

ORION Concrete Retaining Wall

Installation Guide



4,622

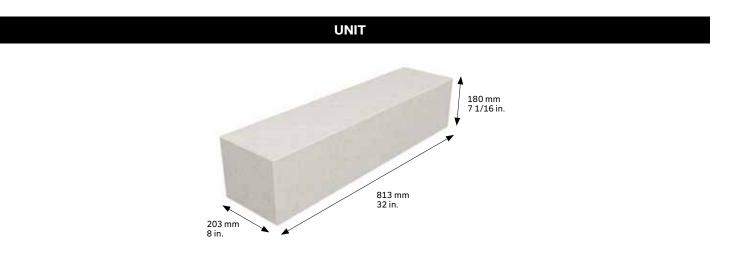
www.vanbeeks.com

Orion Wall

DESCRIPTION



Build outdoor living elements with ease: flower boxes, privacy walls, flower beds, etc. No hardware nor accessories are required for the installation. With its slender format and smooth texture, Orion Wall will bring elegance and modernity to all your designs. No need to add a capping unit—all Orion wall units have finished corners, faces and tops.

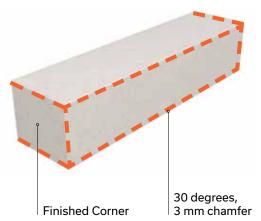


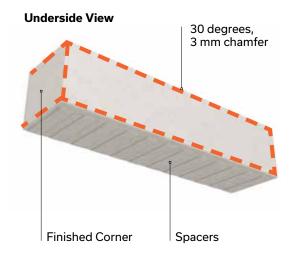
TECHNICAL INFORMATION

	MAX HEIGHT ft.	MAX HEIGHT m.	SETBACK degrees	QUANTITY ft ²	QUANTITY m ²
Setback	—	_	_	_	_
Straight	2.35	0.72	_	0.63	6.83

BASIC PRINCIPLES



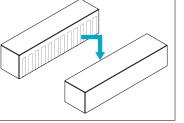




TYPICAL ROW

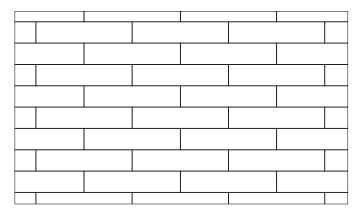
CAUTION !

Orion units must be turned on their side once removed from the skid. The spacers should face the ground. The face with the chamfers goes on the outside of the wall.



LAYING PATTERN

RUNNING BOND PATTERN



CREATING OUTER AND INNER CORNERS

It is recommended to always begin the construction of a retaining wall with a corner in order to avoid cuts and an alignment of vertical joints from one row to another. Orion units have to be glued together with a Techniseal concrete adhesive.

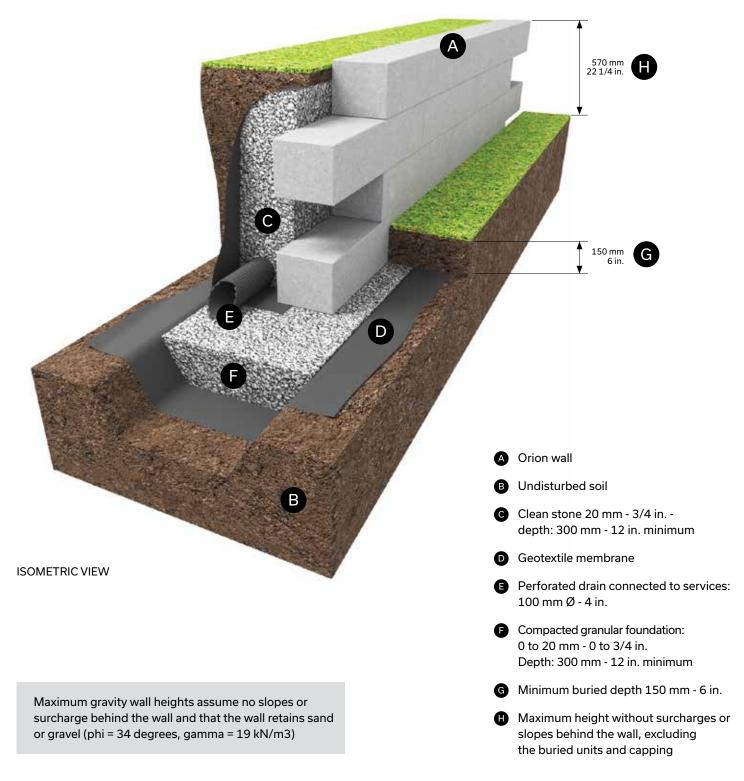


CROSS-SECTION - VERTICAL WALL

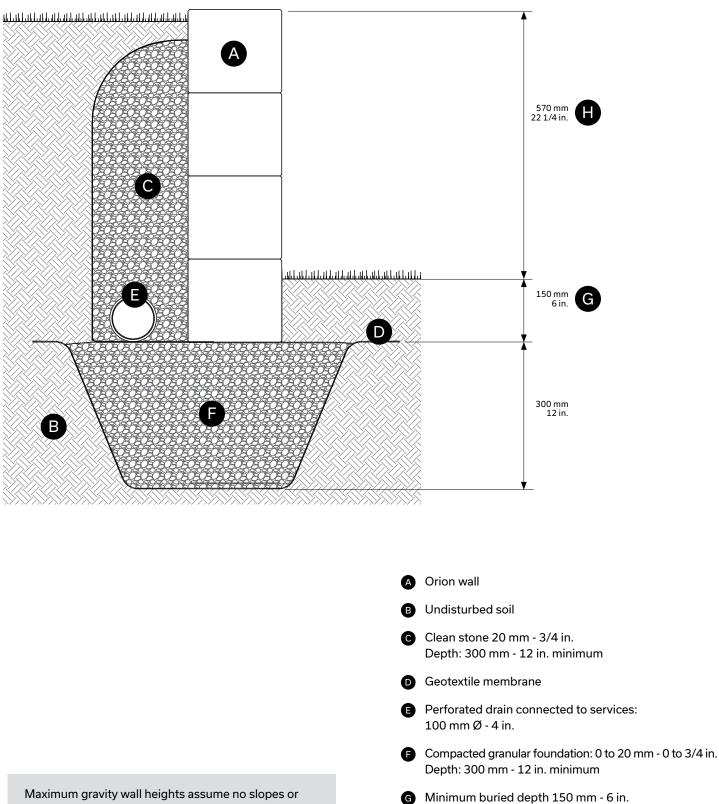
Orion Wall installed in a vertical application can go up to 4 rows (total height of 720 mm or 28 1/4 in).

- > Use Techniseal concrete adhesive between rows of Orion Wall
- > Orion Wall can be used with or without capping over the last row. If a capping unit is installed, simply glue it with concrete adhesive.

No accessory required for the Orion Wall.



CROSS-SECTION - VERTICAL WALL



surcharge behind the wall and that the wall retains sand or gravel (phi = 34 degrees, gamma = 19 kN/m3)

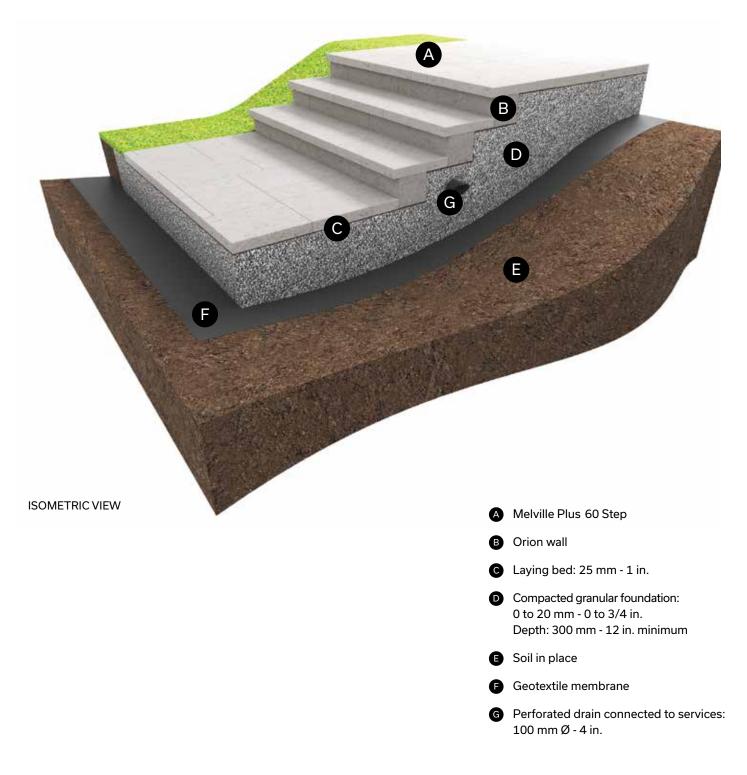
 Maximum height without surcharges or slopes behind the wall, excluding the buried units and capping

CROSS-SECTION – CREATING ORION WALL STEPS

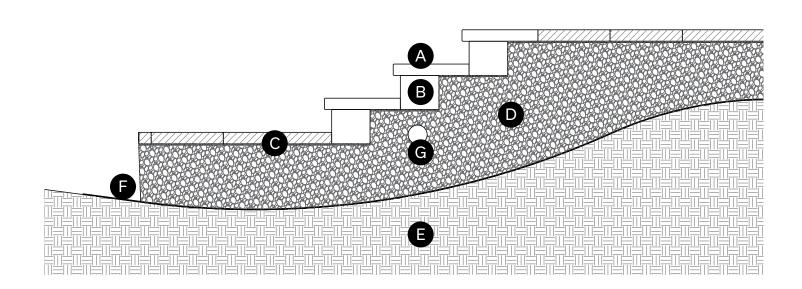
To create steps, install the Melville 60 step combined with the Orion Wall units used as risers, as detailed below:

> Use Techniseal concrete adhesive to glue the step unit

No accessory required for the Orion Wall.



CROSS-SECTION – CREATING ORION WALL STEPS



Melville Plus 60 Step
Orion wall
Laying bed: 25 mm - 1 in.
Compacted granular foundation: 0 to 20 mm - 0 to 3/4 in. Depth: 300 mm - 12 in. minimum
Soil in place
Geotextile membrane
Perforated drain connected to services: 100 mm Ø - 4 in.