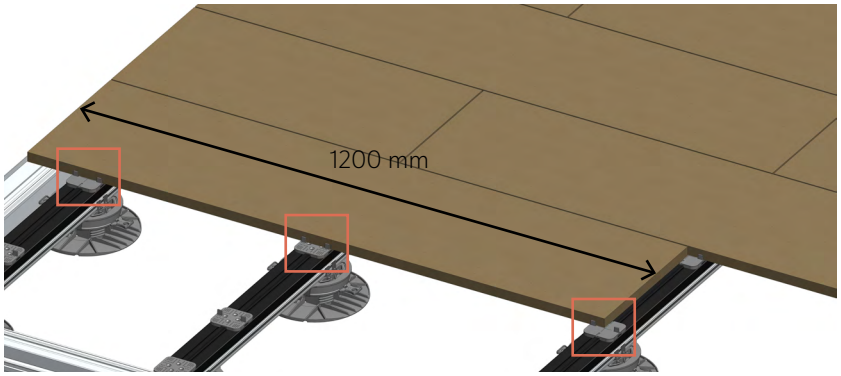
DISTANCE BETWEEN RAIL SUPPORTS

EXAMPLE WITH A SQUARE 600 X 600 MM SLAB



The distance between rails and between rail supports depends on the dimensions of the stoneware slabs being used. A Top Lift pedestal must be placed under each slab support. The slab load is distributed over the 4 slab supports and the Top Lift pedestals.

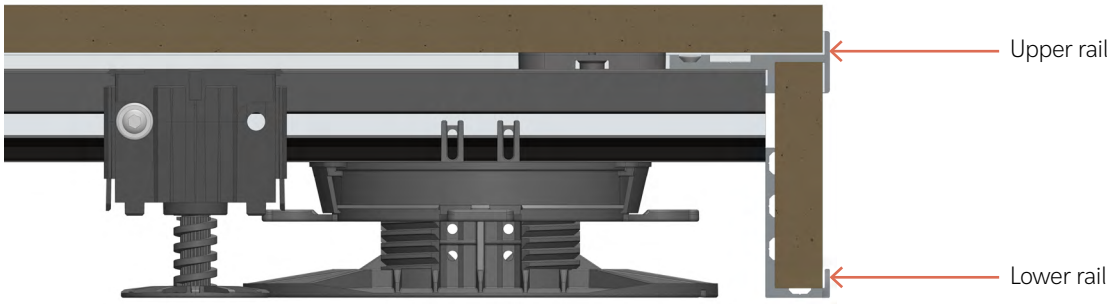




Example of a rectangular slab requiring an intermediate support

Note: Ask your stoneware slab supplier for information on the necessary positioning of supports for your choice of stoneware slabs.

EXAMPLE OF STONEWARE TRIM WITH UPPER AND LOWER RAILS



We recommend joining the trim rails over the Top Lift pestals, although joining them between two pedestals is also possible. The slab support must be fixed to each rail using M5x12mm scews.