



PANELS
THAT
CONNECT.



BRUCHA panel

roof **DP**

PIR+ / iQTec
nonhalogen foam technology®

&

Urbanscape®
Green Roof System



Why green a BRUCHA panel roof?

The design of buildings has evolved over the years, but the function has remained constant: protection, comfort, warmth in winter and coolness in summer. In recent years, however, the environmental impacts of buildings and green roof solutions are becoming increasingly important.












With the development of a more comprehensive view of sustainability, it is critical to remember that, from a building lifecycle perspective, the environmental impact of every building is the result of its energy consumption during the time it is used, the use of renewable energy and the use of sustainable materials.

Green roofs go beyond contemporary architecture and give new value to the role of buildings within urban planning. They are designed not only to reintroduce the element of nature in the urban environment but also to provide solutions for important issues like urban heat island and stormwater management.

















More information: <https://www.urbanscape-architecture.com/solutions/green-roof-system/>

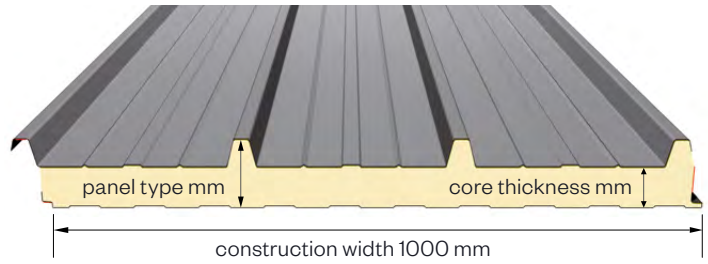
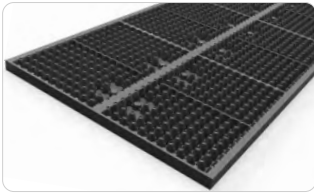


What are the main benefits?

-  Complete solution
-  Low construction height
-  Improved root growth
-  High water absorption and retention
-  Lightness
-  Sustainable solution
-  Rainwater purification
-  Fast and easy installation
-  Instant green
-  Cleaner air
-  Strong plants

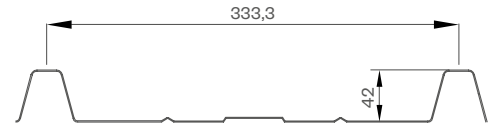
Core sedum species in Urbanscape® blankets

Variety	Flowering	Not flowering	Variety	Flowering	Not flowering
Sedum Acre Flowering period: June to July Maximum height: 5 cm Flower colour: yellow			Sedum sexangulare Flowering period: June to July Maximum height: 5 cm Flower colour: yellow		
Album Coral Carpet Sedum Flowering period: June to July Maximum height: 10 cm Flower colour: white			Sedum hispanicum Flowering period: June to August Maximum height: 5 cm Flower colour: white rosa		
Sedum Wall Album Flowering period: June to July Maximum height: 10 cm Flower colour: white			Sedum floriferum Flowering period: June to July Maximum height: 15 cm Flower colour: yellow		
Sedum hybridum Flowering period: July to August Maximum height: 15 cm Flower colour: yellow			Sedum Kamtschaticum Flowering period: June to August Maximum height: 15 cm Flower colour: yellow		



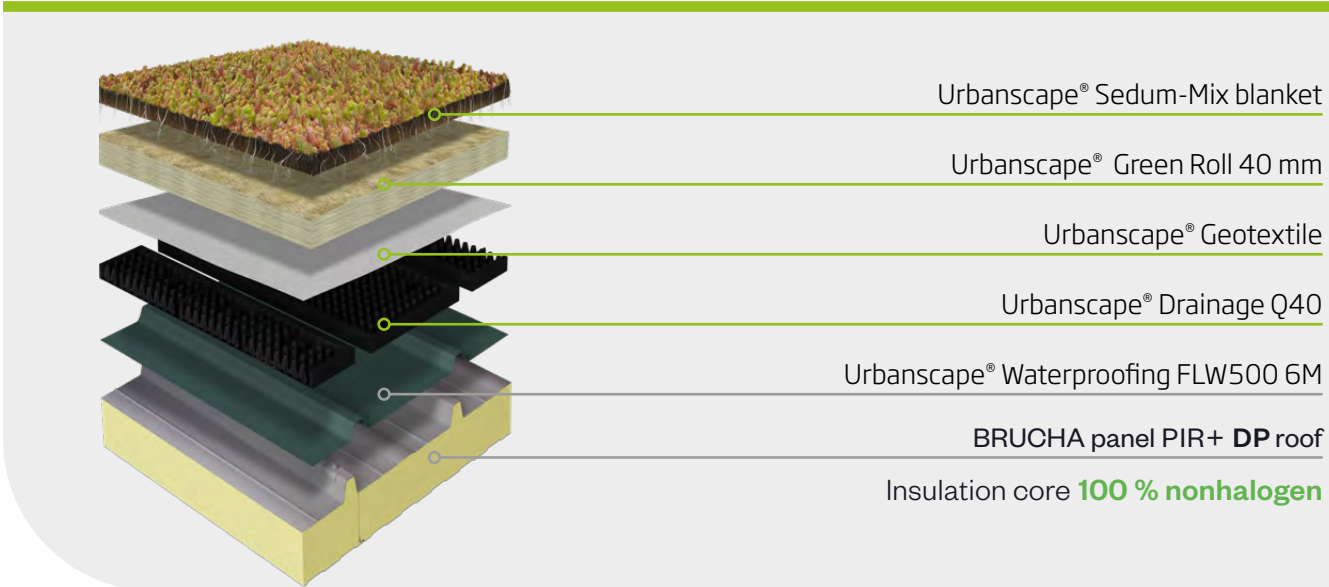
TRAPEZOID
PROFILE

exterior close-up



PANEL-JOINT-CONNECTION with unique
TRIPLE SEALING SYSTEM

for optimal condensate protection. more details:
<https://www.brucha.com/en/products/panels/bruch-a-panel-dp>



Performance characteristics of the system components Urbanscape Green Roof System BRUCHA

System components	Weight (kg/m ²)		Hight (mm)	Water storage capacity (l/m ²)
	Dry	Wet		
Urbanscape® Sedum-Mix	approx. 15	approx. 25	approx. 20-40	approx. 8
Urbanscape® Green Roll	4,4	33,4	40	approx. 29
Urbanscape® Geotextile	0,11	0,56	0,65	0,45
Urbanscape® Drainage Q40	1,92	25,22	40	23,3
Urbanscape® Waterproofing FLW 500 6M	0,47	0,47	0,5	-
BRUCHA panel roof PIR+ DP (example DP 142)	12,72	12,72	100 core thickness	-

BRUCHA panel DP from 30 to 160 mm core thickness possible (core thickness + top crown 42 mm = total panel height)
ATTENTION! Consider the Urbanscape® system components when calculating the height of the fall protection.



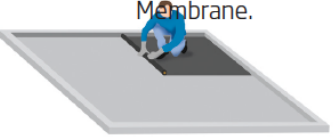


The modular layer principle used by Urbanscape[®] Green Roof System BRUCHA is the foundation for foolproof and super-fast installation. Usually, a team of three can install up to 500 m² of Urbanscape[®] Green Roof in one day by simply following the steps below.

Step 1 Clean the roof and check that the waterproofing membrane is not damaged.



Step 2 If the waterproofing membrane is not resistant to root penetration, protect it with Urbanscape[®] Root Membrane.




Step 3 Recommendation: Lay the protection layer of Urbanscape[®] Geotextile.



Step 4 Lay the selected drainage crosswise on top of the protective layer (if used), covering the entire area where the green roof will be set up.



Step 5 Set up edge profiles around the green roof.




Step 6 Recommendation: Lay the protection layer of Urbanscape[®] Geotextile 110 crosswise on top of drainage.



Step 7 Roll out Urbanscape[®] Green Roll crosswise on top of Urbanscape[®] Drainage (or crosswise on top of Geotextile 110 if used).



Step 8 If irrigation is needed, install it directly on top of Urbanscape[®] Green Roll.



Step 9 Roll out the Urbanscape[®] Sedum-Mix blanket crosswise on top of Urbanscape[®] Green Rolls.



Step 10 Fertilize the green roof with the Urbanscape[®] Conditioner.



Step 11 Water the vegetation until the system is fully saturated.

