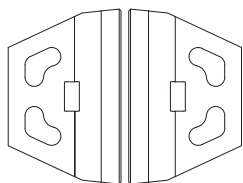




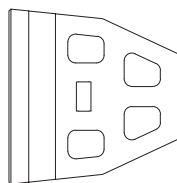
SKYSCRAPER

DESCRIPTION: Wall TEXTURE: Smooth

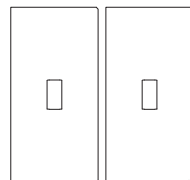
Pallet Overview - Top unit



Pallet Overview - Middle unit

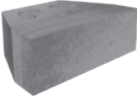


Pallet Overview - Corner unit



Smooth
Chestnut Brown
Smooth
Shale Grey

TOP UNIT

Specifications per pallet	Imperial	Metric
 4 units / pallet	Dimension Front (L × D × H)	36 × 23 ¼ × 12
	Dimension Back (L × D × H)	20 ⅞ × 23 ¼ × 12
Cubing	12.00 ft ²	1.11 m ²
	12.00 lin ft	3.66 lin m
Approx. Weight	2 100 lbs	953 kg
Number of rows	2	
Coverage per row	6.00 ft ²	0.56 m ²
Linear coverage per row	6.00 lin ft	1.83 lin m

MIDDLE UNIT

Specifications per pallet	Imperial	Metric
 2 units / pallet	Dimension Front (L × D × H)	36 × 34 ⅞ × 12
	Dimension Back (L × D × H)	17 ½ × 34 ⅞ × 12
Cubing	6.00 ft ²	0.56 m ²
	6.00 lin ft	1.83 lin m
Approx. Weight	1 620 lbs	735 kg
Number of rows	2	
Coverage per row	3.00 ft ²	0.28 m ²
Linear coverage per row	3.00 lin ft	0.91 lin m

CORNER UNIT

Specifications per pallet	Imperial	Metric
 4 units / pallet	Product dimension (L × D × H)	36 × 18 × 12
	Cubing	4 units
	Approx. Weight	2 460 lbs
	Number of rows	2

NOTES

See page 6 for icons description.

COMPATIBLE CAPS

See page 145 for product compatibility.

Clamp or Mechanical tool available for machine installation. Check with your local Techo-Bloc representative for more information.

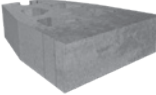
See page 146 to 161 for more technical information.



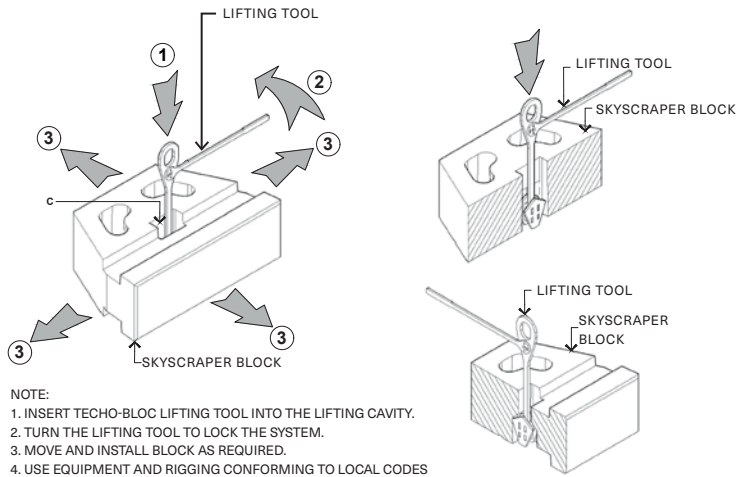
SKYSCRAPER

DESCRIPTION: Wall TEXTURE: Smooth



BASE UNIT			
Specifications per pallet		Imperial	Metric
 2 units / pallet	Dimension Front (L × D × H)	36 × 48 1⁄8 × 12	914 × 1220 × 305
	Dimension Back (L × D × H)	17 5⁄8 × 48 1⁄8 × 12	440 × 1220 × 305
	Cubing	6.00 ft²	0.56 m²
		6.00 lin ft	1.83 lin m
	Approx. Weight	1 860 lbs	844 kg
	Number of rows	2	
	Coverage per row	3.00 ft²	0.28 m²
	Linear coverage per row	3.00 lin ft	0.91 lin m

EXTENDER UNIT			
Specifications per pallet		Imperial	Metric
 4 units / pallet	Product dimension (L × D × H)	20 1⁄2 × 24 3⁄8 × 12	520 × 619 × 305
	Cubing	4 units	4 units
	Approx. Weight	1 800 lbs	816 kg
	Number of rows	2	



NOTES

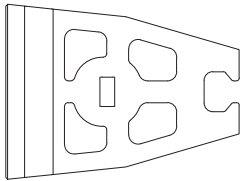
See page 6 for icons description.

COMPATIBLE CAPS

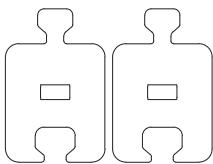
See page 145 for product compatibility.

See page 146 to 161 for more technical information.

Pallet Overview - Base unit



Pallet Overview - Extender unit



Chestnut Brown

Smooth



Shale Grey

Smooth



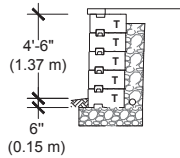
ALLOWABLE STRESS DESIGN

CLEAN SAND/ SAND AND GRAVEL MIXES ($\phi=34^\circ$, $\gamma = 130$ pcf)

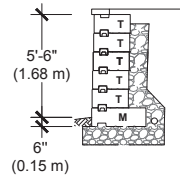
CASE N° 1 :

No Surcharge
No Backslope
No Toe Slope

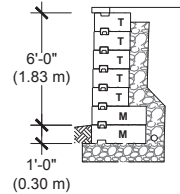
5 ft (1.52 m) Total Height
T: 5



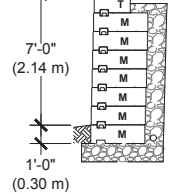
6 ft (1.83 m) Total Height
T: 5
M: 1



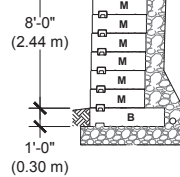
7 ft (2.13 m) Total Height
T: 5
M: 2



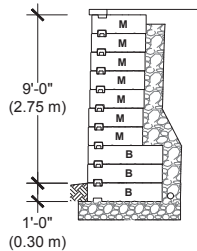
8 ft (2.44 m) Total Height
T: 1
M: 7



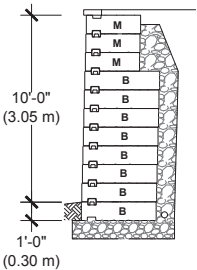
9 ft (2.74 m) Total Height
T: 1
M: 7
B: 1



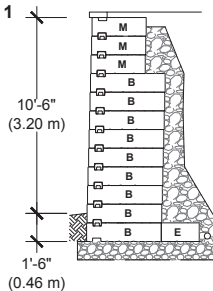
10 ft (3.05 m) Total Height
M: 7
B: 3



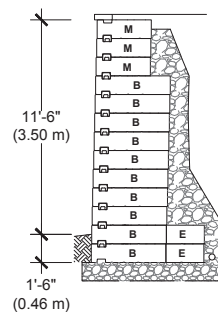
11 ft (3.35 m) Total Height
M: 3
B: 8



12 ft (3.66 m) Total Height
M: 3
B: 8
BE: 1

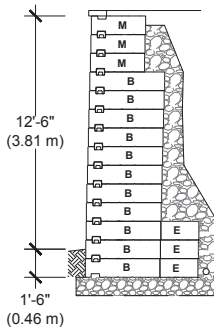


13 ft (3.96 m) Total Height
M: 3
B: 8
BE: 2

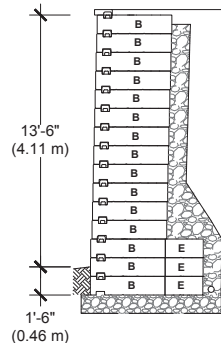


VISIT WWW.TECHO-BLOC.COM FOR COMPLETE DESIGN CHART DOCUMENT
(USA AND CANADA VERSIONS)

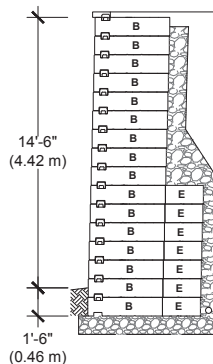
14 ft (4.27 m) Total Height
M: 3
B: 8
BE: 3



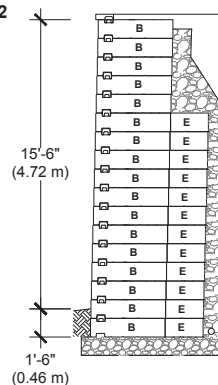
15 ft (4.57 m) Total
B: 12
BE: 3



16 ft (4.88 m) Total Height
B: 9
BE: 7

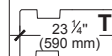


17 ft (5.18 m) Total Height
B: 5
BE: 12

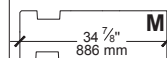


- The information contained in the design charts is supplied for information purposes only and as such should only be used for preliminary designs.
- The height (H) of the wall does not include the thickness of the cap.
- Soil parameters: retained soil ($\phi = 34^\circ$, $\gamma = 130$ pcf); foundation soil ($\phi = 34^\circ$, $\gamma = 120$ pcf)
- A qualified engineer should be consulted for the final design to be used for construction.
- 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.
- The seismic analysis is not included.
- The design charts do not apply to tiered walls.
- The charts assume that the walls are constructed in accordance with Techo-Bloc specifications, good construction practice and an adequate drainage system.
- Engineering judgement should be used when interpolating between heights.
- 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.
- For further information, please contact our technical service department.

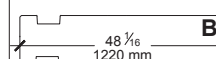
LEGEND :



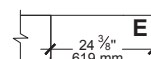
TOP UNIT



MIDDLE UNIT



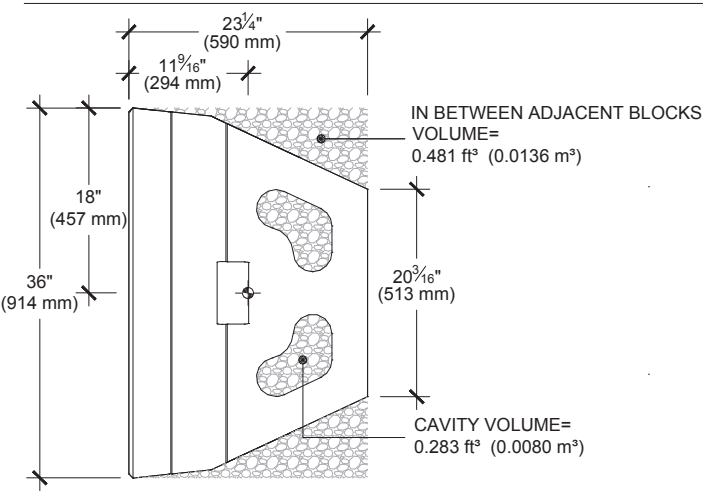
BASE UNIT



EXTENDER UNIT

INSTALLATION GUIDE

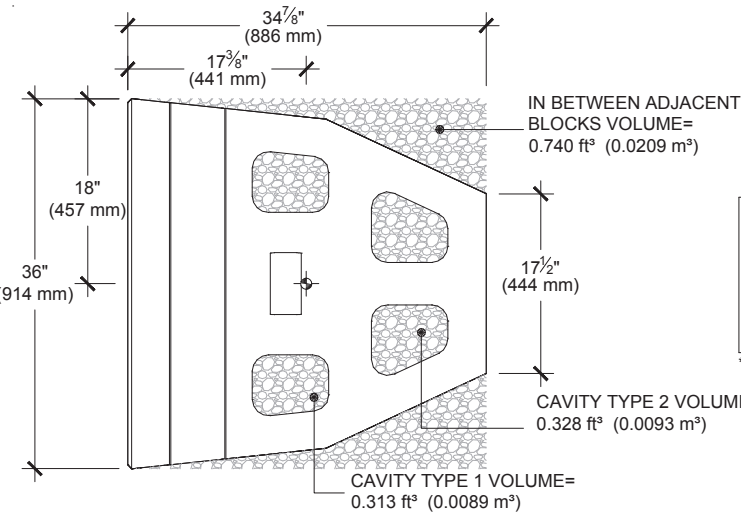
CAVITY INFILL - SKYSCRAPER



SKYSCRAPER TOP

AGGREGATE INFILL QUANTITY	PER UNIT	±1.53 ft³	(±0.043 m³)
		±147.91 lb	(±66.65 kg)
	PER WALL AREA	± 0.51 ft³/ ft²	(±0.16 m³/m²)
		±49.37 lb/ft²	(±248 kg/m²)

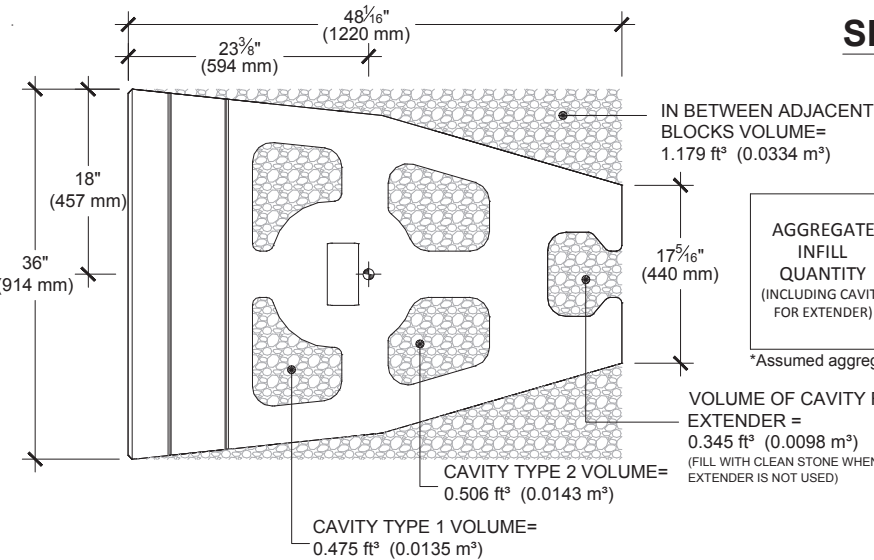
*Assumed aggregate unit weighth of 96.8 lb/ft³ (1550 kg/m³)



SKYSCRAPER MIDDLE

AGGREGATE INFILL QUANTITY	PER UNIT	±2.76 ft³	(±0.078 m³)
		±267.17 lb	(±120.9 kg)
	PER WALL AREA	± 0.92 ft³/ ft²	(±0.28 m³/m²)
		±89.06 lb/ft²	(±434 kg/m²)

*Assumed aggregate unit weighth of 96.8 lb/ft³ (1550 kg/m³)



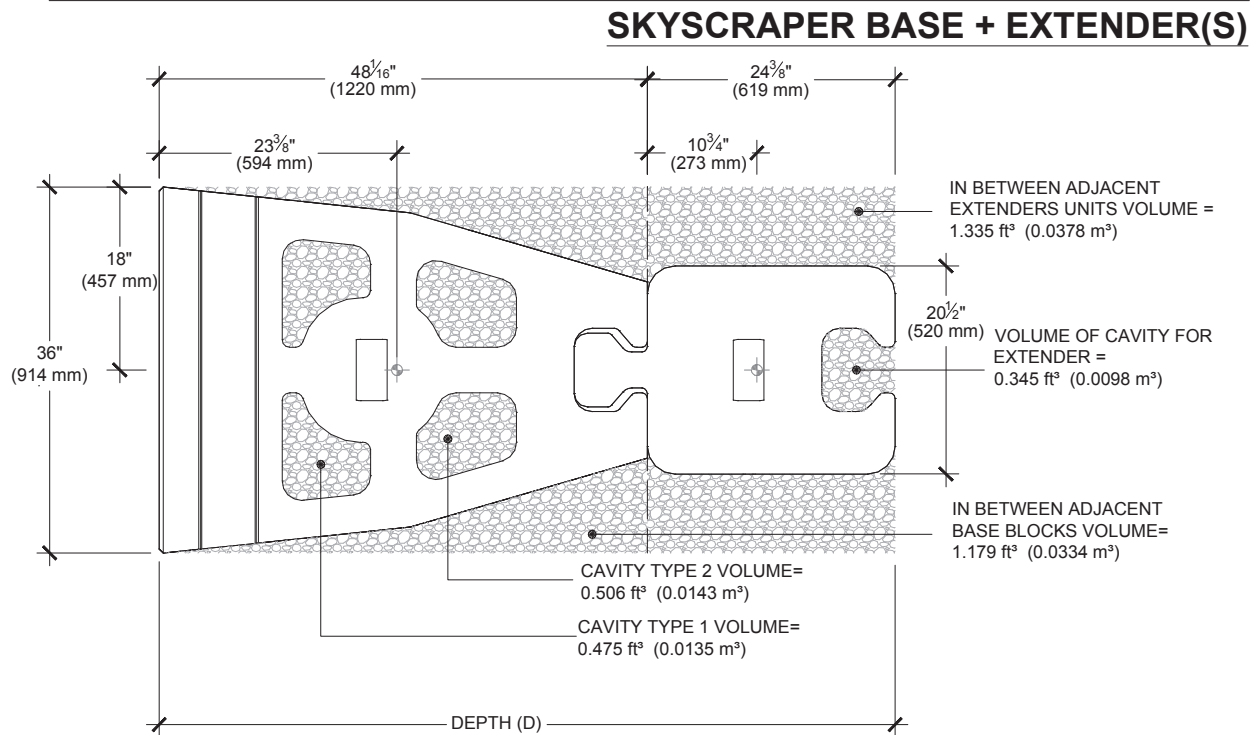
SKYSCRAPER BASE

AGGREGATE INFILL QUANTITY (INCLUDING CAVITY FOR EXTENDER)	PER UNIT	±4.67 ft³	(±0.132 m³)
		±452.06 lb	(±204.6 kg)
	PER WALL AREA	±1.56 ft³/ ft²	(±0.47 m³/m²)
		±151.01 lb/ft²	(±728.5 kg/m²)

*Assumed aggregate unit weighth of 96.8 lb/ft³ (1550 kg/m³)

INSTALLATION GUIDE

CAVITY INFILL - SKYSCRAPER

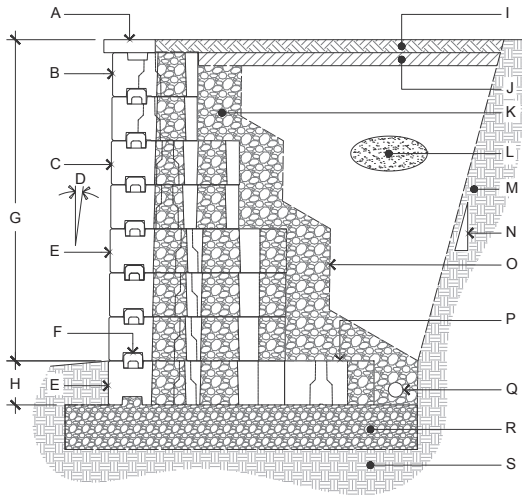


Aggregate Infill Quantity (INCLUDING CAVITY FOR EXTENDER)									
# OF EXTENDERS	DEPTH (D)	PER UNIT				PER WALL AREA			
1	72 3/8 " 1839 mm	±7.35 ft ³	(±0.208 m ³)	±711 lb	(±322 kg)	±2.45 ft ² /ft ²	(± 0.75 m ² /m ²)	±237 lb/ft ²	(±1163 kg/m ²)
2	96 3/4 " 2458 mm	±10.02 ft ³	(±0.283 m ³)	±970 lb	(±439 kg)	±3.34 ft ² /ft ²	(± 1.02 m ² /m ²)	±323 lb/ft ²	(±1581 kg/m ²)
3	121 1/8 " 3077 mm	±12.69 ft ³	(±0.359 m ³)	±1228 lb	(±556 kg)	±4.23 ft ² /ft ²	(± 1.29 m ² /m ²)	±409 lb/ft ²	(±2000 kg/m ²)
4	145 1/2 " 3696 mm	±15.36 ft ³	(±0.435 m ³)	±1487 lb	(±674 kg)	±5.12 ft ² /ft ²	(± 1.56 m ² /m ²)	±496 lb/ft ²	(±2418 kg/m ²)
5	169 7/8 " 4315 mm	±18.03 ft ³	(±0.510 m ³)	±1745 lb	(±791 kg)	±6.01 ft ² /ft ²	(± 1.83 m ² /m ²)	±582 lb/ft ²	(±2837 kg/m ²)
6	194 1/4 " 4934 mm	±20.70 ft ³	(±0.586 m ³)	±2004 lb	(±908 kg)	±6.9 ft ² /ft ²	(± 2.1 m ² /m ²)	±668 lb/ft ²	(±3255 kg/m ²)

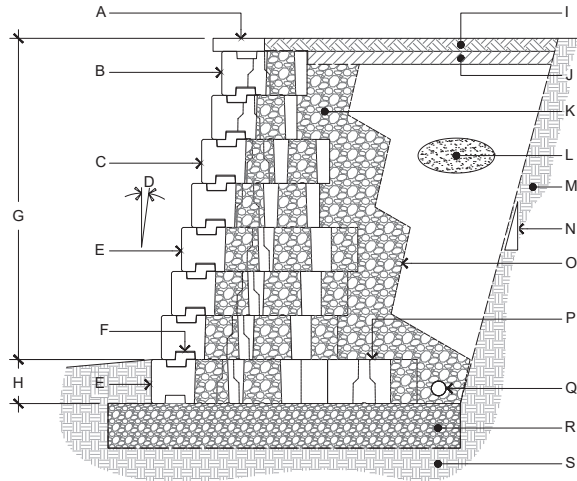
*Assumed aggregate unit weight of 96.8 lb/ft³ (1550 kg/m³)

INSTALLATION GUIDE

GRAVITY WALLS - SKYSCRAPER



GRAVITY NEAR VERTICAL WALL DETAIL



GRAVITY NEAR INCLINED WALL DETAIL

- A.** CAP FROM TECHO-BLOC
- B.** SKYSCRAPER TOP UNIT FROM TECHO-BLOC
- C.** SKYSCRAPER MIDDLE UNIT FROM TECHO-BLOC
- D.** WALL INCLINATION: 0.8° (NEAR VERTICAL)
12.7° (INCLINED)
- E.** SKYSCRAPER BASE UNIT FROM TECHO-BLOC
- F.** PRECAST CONCRETE "U" CONNECTOR
- G.** EXPOSED HEIGHT
- H.** EMBEDMENT DEPTH
- I.** TOP SOIL
- J.** LOW PERMEABILITY SOIL

- K.** ¾" (20 mm) CLEAN STONE, 12" (300 mm) THICK MIN
- L.** COMPACTED BACKFILL
- M.** RETAINED SOIL
- N.** EXCAVATION ACCORDING TO LOCAL SAFETY REGULATIONS
- O.** GEOTEXTILE
- P.** SKYSCRAPER EXTENDER UNIT FROM TECHO-BLOC
- Q.** PERFORATED DRAIN
- R.** LEVELING PAD
- S.** FOUNDATION SOIL