Grande® Wall

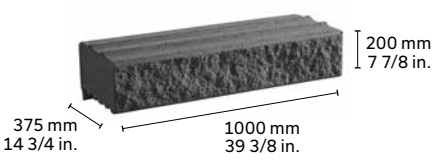
DESCRIPTION

GRANDE is a mechanically installed wall system capable of building retaining walls to virtually any height.

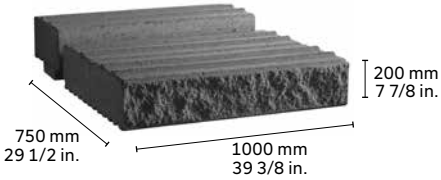
Suitable for gravity or grid, vertical or setback, straight or curved walls. All Grande wall component units come pre-split. Patented tongue and groove technology provides the strongest interlock and grid connectivity available. Ideal for narrow construction envelopes or where grid is not permitted. Corners are available cut at any angle. 438 coping/step unit is ideal for standalone stairs. Wedge units create a 1000 mm - 3 ft.3 in. outside radius without cutting.

UNITS - SOLD SEPERATELY

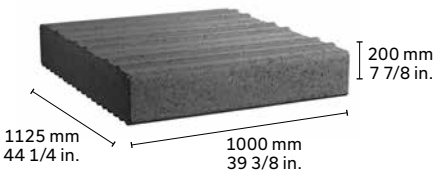
375 UNIT



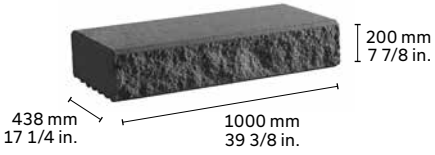
750 UNIT



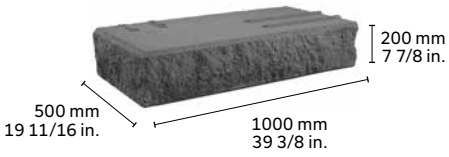
1125 UNIT



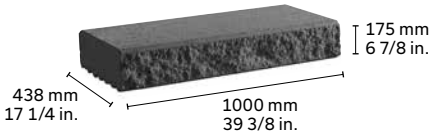
CAPPING UNIT



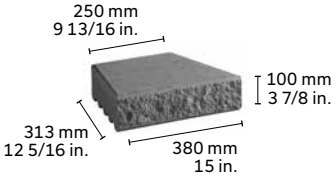
CORNER UNIT



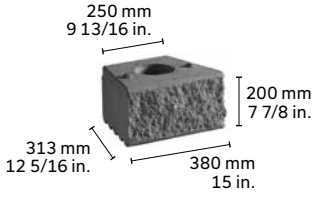
175 STEP UNIT



WEDGE CAPPING UNIT

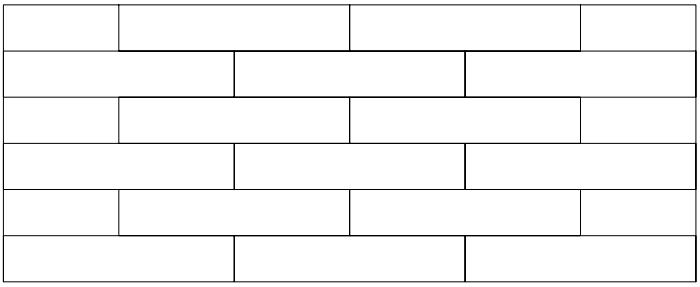


WEDGE UNIT



LAYING PATTERN

LINEAR PATTERN



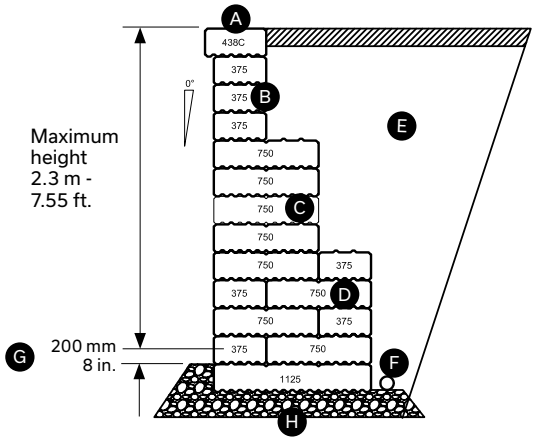
TIPS

4 Wedge units are required for a rounded 90° corner, 16 pcs for a full circle.

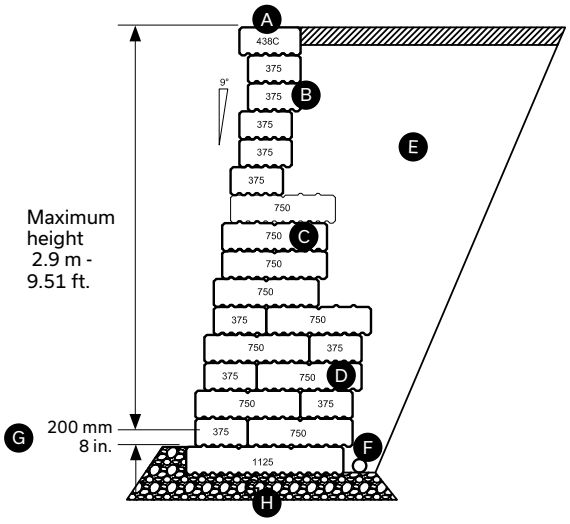
Two thirds of all Wedge units in a bundle come double rock-faced for inside and outside curves. Grande 375 standard units come double rock face 1/3 of bundle .

CROSS-SECTION

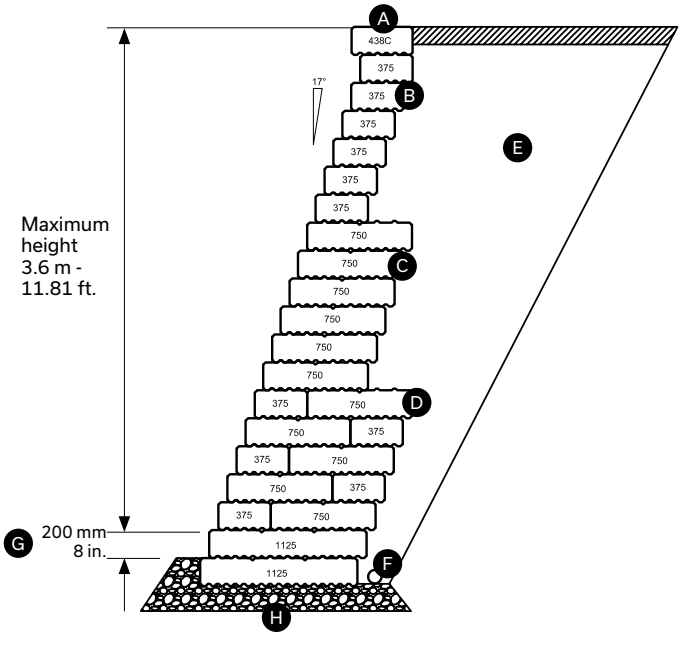
The Grande system is designed to be installed with three possible pitches: 0°, 9° and 17°



0° VERTICAL BATTER



9° BATTER



17° BATTER

- **A** 438 mm coping unit
- **B** 375 units
- **C** 750 units
- **D** 1125 units
- **E** Free-draining sand and gravel material
- **F** Perforated drain connected to services: 100 mm Ø - 4 in.
- **G** Minimum buried depth 200 mm - 8 in.
- **H** Compacted granular foundation: 0 to 20 mm - 0 to 3/4 in.

NOTE 1: THE DESIGN CHARTS PRESENTED HERE REFLECT THE FOLLOWING ASSUMPTIONS:
The backfill material behind the wall and the existing soil to be retained must have an internal friction angle of 30° or more. The bearing capacity of the soil under the granular base must be at least 150 kPa (3150 lb/ft²). These charts were developed using 1125 mm units as the basic depth, thereby limiting the maximum aboveground height to 3.6 m - 11.81 ft. However, the height of the walls can be extended by adding units to build broader bases. Grande walls can reach heights of up to 6.0 m - 19.7 ft. by gravity. The walls can be installed with other height and overload specifications than those above. Specific designs for special project conditions are available from Permacon's technical department.

NOTE 2: These products have the potential for constructing higher walls using geogrid-type reinforcement. Consult your Permacon sales representative for details.