



BUILDING PREPARATIONS

SWIMMING POOL ENCLOSURES

VERSION: 23. 2. 2020 / REVISED: 10. 1. 2021

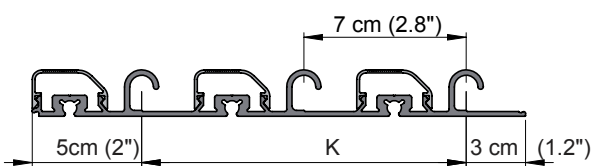
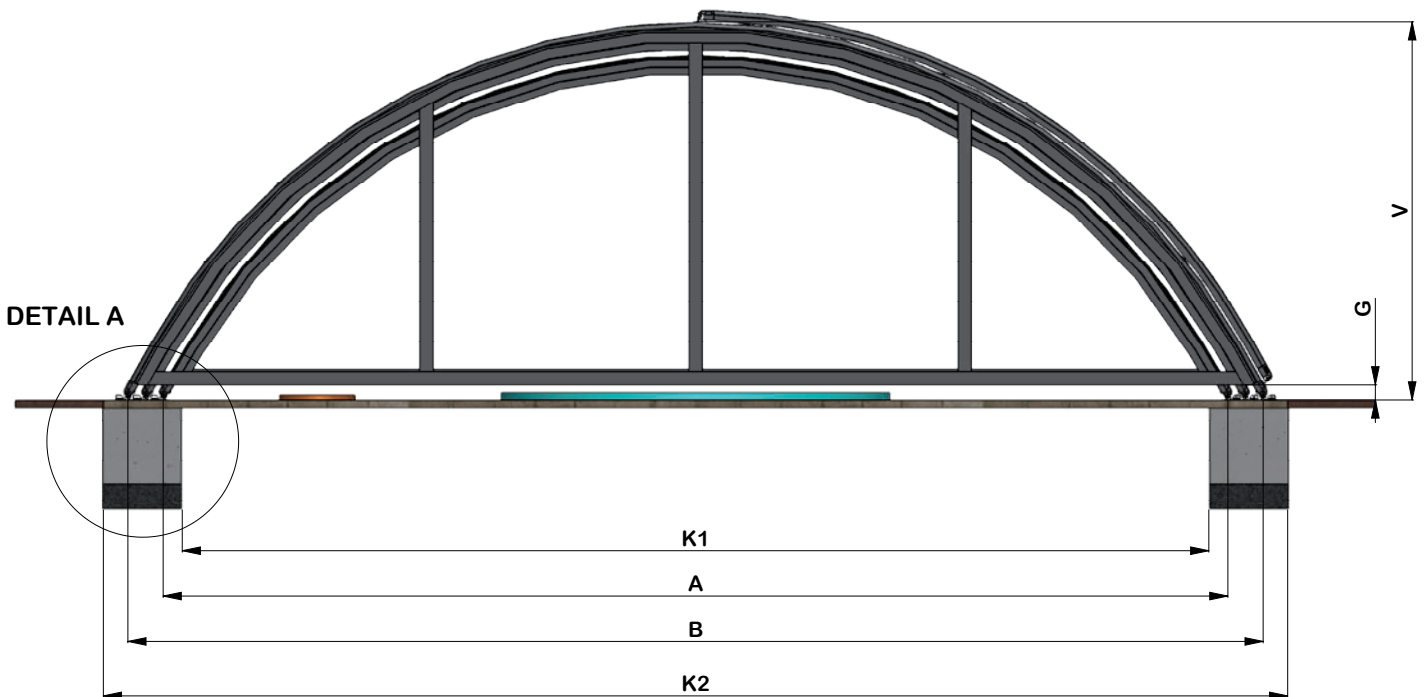


1

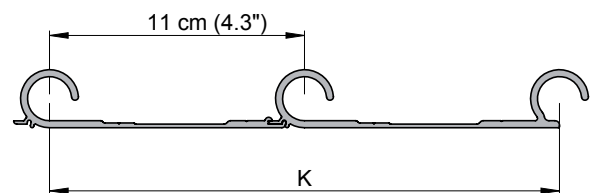
FRONT VIEW WITH A VIEW OF THE CONCRETE STRIPS

KEY:

- A** - rail spacing for the smallest module
- B** - rail spacing for the biggest module
- E** - total length of the enclosed area
- G** - elevated lower border of the front panel from the lower edge of the rail
- R** - extension of the rail behind the enclosed area
- V** - height of the biggest module
- K** - axial distance between the inner and outer rails of one side of the rail, does not specify the actual maximum width of the rail
- K1** - inner spacing of the concrete strip
- K2** - outer spacing of the concrete strip
- K3** - width of the concrete strip



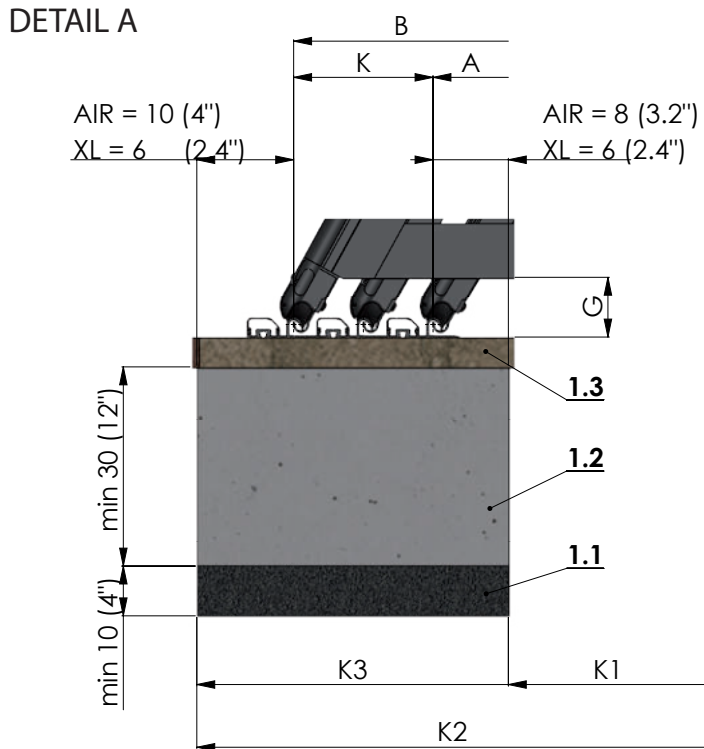
RAIL AIR



RAIL XL

THE EXACT DIMENSIONS OF THE RAILS ARE ALWAYS PART OF THE SCHEMATIC DRAWING

ALL DIMENSIONS ARE GIVEN IN CENTIMETRES (inches in brackets).



RAIL SPACING:

AIR RAILS:

DOUBLE RAILS	K = 7 cm (2.8")
TRIPLE RAILS	K = 14 cm (5.5")
FOUR RAILS	K = 21 cm (8.3")
FIVE RAILS	K = 28 cm (11")
SIX RAILS	K = 35 cm (14")
SEVEN RAILS	K = 42 cm (16.5")

RAILS XL:

DOUBLE RAILS	K = 11 cm (4.3")
TRIPLE RAILS	K = 22 cm (8.7")
FOUR RAILS	K = 33 cm (13")
FIVE RAILS	K = 44 cm (17.5")
SIX RAILS	K = 55 cm (22")
SEVEN RAILS	K = 66 cm (26")

1.1 Gravel (grade) 8-16 mm (0,3-0,6"), height of the sub-base min. 10 cm (4")

1.2 Concrete base

(concrete strips, concrete slab)

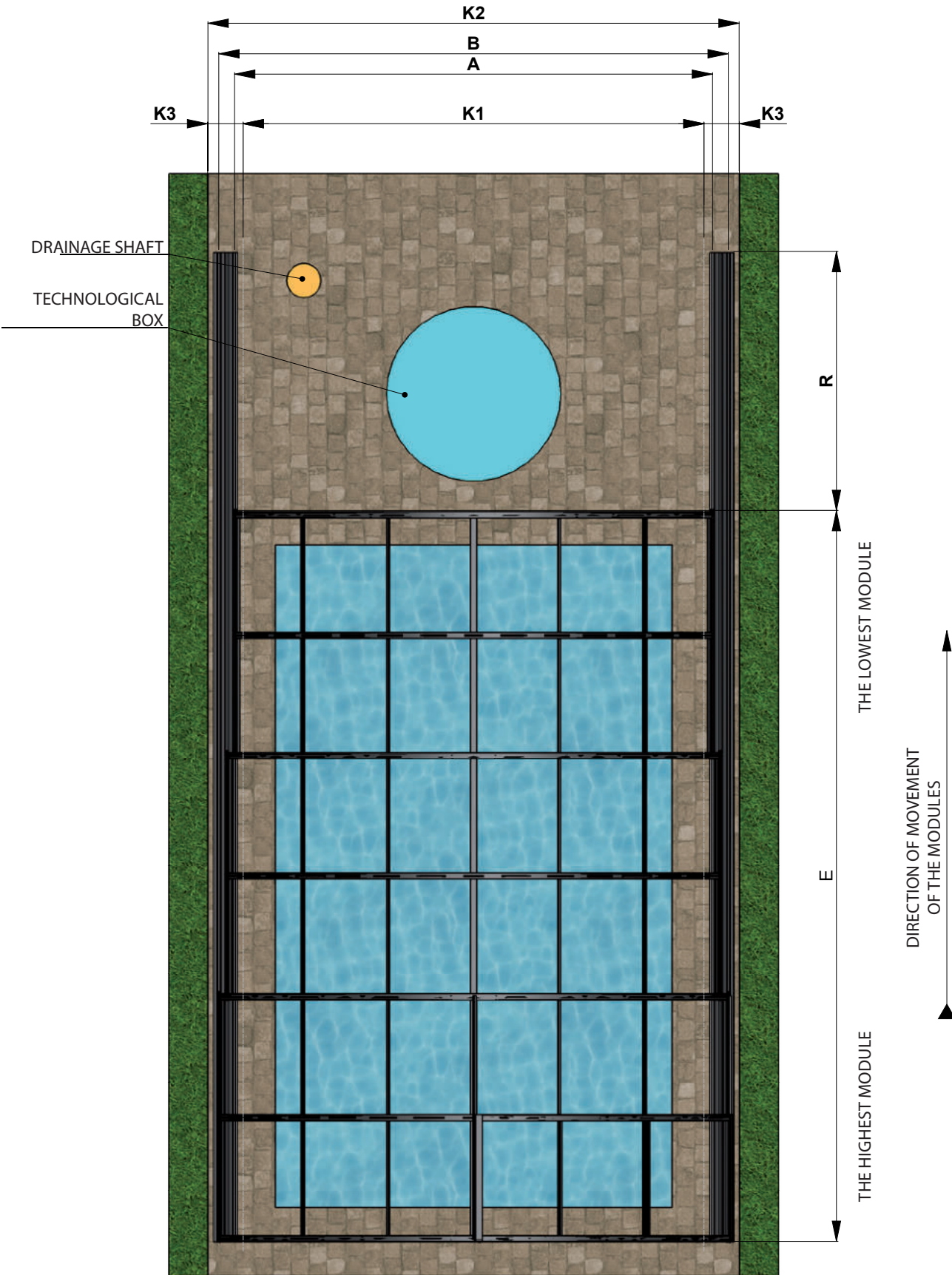
Carried out with a concrete base:

- carried out of gravel backfill (see 1.1)
- width of the base (concrete strips):
 $K3 = \text{rail width "K"} + 18 \text{ cm (7")}$ - valid for AIR rails
 $K3 = \text{rail width "K"} + 12 \text{ cm (5")}$ - valid for XL rails
- length of the base = length "E" + "R" + 10 cm (4") on every side
- must be used a min. concrete mix type C16/20 S2 (S3)
- concrete strips min. thickness of 30 cm (12") (we recommend carrying out the strip to a non-freezing depth of 60 cm (24")), concrete slab min. thickness of 15-20 cm (6"-8")
- reinforced Kari meshing (100 x 100 x 6 mm) or wire (\varnothing 6 mm) - locally reinforced at 1/3 of the height of the slab
- **the base must be clean, smooth, horizontal - flatness under rails +/- 2 mm/2 m (+/- 0.01"/7')**

1.3 Final surface

- must be firmly attached to the concrete base (foundation)
- paving is the most suitable variant of final surface - must be firmly attached to the concrete base (it must not be loose sand or gravel)
- other suitable final surfaces are all solid materials designed for this purpose which are firmly attached to the concrete base

FLOOR PLAN



KEY:

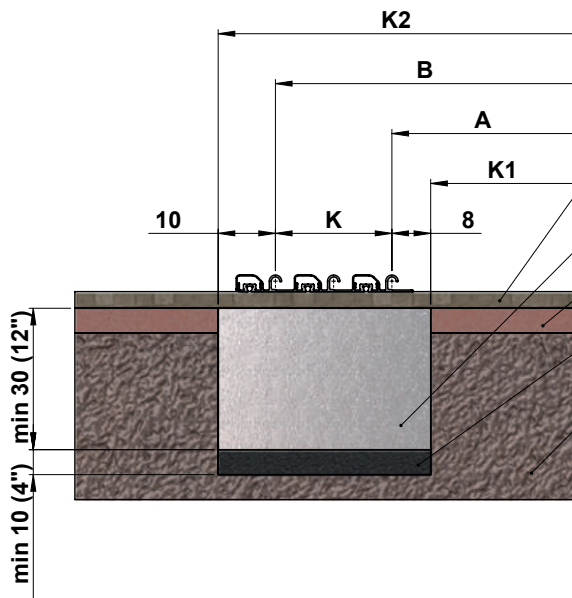
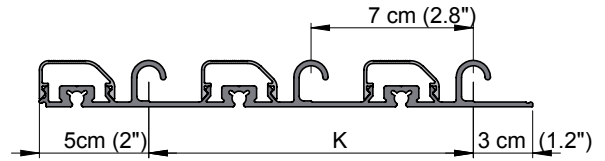
- A** - rail spacing for the smallest modules
- B** - rail spacing for the biggest modules
- E** - total length of enclosure area
- R** - extension of the rail behind the enclosed area
- K1** - inner spacing of the concrete strip
- K2** - outer spacing of the concrete strip
- K3** - width of the concrete strip

2

SUB-BASE – FOR AIR RAILS

ALL DIMENSIONS ARE GIVEN IN CENTIMETRES.

2.1 Rail on the final foundation (paving)



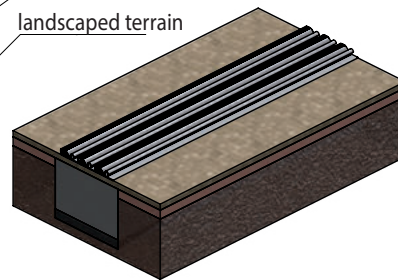
the final surface must be firmly attached to the concrete base

concrete mix type C16/20 S2 (S3)
a minimum thickness of 30 cm (12") for a concrete strip or concrete slab min. thickness of 15-20 cm (6-8")

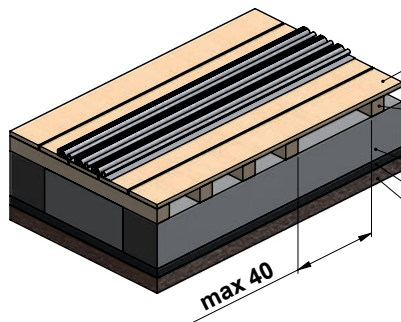
underlay according to the final surface the manufacturer selected

gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain



2.2 Rail on the final foundation (board)



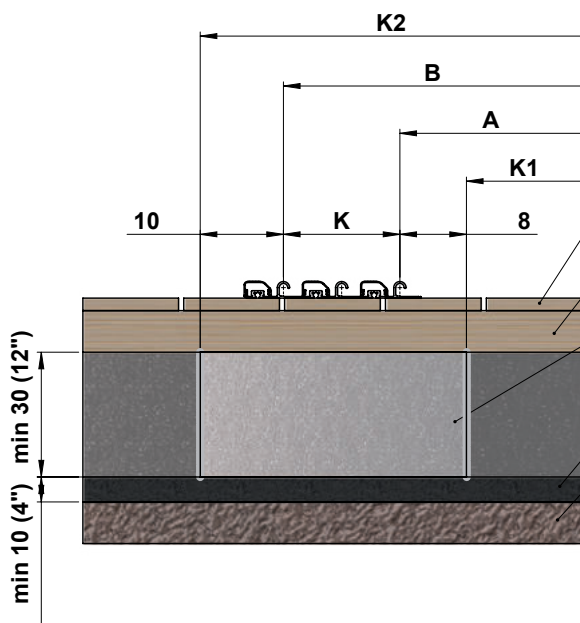
the final surface must be firmly attached to the underlying beams

the underlying beams must be firmly attached to the concrete foundation orientation of supporting beams perpendicular to the rails (not lengthwise!), max. distance of 40cm (16"), local concise spacing under the rails at 10-15 cm (4-6")

concrete mix type C16/20 S2 (S3)
a minimum thickness of 30 cm (12") for a concrete strip or concrete slab min. thickness of 15-20 cm (6-8")

gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain



the final surface must be firmly attached to the underlying beams

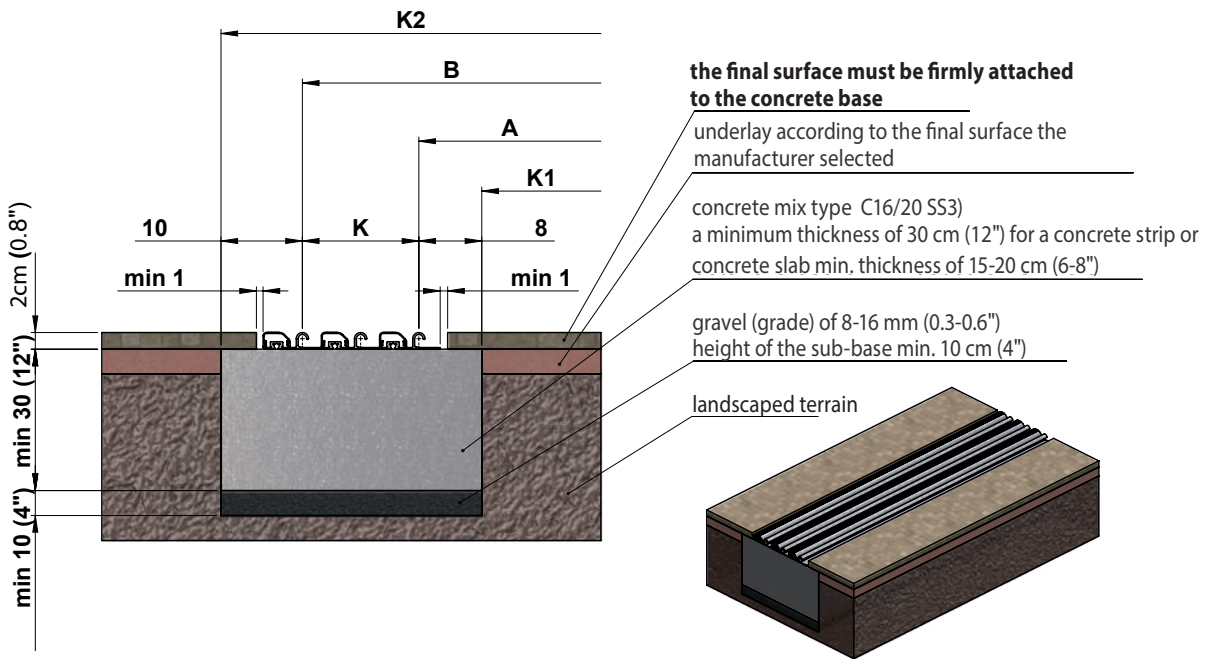
the underlying beams must be firmly attached to the concrete foundation

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gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain

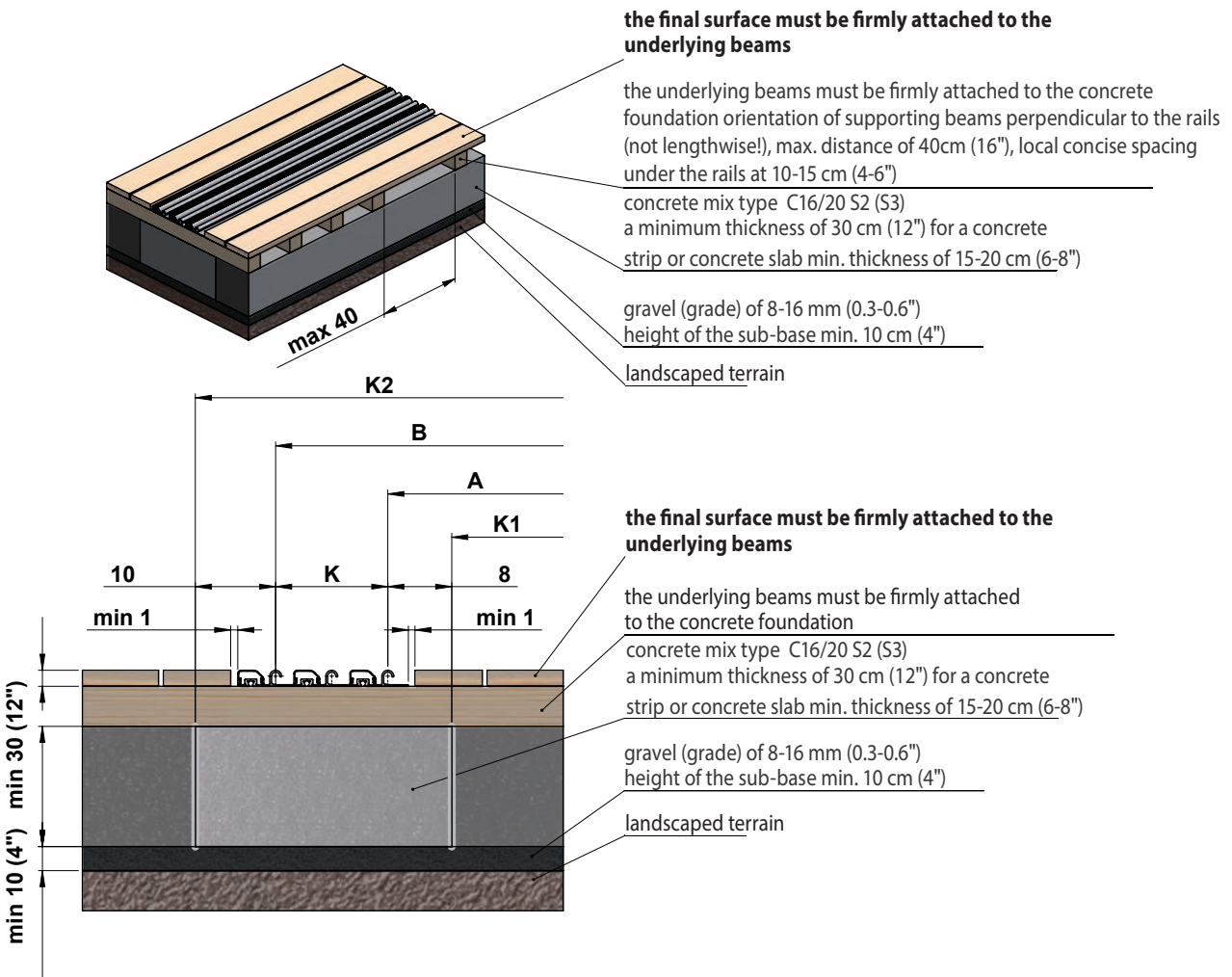
2.3 Rail embedded in paving (placed on a concrete strip, slab)



2.4 Rail embedded in a wooden grid

Option 1: Lay the final surface after laying the rails (recommended)

Option 2: Remove the final surface around the rails

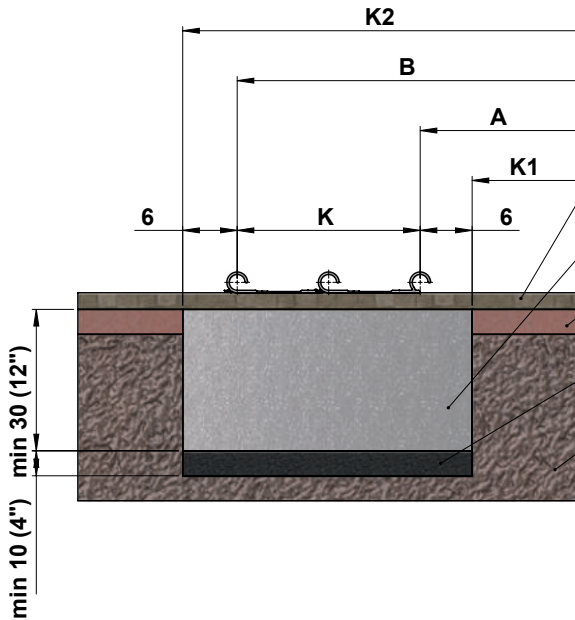
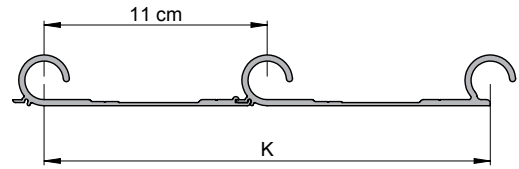


3

SUB-BASE – FOR XL RAILS

ALL DIMENSIONS ARE GIVEN IN CENTIMETRES

3.1 Rail on the final foundation (paving)



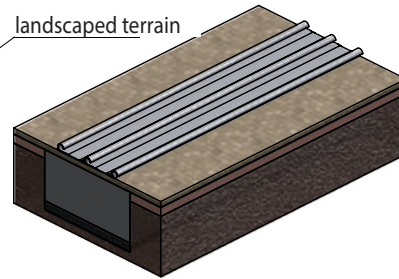
the final surface must be firmly attached to the concrete base

concrete mix type C16/20 S2 (S3)
a minimum thickness of 30 cm (12") for a concrete strip or concrete slab min. thickness of 15-20 cm (6-8")

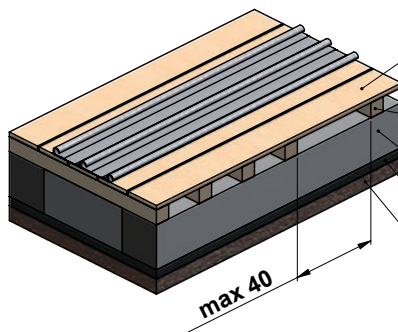
underlay according to the final surface the manufacturer selected

gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain



3.2 Rail on the final foundation (board)



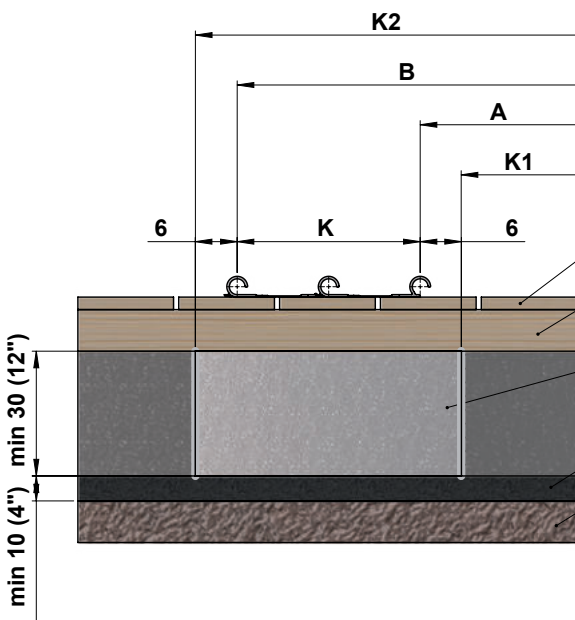
the final surface must be firmly attached to the underlying beams

the underlying beams must be firmly attached to the concrete foundation orientation of supporting beams perpendicular to the rails (not lengthwise!), max. distance of 40 cm, local concise spacing under the rails at 10-15 cm

concrete mix type C16/20 S2 (S3)
a minimum thickness of 30 cm (12") for a concrete strip or concrete slab min. thickness of 15-20 cm (6-8")

gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain



the final surface must be firmly attached to the underlying beams

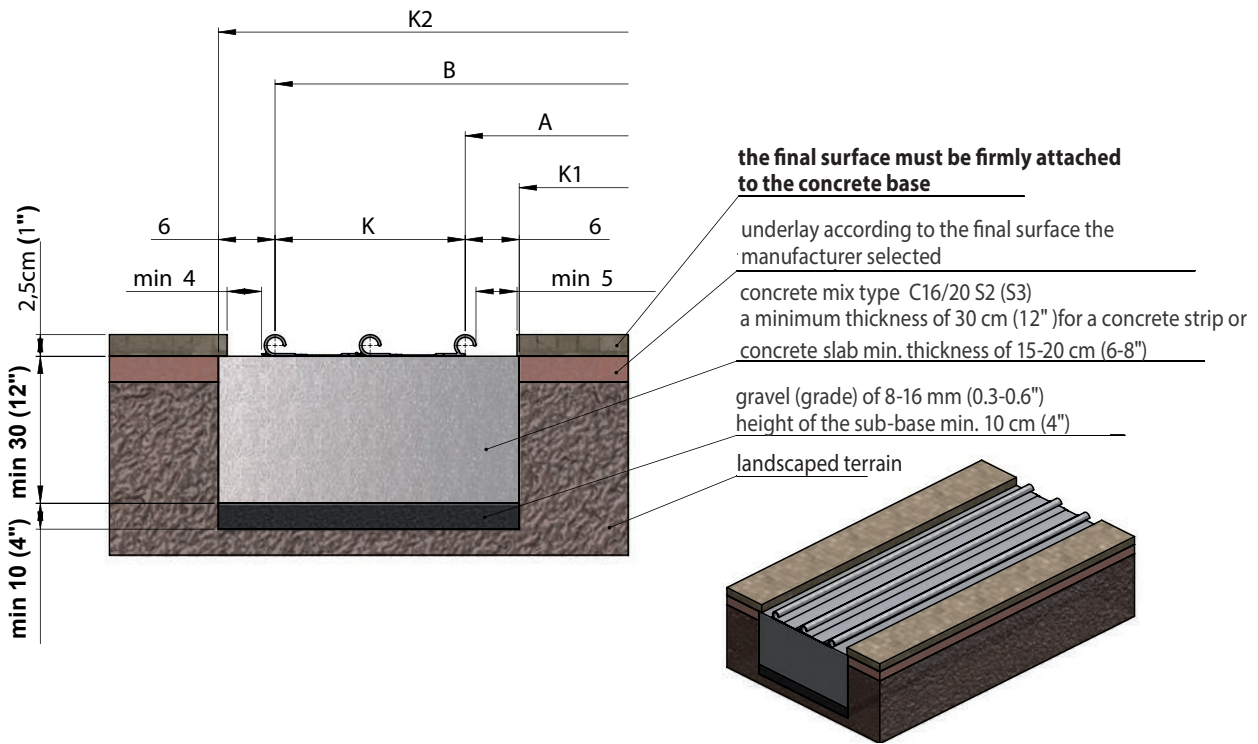
the underlying beams must be firmly attached to the concrete foundation

concrete mix type C16/20 S2 (S3)
a minimum thickness of 30 cm (12") for a concrete strip or concrete slab min. thickness of 15-20 cm (6-8")

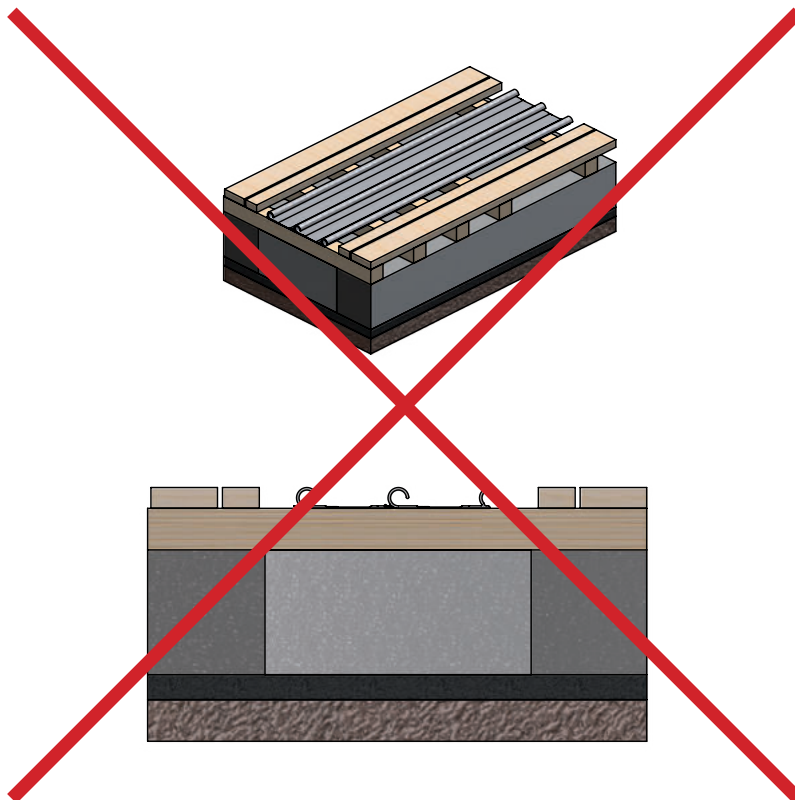
gravel (grade) of 8-16 mm (0.3-0.6")
height of the sub-base min. 10 cm (4")

landscaped terrain

3.3 Rail embedded in paving (placed on a concrete strip, slab)



3.4 Embedding XL rails to boards is NOT POSSIBLE



4

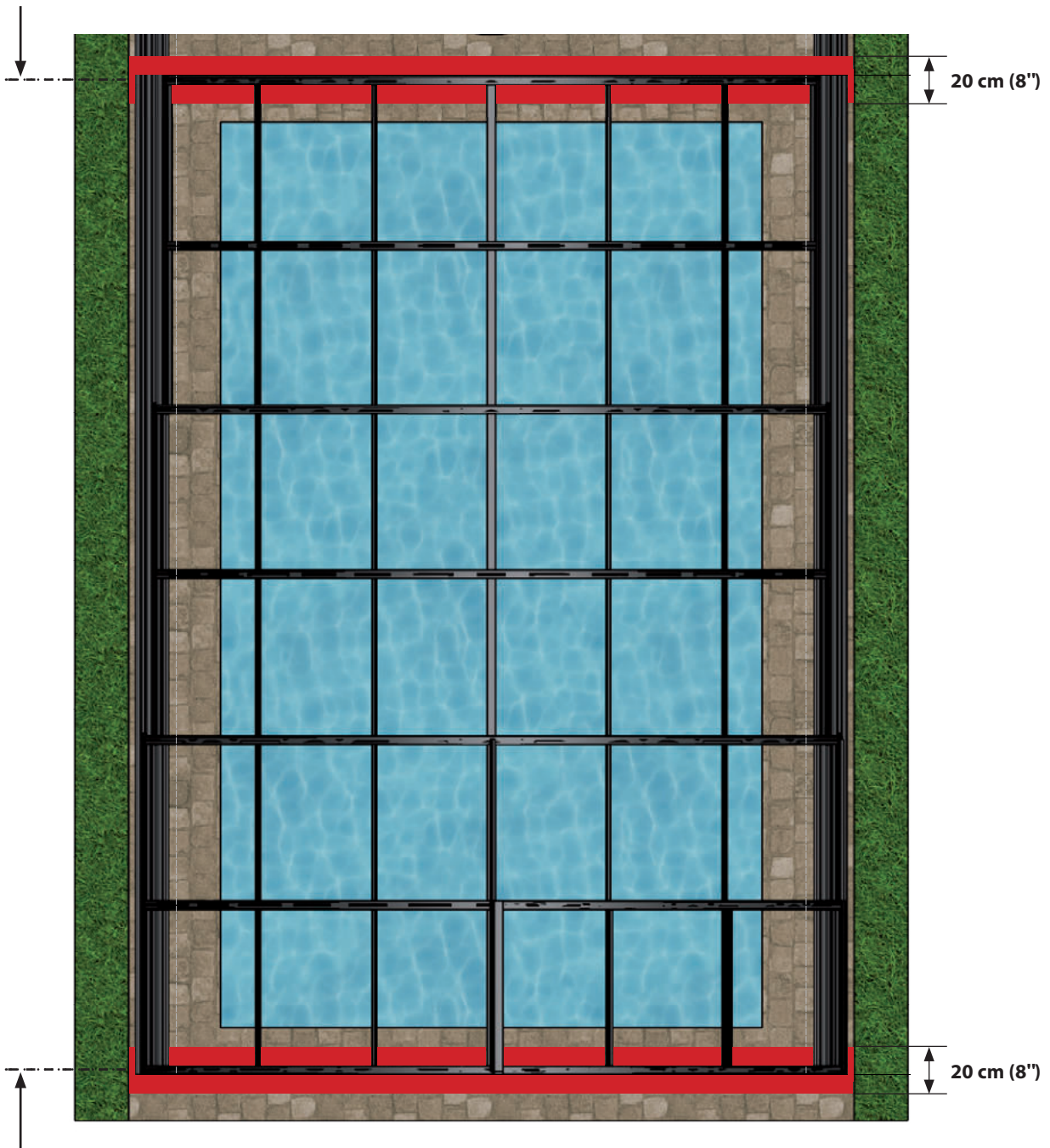
SUB-BASE FOR THE ENTIRE ENCLOSURE

- make concrete strips for both panel locks
- concrete strips width of 20cm (8") and a min. depth of 30cm (12")
- concrete mix type C16/20 S2 (S3)
-

valid for enclosures:

- with a hinged door in the panel (front or rear)
- with an enclosure width B > 400 cm (13')

axis line = outer edge of the enclosure



axis line = outer edge of the enclosure

Notes:

A series of 25 horizontal dotted lines for writing notes.

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