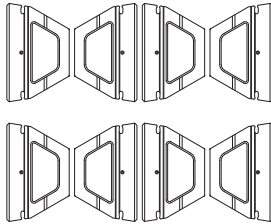




# G-FORCE

DESCRIPTION: Wall TEXTURE: Smooth

## PALLET OVERVIEW



## COMPATIBLE CAPS

See page 140 for product compatibility.

## NOTES

G-Force block can be installed in a setback position only (inclined wall). The positioning of the HDPE key does not allow for a vertical installation.

Geogrid positioning: visit our website for geogrid design charts

See page 135 to 156 for more technical information.

Specifications per pallet	Imperial	Metric
Cubing	<b>32.00 ft<sup>2</sup></b>	2.97 m <sup>2</sup>
	48 lin. ft	14.63 lin. m
Approx. Weight	2 477 lbs	1 124 kg
Number of rows	4	
Coverage per row	8.00 ft <sup>2</sup>	0.74 m <sup>2</sup>
Linear coverage per row	12.00 lin. ft	3.66 lin. m



Unit dimensions	in	mm	Units/pallet
Height	8	203	32 units
Depth	11 <sup>7</sup> / <sub>16</sub>	290	
Length 1	18	457	
Length 2	8 <sup>5</sup> / <sub>8</sub>	219	

Chestnut Brown



Sandlewood



Champlain Grey



Shale Grey

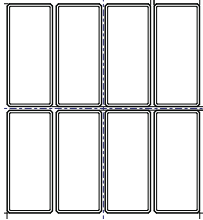




## G-FORCE CORNER UNIT

DESCRIPTION: Wall TEXTURE: Smooth

### PALLET OVERVIEW



Specifications per pallet	Imperial	Metric
Cubing	<b>16 units</b>	16 units
Approx. Weight	1 654 lbs	750 kg
Number of rows	2	



Unit dimensions	in	mm	Units/pallet
Height	8	203	16 units
Depth	9	229	
Length	18	457	



### COMPATIBLE CAPS

See page 140 for product compatibility.

### NOTES

See page 135 to 156 for more technical information.

Chestnut Brown



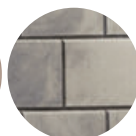
Sandlewood



Champlain Grey



Shale Grey

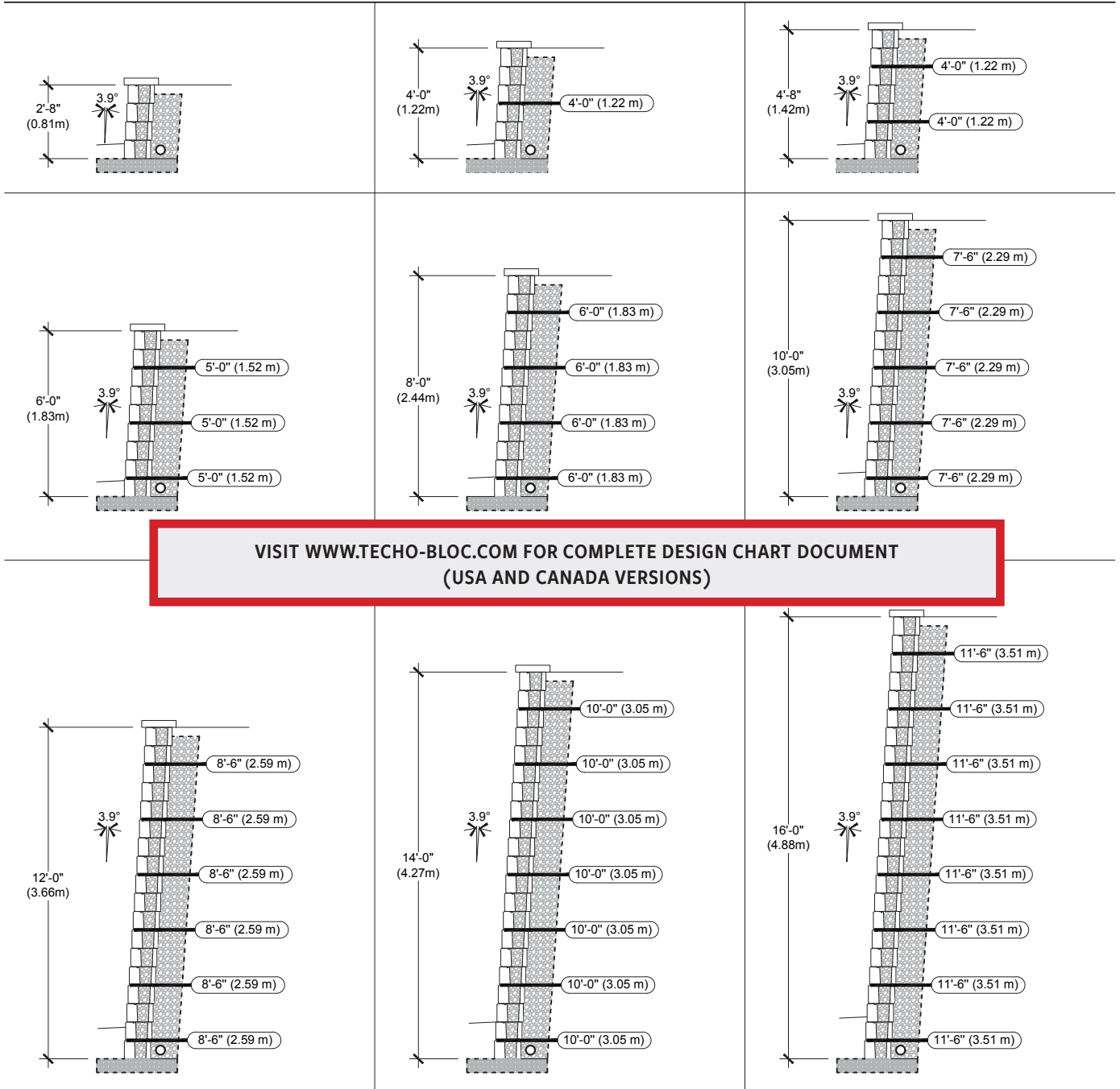


# TECHO—BLOC

## DESIGN CHART G-FORCE SETBACK VERTICAL

CLEAN SAND/GRAVEL/ SAND AND GRAVEL MIXES ( $\phi=34^\circ$ ,  $\gamma = 120$  pcf)  
 GEOGRID: MIRAGRID 3XT BY TENCATE (RFd=1.10, RFcr=1.45, RFid=1.25, Cds=0.9, Ci=0.9)

**CASE N° 1 :**  
 No Surcharge  
 No Backslope  
 No Toe Slope



**VISIT [WWW.TECHO-BLOC.COM](http://WWW.TECHO-BLOC.COM) FOR COMPLETE DESIGN CHART DOCUMENT  
(USA AND CANADA VERSIONS)**

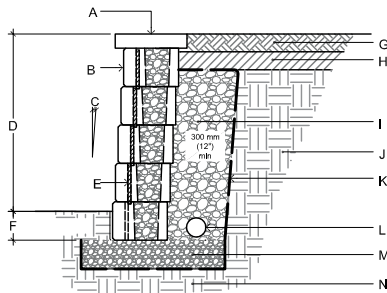
1. The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
2. The height (H) of the wall is the total height from the leveling pad to the top of the wall not including the thickness of the cap.
3. Soil parameters: reinforced soil ( $\phi = 34^\circ$ ,  $\gamma = 120$  pcf); retained soil ( $\phi = 34^\circ$ ,  $\gamma = 120$  pcf); foundation soil ( $\phi = 34^\circ$ ,  $\gamma = 120$  pcf)
4. A qualified engineer should be consulted for the final design to be used for construction.
5. The foundation soil must be able to support the wall system. The bearing capacity of the foundation soil, settlement, and global stability must be verified and validated by a qualified geotechnical engineer.
6. The seismic analysis is not included.
7. The design charts do not apply to tiered walls.
8. The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
9. The geogrid layout has been optimized to satisfy the design requirements of the NCMA's Design Manual for Segmental Retaining Walls, 3rd Edition.
10. The minimum burial depth must be 6 in (150 mm) or 10% of the exposed height, whichever is greater.
11. Engineering judgement should be used when interpolating between heights.
12. Techo-Bloc and its predecessors, successors, beneficiaries, employees, associates, administrators and insurers accepts no liability for the incorrect use of information contained in the design charts.
13. For further information, please contact our technical service department.

WALLS & PILARS

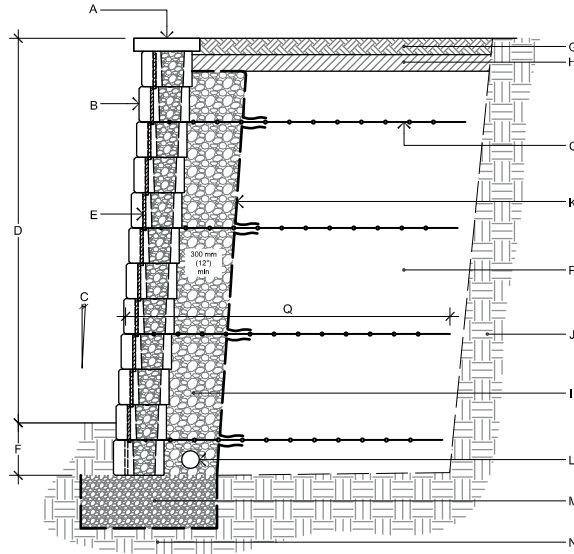
techo-bloc.com

# INSTALLATION GUIDE

## GRAVITY AND REINFORCED WALLS - G-FORCE



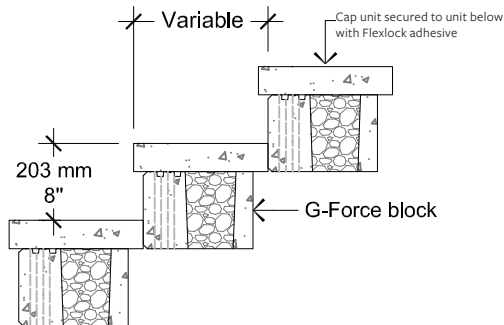
GRAVITY WALL DETAIL



REINFORCED WALL DETAIL

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><b>A.</b> CAP FROM TECO-BLOC</li> <li><b>B.</b> G-FORCE BLOCK FROM TECO-BLOC</li> <li><b>C.</b> WALL INCLINATION (3.9°)</li> <li><b>D.</b> EXPOSED HEIGHT</li> <li><b>E.</b> HDPE VERTICAL KEY</li> <li><b>F.</b> EMBEDMENT DEPTH</li> <li><b>G.</b> TOP SOIL</li> <li><b>H.</b> LOW PERMEABILITY SOIL</li> <li><b>I.</b> 3/4" (20 mm) CLEAN STONE</li> </ul> | <ul style="list-style-type: none"> <li><b>J.</b> RETAINED SOIL</li> <li><b>K.</b> GEOTEXTILE</li> <li><b>L.</b> PERFORATED DRAIN</li> <li><b>M.</b> LEVELING PAD</li> <li><b>N.</b> FOUNDATION SOIL</li> <li><b>O.</b> GEOGRID</li> <li><b>P.</b> REINFORCED SOIL</li> <li><b>Q.</b> GEOGRID LENGTH</li> </ul> |
|--|--|

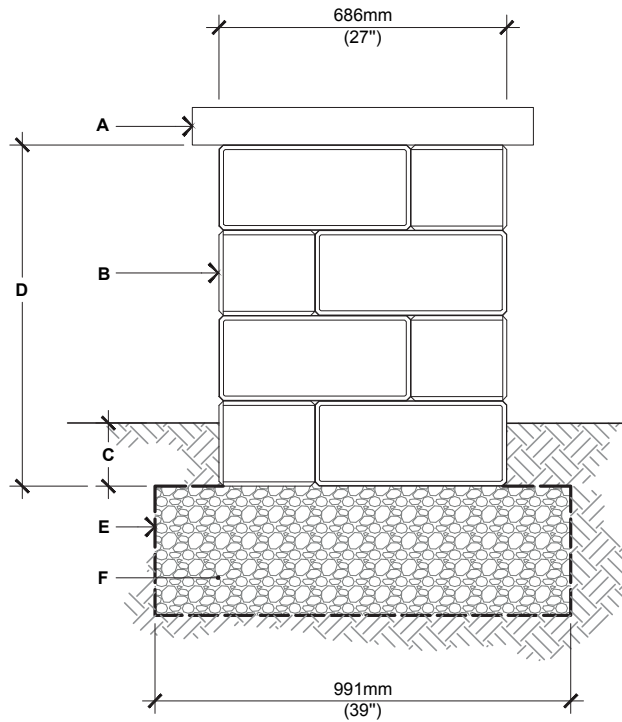
### STEPS - G-FORCE



For all possible combinations of pillars and caps, please refer to the correspondence table on page 140

# INSTALLATION GUIDE

## PILLARS - G-FORCE



### G-FORCE PILLAR

- A.** PILLAR CAP UNIT  
(SECURE WITH FLEXLOCK ADHESIVE)
- B.** G-FORCE UNIT SECURE EACH ROW WITH  
FLEXLOCK ADHESIVE
- C.** EMBEDMENT 6" (150 mm) MIN.
- D.** 32" (813 mm) HEIGHT PER PALLET  
48" (1219 mm), MAX. HEIGHT
- E.** GEOTEXTILE
- F.** COMPACTED GRANULAR BASE 6"  
(150 mm THICK MIN. THICKNESS ACCORDING  
TO PROJECT SPECIFIC CONDITIONS)

For all possible combinations of pillars and caps, please refer to the correspondence table on page 140