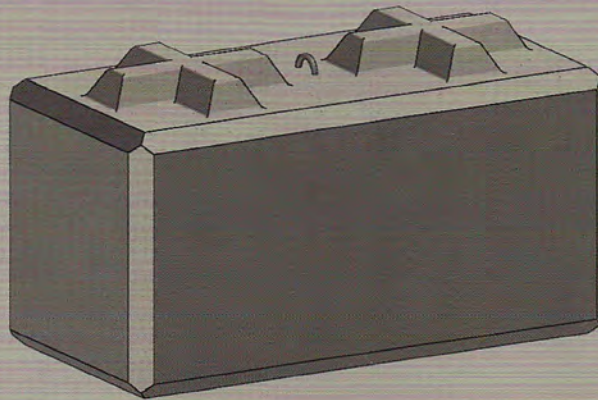


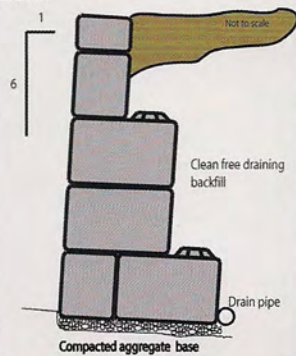
ULTRABLOCK™

Gravity & MSE Wall System



Gravity Section

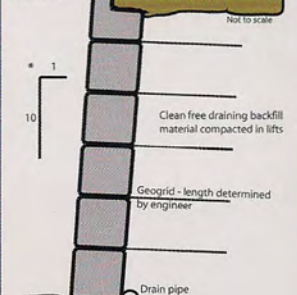
Refer to specifications for details



Compacted aggregate base
A conventional gravity wall can be built by increasing the width of the wall as required in the lower levels

MSE - Tie Back Section

Refer to specifications for details

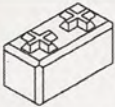

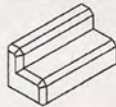

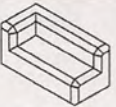
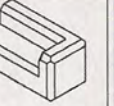
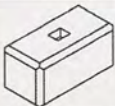




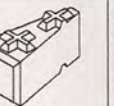
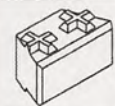

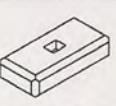


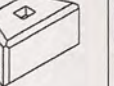
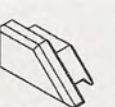

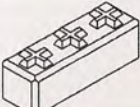
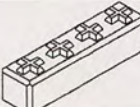


Compacted aggregate base
* A vertical or near vertical wall is possible with proper soil reinforcing grid

The Original Engineered Big Block System for Gravity & MSE Retaining Walls



Full Block Specs

					
Full 2.5' x 2.5' x 5' 4320 lbs	Half 2.5' x 2.5' x 2.5' 2160 lbs	Full Bench 2.5' x 2.5' x 5' 3400 lbs	Half Bench 2.5' x 2.5' x 2.5' 1600 lbs	Right Corner Bench 2.5' x 2.5' x 5' 3500 lbs	Left Corner Bench 2.5' x 2.5' x 5' 3500 lbs
					
Full Flat 2.5' x 2.5' x 5' 4300 lbs	Half Flat 2.5' x 2.5' x 2.5' 2150 lbs	Transition 2.5' x 2.5' x 5' 3500 lbs	Full Cap 1.25' x 2.5' x 5' 2160 lbs	Half Cap 1.25' x 2.5' x 2.5' 1080 lbs	Wedge 2.5' x 2.5' x 4' 3450 lbs
					
Taper 2.5' x 2.5' x 5' 3500 lbs	Flat Transition 2.5' x 2.5' x 5' 3450 lbs	Full Flat Cap 1.25' x 2.5' x 5' 2150 lbs	Half Flat Cap 1.25' x 2.5' x 2.5' 1075 lbs	Flat Wedge 2.5' x 2.5' x 4' 3450 lbs	Flat Taper 2.5' x 2.5' x 5' 3450 lbs
					
Right Bench Transition 2.5' x 2.5' x 5' 2800 lbs	Left Bench Transition 2.5' x 2.5' x 5' 2800 lbs	3X Beam 2.5' x 2.5' x 7.5' 6480 lbs		4X Beam 2.5' x 2.5' x 10.0' 8640 lbs	

Size 29.5" x 29.5" x 59" (750mm x 750mm x 1500mm)
approximately 2.5' x 2.5' x 5'

Weight 4320 lbs. (1960 kg)

Clearance Around Key 1/2" (12mm) - Chamfered corners provide 8sq in of drainage area per block

Lifting Provision A 7 strand galvanized steel loop at top center

Min. Radius of Curvature 100' (30m) for walls one block thick. Use specialty blocks for tighter radii

Surface Finish *Standard grade:* One full / one side face free of large blemishes, shade of concrete may vary

Utility grade: All surfaces may contain large blemishes, honeycomb, chips-concrete may be colored.

Architectural: Specialized pattern such as quarrystone or cutstone

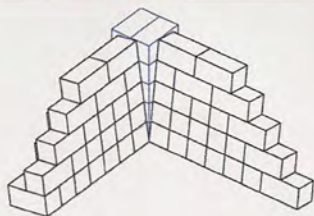
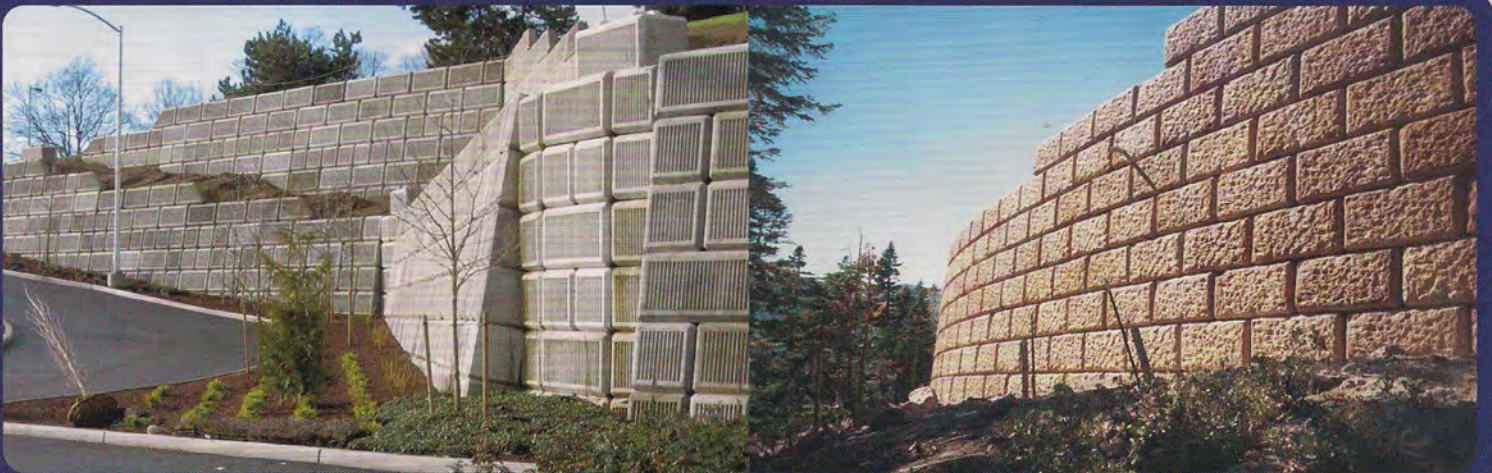
Concrete Strength Blocks are manufactured using surplus concrete and strength levels will vary. Guaranteed strength can be obtained with Schmidt Hammer Test or fresh concrete for additional charges.

Avg Placing Time 10 blocks per hour (bottom row)
20 blocks per hour (other rows)

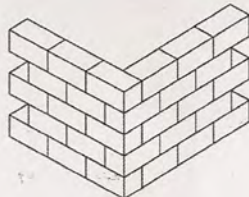


Ultrablock uses surplus / waste concrete and is considered a recycled product

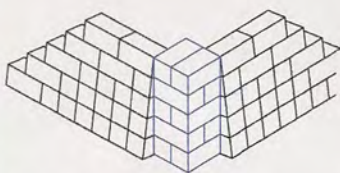
Additional information including installation guides and CAD details can be found at www.ultrablock.com



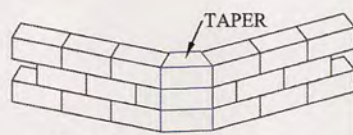
INSIDE ANGLE (GRAVITY WALL)



90° CORNER -NO BATTER (MSE WALL)



OUTSIDE 90 (GRAVITY WALL)



OUTSIDE ANGLE -NO BATTER (MSE WALL)

Minimum Design Considerations

1. Always use free draining backfill to allow drainage. Where high ground water conditions occur in the native ground, chimney or blanket drains may be required.
2. Coulomb (sliding wedge) or Rankine (earth pressure) analysis can be used to determine adequate resistance to sliding and overturning of the blocks.
3. Analysis must include additional loading effects of sloping backfill.
4. Consider additional transient or permanent loads behind the wall.
5. Bearing capacity of foundations including additional loads from backfill on wall should be considered.
6. Prevent the migration of fines through the wall with use of filter material.
7. Consider overall stability of retaining wall, backfill and subgrade.

Note: No construction should be undertaken without professionally engineered specifications for the site and issuance of proper permits

ULTRABLOCK™

800-377-3877