

Podio (Max Compact Exterior) Balcony Floor Panel

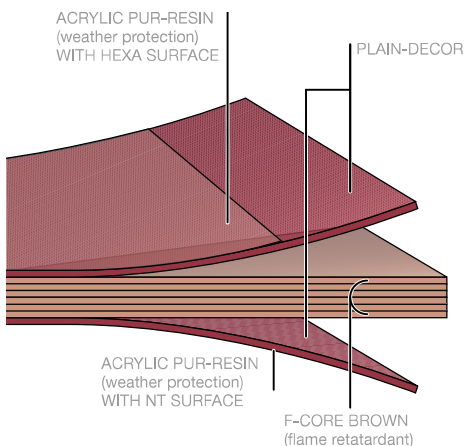


Fig. 124



SURFACE HEXA

Fig. 125



STRUCTURE OF BALCONY FLOOR PANEL

Fig. 126

MATERIAL DESCRIPTION

The Podio (Max Compact Exterior) balcony floor panel is a high-quality construction product that is perfect for permanent use on balconies, loggias, staircases, landings and the like because of its anti-slip hexagon surface among other things.

Max Compact Exterior panels are duromer high-pressure laminates (HPL) conforming to EN 438-6 Type EDF with additional, extremely effective, weather protection. This weather protection is made from double hardened Acrylic-Polyurethan-resins. They are produced in lamination presses at great pressure and high temperature Max Compact Exterior panels carry the necessary CE label for applications in the construction sector.

SURFACE

Front side: NH - Hexa
Rear side: NT

DECORS

two-sided; see our valid Max Compact Exterior range of decors or at www.fundermax.at

ANTI-SLIP CLASS

R10 in accordance with DIN 51130

FORMAT

on request or on our website - www.fundermax.at - you may find the up-to-date information.

XL = 4100 x 1854 mm = 7.6 m²
Tolerances +10 - 0 mm (EN 438-6, 5.3)

Panel formats are production formats. If exact dimensions and angles are necessary, we recommend an all-sided blank. Depending on the method of trimming, net size is reduced by ca. 10 mm.

CORE

F-Quality, flame-retardant, colour brown

THICKNESS

6.0 - 20.0 mm
(depending on the static requirement)

Thicknesses	Tolerances (EN 438-6.5.3)
6.0 - 7.9 mm	±0.4 mm
8.0 - 11.9 mm	±0.5 mm
12.0 - 15.9 mm	±0.6 mm
16.0 - 20.0 mm	±0.7 mm

NOTE

FOR HORIZONTAL USE ONLY.

BASICS

Podio (Max Compact Exterior) balcony floor panels can be screwed or glued to a variety of suitable substructures with an incline.

The substrate and substructure must be sufficiently load-bearing. A functioning rear ventilation with a minimum distance of 25 mm from the substrate must be ensured. Grass, ballast, gravel or other moisture-storing surfaces are unsuitable! Ensure sufficient drainage of the substrate.

During construction and installation it is important to ensure that the material is not subjected to accumulating moisture. This means that the panels must always be able to dry off. Generally, balconies should be provided with an incline of 1.5 - 2%.

Due to the material properties of Max Compact Exterior balcony floor panels, suitable room for expansion must be taken into account. The joints between panels must be at least 8 mm wide. For substructures that run parallel to joints,

the gaps between the panels must always be placed above a substructure, and can additionally be held at the same height by suitable joints, such as tongue and groove joints for example, that allow the appropriate room for expansion. Elastic intermediate layers between the panel and the substructure, as well as between parts of the subconstruction, that allow a tolerance of greater than ± 0.5 mm are absolutely to be avoided. When installing Max Compact Exterior balcony floor panels on a wooden substructure with screws, fixed and sliding points must be formed. Pay attention to the advises on pages 50/51. The wood-substructure has to be constructed according to the national standard specifications (wood moisture $15\% \pm 3$). **Pay attention to a qualified structural or chemical wood preservation!** Suitable rear-ventilation is to be ensured so that the panels can be conditioned on both sides. The panels should not be allowed to rest fully on the ground below. The substructure is to be protected against corrosion regardless of the material or system used.

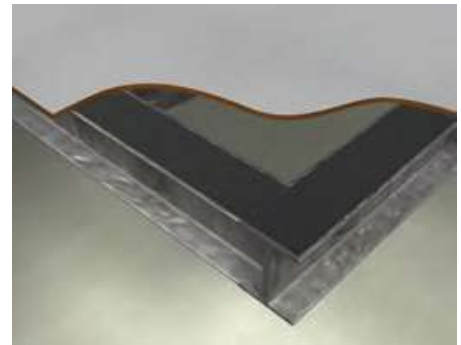
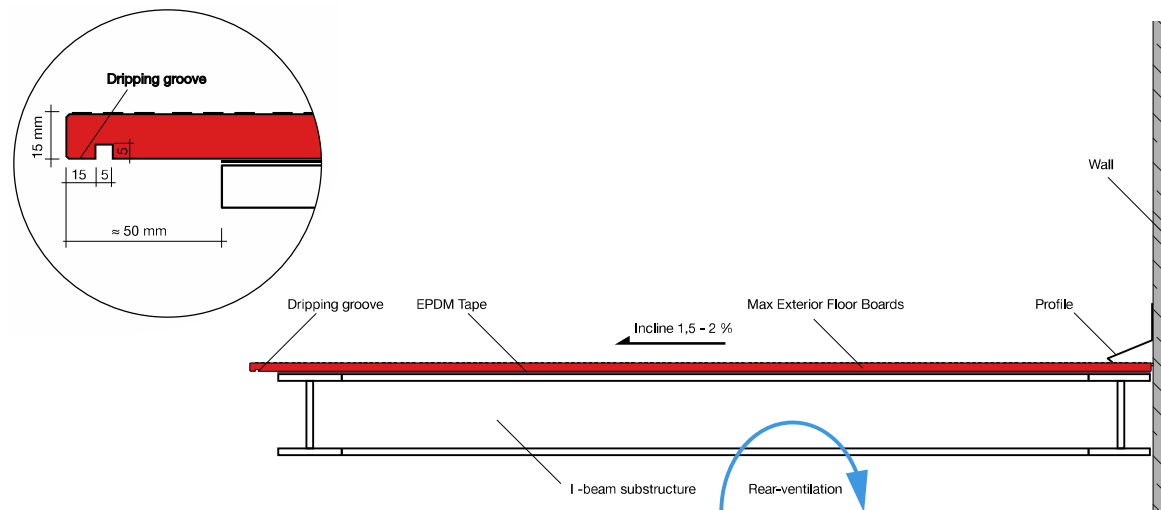


Fig. 127



VERTICAL SECTION: PRINCIPLE OF VENTILATION AND INCLINE

Fig. 128

Guidelines for laying the Podio floor panels

FIXING DISTANCES

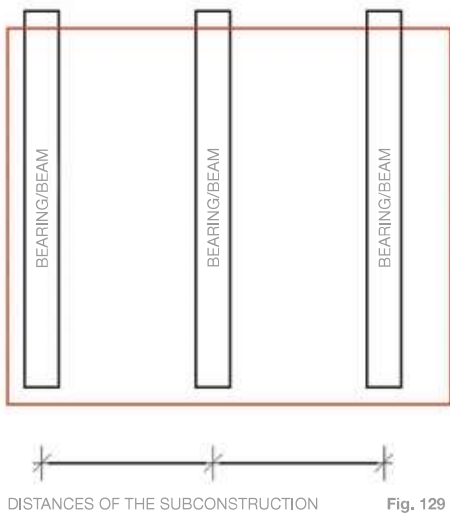
The substructure battens must have a width of ≥ 60 mm, in the joint area ≥ 100 mm.

EDGE DISTANCES

For installation with screws, the edge distance can be 20 - 100 mm.

PANEL JOINTS AND JOINT FORMATION

The joints must be at least 8 mm wide so that changes in size can take place without hindrance. The joints are filled with a permanently elastic sealant. A permanently elastic rubber band can also be placed in the groove (marked yellow in the drawings and 3D animation).



MAX. ALLOWABLE DEFLECTION OF 1/300	TRAFFIC LOAD kN/m ²		
	3.0	4.0	5.0
PANEL THICKNESS	SUPPORT SPACING IN mm		
	A \leq 500		
12 mm	X	-	-
16 mm	X	X	X
18 mm	X	X	X
20 mm	X	X	X
	A \leq 600		
16 mm	X	X	-
18 mm	X	X	X
20 mm	X	X	X
	A \leq 800		
20 mm	X	X	-

X = ALLOWABLE

Table 22

PLEASE NOTE THE MAXIMUM SUPPORT SPACING IN ACCORDANCE WITH THE GENERAL BUILDING INSPECTORATE APPROVAL Z-50.4-377 FOR APPLICATIONS REQUIRING APPROVAL IN GERMANY.

THE CURRENT VERSION OF THE APPROVAL CAN BE FOUND ON THE INTERNET AT WWW.FUNDERMAX.AT.



BALCONY FLOOR PANEL SITE IN ST. VEIT/GLAN, AUSTRIA

Fig. 130



SUBSTRUCTURE/BEAMS

Fig. 131



INCLINE AND PANEL JOINTS

Fig. 132



EXTERNAL CORNER AND EDGES

Fig. 133



INCLINE

Fig. 134



Mounting of Podio (Max Compact Exterior) balcony floor panels mechanical non visible fixed

FIXED POINT

Fixed points serve the uniform distribution (halving) of the swelling and shrinkage movements. The drill hole diameter of the Max Compact Exterior panel has to be made approx. one flight depth lower than the screw diameter.

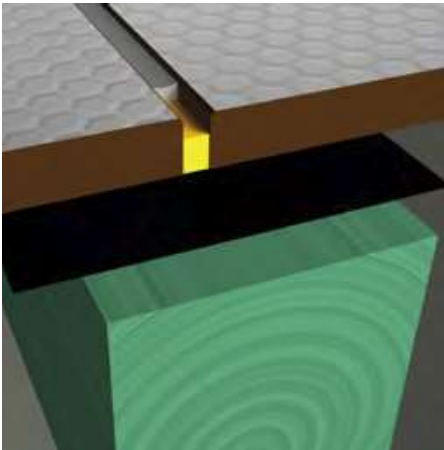
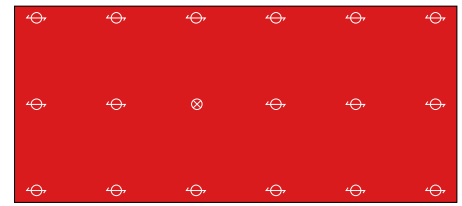


Fig. 135

SLIDING POINT

Based on how much space is needed for expansion, the diameter of the drill hole in the substructure should be that much larger than the diameter of the fastening means. The diameter of the shank of the fastening means plus 2 mm per meter of paneling from the fixed point. The fastening means is set such that the panel can move. Screws must not be overtightened. Do not use counter sunk screws. The center of the drill hole in the substructure must coincide with the center of the drill hole in the Max Compact Exterior panel. Suitable drilling aids (drilling equipment) should be used. The fastenings should be put in place starting from the middle of the panel outwards.



DOUBLE SPAN PANEL

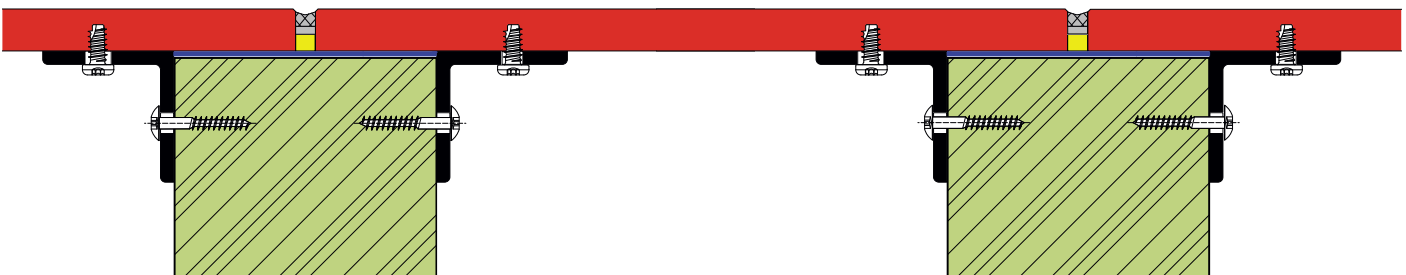
Fig. 136

⊗ FIXED POINT ⊕ SLIDING POINT



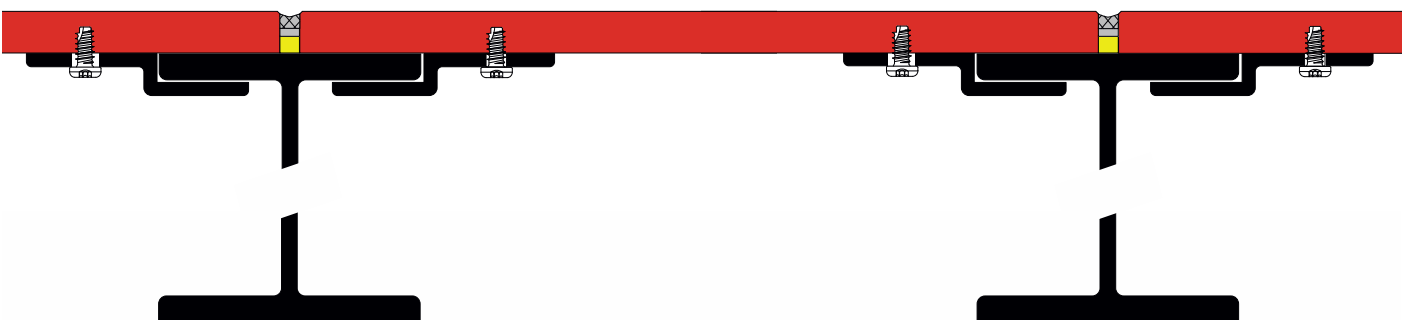
SINGLE SPAN PANEL

Fig. 137



BALCONY FLOOR PANEL INVISIBLE FIXED (SCREWED) ON WOODEN BEAM

Fig. 138



BALCONY FLOOR PANEL INVISIBLE FIXED (SCREWED) ON STEEL BEAM

Fig. 139

Mounting of Podio (Max Compact Exterior) balcony floor panels with gluing system

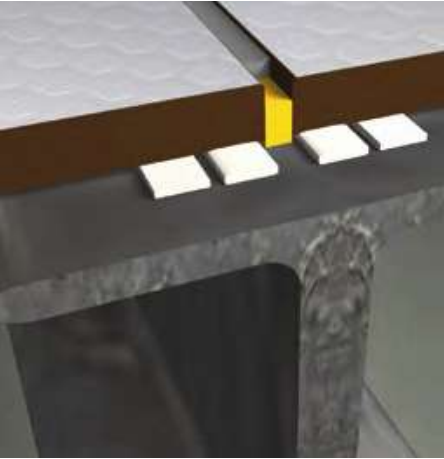


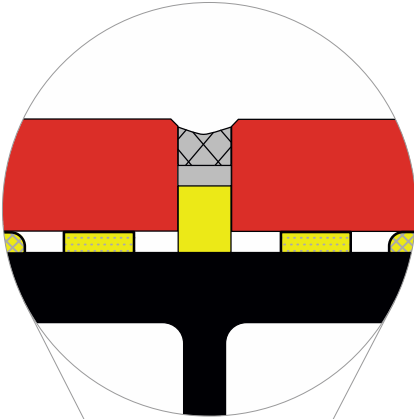
Fig. 140

GLUING

An alternative to mechanical fastening is gluing the Max Compact Exterior balcony floor panel with the gluing system Propart or Innotec which were specially developed for this purpose. This works on conventional planed metal substructures.

Note:

Ensure that the Max Compact Exterior (balcony floor-) panel is not subjected stress when gluing it into place. When installing the Max Compact Exterior panel, be sure to take the expansion and shrinkage behavior into account.



BALCONY FLOOR PANEL WITH SECRET FIXING (GLUED) ON STEEL BEAM

Fig. 141

