MSE Wall Section with Type 1-AT Connection

No Scale

(VP) = Vertical placement of geogrid layers. Measurements are from the face of the block.

(L) = Length of geogrid. Measurements are from the base elevation.

SETBACK = 1 5/8"
(5" Better Angle on Wall)

28" Top Block

Geogrid Layer (Typical)

Free Draining Backfill to Extend at Least 12" Behind Wall

Move Blocks Forward During Installation to Engage Shear Knobs (Typical)

Non-Woven Geotextile Fabric (If Specified)

28" Middle Block

28" Bottom Block

Swale As Needed and Grade to Drain Away From Wall

Ground Level

Wall Height

Exposed Wall

Ground Level

Bury Depth

Leveling Pad

Perforated Sock Drain (As Specified by Engineer)

Crushed Stone Leveling Pad

This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.
Type 1AT Connection
(Anchored Tail)

MANDATORY
3' Minimum Anchored Tail

3"

Main Geogrid Reinforcement
(Length Per Design)

INSTALLATION STEP 1
Place geogrid on block over the groove. Leave about 3'-6" extending over the block past the groove to provide for the tail.

INSTALLATION STEP 2
Place the fiberglass rod on top of geogrid.

INSTALLATION STEP 3
Fold the geogrid over the fiberglass rod. Pull to tighten rod snug with the back of the groove. Extend the geogrid tail behind the block to provide a minimum of 3'-0" embedment behind the back of the block.

7/16" Fiberglass Rod is Available From Your Local Authorized Redi-Rock Dealer

See www.redi-rock.com for Geogrid Connection and Interface Shear Test Reports.

TIP FOR STEP 3
A steel angle can be used to hold the geogrid and rod in position.

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Four Block Shapes - Multiple Designs

4" Paver Layout Options

Triangle Paver
Step Block
6' Paver
7' 6" Inside Radius
11' 6" Outside Radius
Curved Sidewalk Paver
4' Paver

Paver Installation

DETAIL A
12H : 1V Slope

4" footing bearing material shall be gravel compacted to 95% of standard proctor (or as specified by engineer).

DETAIL B
1" to 1 1/2" compacted sand screeded smooth for bedding pavers.
Quarried Paver Series

Pavers come standard with smooth sides. Any side can be replaced with textured surface. Most commonly used pavers are shown below.

6’ Pavers

7.93 Cft
1134 Lbs +/-

4’ Pavers

5.28 Cft
755 Lbs +/-

Curved Sidewalk Paver

47 1/8"

61 1/4"

48"

30°

59 3/4"

6.61 Cft
945 Lbs +/-

Triangle Paver

48"

45°

48"

4"

2.63 Cft
376 Lbs +/-

Embedments or openings may be placed at any location.
Panel Wall Series

Panel
Volume = 18.6 cf
Weight = ± 2660 lbs

End Column
Volume = 6.7 cf
Weight = ± 960 lbs

Inline Column
Volume = 6.2 cf
Weight = ± 890 lbs

90° Column
Volume = 6.2 cf
Weight = ± 890 lbs

Four-Sided Column
Volume = 7.2 cf
Weight = ± 1030 lbs

Column Cap
Volume = 1.2 cf
Weight = ± 170 lbs

RECESS GROOVE
(FOR COLUMN / ROD CONNECTION)

± 24 3/8" (Texture Varies)

REDI•ROCK
05481 US 31 SOUTH, CHARLEVOIX, MI 49720
(866) 222-8400 ext 3010 • engineering@redi-rock.com
www.redirock.com
COLUMN CAP
(CAP IS Recessed FOR COLUMN CONNECTION)

RED-ROCK COLUMN BLOCKS
(20" x 20" x 36" HIGH)

RED-ROCK WALL PANEL
(12'-3" x 36" x ±6½")

GROOVE CAN BE CAST IN LEVELING PAD TO
ALLOW PANEL TO STEP DOWN FOR WALL
INSTALLATION ON SLOPING GROUND

CONCRETE LEVELING PAD FORMED IN TOP
OF CONCRETE FOOTING TO ESTABLISH
COLUMN LOCATION AND ELEVATION

30" DIA. CONCRETE FOOTINGS

1" DIA. GALVANIZED STEEL ROD PLACED IN
CENTER OF CONCRETE FOOTING AND THROUGH
HOLE IN CENTER OF COLUMN BLOCKS
(MINIMUM LENGTHS AS NOTED IN FOUNDATION
DETAILS CHART)

PANEL WALL - SECTION

NO SCALE

FOUNDATION DETAILS

<table>
<thead>
<tr>
<th>WALL HEIGHT</th>
<th>FOOTING DEPTH SILTY CLAY</th>
<th>FOOTING DEPTH SAND, GRAVEL</th>
<th>FOOTING DIA.</th>
<th>COLUMN SIZE</th>
<th>COLUMN / FOOTING SPACING</th>
<th>1&quot; DIAMETER GALVANIZED ROD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-0&quot;</td>
<td>4'-6&quot;</td>
<td>3'-6&quot;</td>
<td>2'-6&quot;</td>
<td>20&quot; x 20&quot; x 36&quot;</td>
<td>13'-6&quot; O.C.</td>
<td>8'-0&quot; LONG (3'-2&quot; EXPOSED)</td>
</tr>
<tr>
<td>6'-0&quot;</td>
<td>6'-6&quot;</td>
<td>5'-6&quot;</td>
<td>2'-6&quot;</td>
<td>20&quot; x 20&quot; x 36&quot;</td>
<td>13'-6&quot; O.C.</td>
<td>13'-6&quot; LONG (6'-2&quot; EXPOSED)</td>
</tr>
<tr>
<td>9'-0&quot;</td>
<td>9'-0&quot;</td>
<td>6'-6&quot;</td>
<td>2'-6&quot;</td>
<td>20&quot; x 20&quot; x 36&quot;</td>
<td>13'-6&quot; O.C.</td>
<td>17'-6&quot; LONG (9'-2&quot; EXPOSED)</td>
</tr>
</tbody>
</table>

FOUNDATION DESIGN BASED ON 90 mph WIND AND NOTED SOIL CONDITIONS.

COLUMN CONNECTION DETAILS

NO SCALE

1" DIA. GALVANIZED STEEL ROD WITH THREADED END

RECESSED POCKET WITH LIFTING CABLE

C 4x7.25 CHANNEL, 12" LONG
1 1/2" Ø HOLE IN CENTER

REDI-ROCK
05481 US 31 SOUTH, CHARLEVOIX, MI 49720
(888) 222-8400 ext 3010 • engineering@redi-rock.com
www.redirock.com
REDI-ROCK PRECAST PANEL

REINFORCEMENT DETAILS - 90 mph MAXIMUM WIND SPEED

<table>
<thead>
<tr>
<th>WIND SPEED</th>
<th>HORIZONTAL REINFORCEMENT</th>
<th>VERTICAL REINFORCEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 mph *</td>
<td>(3) #4 BARS, 12'-0&quot; LONG, AT 15&quot; O.C.</td>
<td>(9) #4 BARS, 2'-8&quot; LONG, AT 18&quot; O.C.</td>
</tr>
<tr>
<td>150 mph</td>
<td>(5) #4 BARS, 12'-0&quot; LONG, AT 7 1/2&quot; O.C.</td>
<td>(9) #4 BARS, 2'-8&quot; LONG, AT 18&quot; O.C.</td>
</tr>
</tbody>
</table>

* ALTERNATE REINFORCEMENT FOR 90 mph WIND = 6 x 6 - W5.5 x W5.5 WELDED WIRE FABRIC

FOOTING AND LEVELING PAD DETAILS

- REDI-ROCK WALL PANEL
  (12'-3" x 36" x ±6½")

- REDI-ROCK COLUMN BLOCKS
  (20" x 20" x 36" HIGH)

- 20" x 20" x 9" HIGH LEVELING PAD
  FORMED IN TOP OF CONCRETE FOOTING

- OPTIONAL GROOVE CAN BE CAST INTO LEVELING PAD TO ALLOW PANEL STEP DOWN FOR WALL INSTALLATION ON SLOPING GROUND
  (GROOVE MADE WITH ADJUSTABLE INSERT IN LEVELING PAD FORM)

- 30" DIAMETER CONCRETE FOOTING
  (DEPTH IS MEASURED FROM BOTTOM OF LEVELING PAD AND VARIES PER DESIGN)