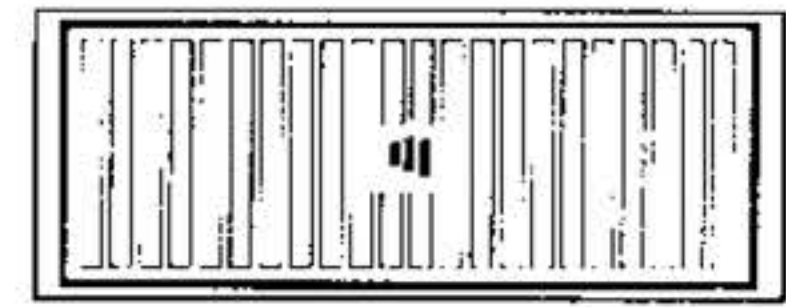


M & M Construction Specialties

2002 North St. Mary's Street • San Antonio, Texas 78212
210-227-6573 • FAX 210-229-1156



Presentation of Product Data

1. PRODUCT NAME

Motzblock

High Density Polyethylene Earth Retainer Block.

2. MANUFACTURER

M & M Construction Specialties
2002 North Saint Mary's Street
San Antonio, Texas 78212
210-227-6573 or 1-800-937-9493
Fax 210-229-1156

3. PRODUCT DESCRIPTION

a. This product is a lightweight, and durable soil retainer block used to prevent expansive soil migration under a suspended building foundation.

b. Limitations to this use are the vertical size of the opening fitting the **Motzblock's** size. To maintain an easily installed retainer the product should be stored flat, out of the sun and away from excessive heat to avoid warping.

c. Composition of the **Motzblock** is High Density Polyethylene.

d. The **Motzblock** is one piece construction.

e. The **Motzblock** is manufactured in 48" x 14", 48" x 26", 48" x 20" and 36" x 14" panels to cover openings up to 18". These panels are trimable in the horizontal direction to any dimension.

f. There are no accessories required for the **Motzblock**.

g. Finish on the **Motzblock** is a semi smooth pattern.

h. Color on the **Motzblock** is black.

i. Reference standards for the High Density Polyethylene materials used in the **Motzblock** include ASTM 1248-84 standards with mechanical and thermal test available in the PAXON polymer literature.

4. TECHNICAL DATA

Technical data for the **Motzblock** is contained in the following reports:

- Technical Data for grade BA50-100 high density polyethylene from PAXON Polymer Company.

- Test results by Raba-Kistner Consultants, Inc. dated January 27, 1991 project number ASD92-031-00.

- Test results by Raba-Kistner Consultants, Inc. dated February 11, 1992 project number ASD92-031-00.

- Test results by Fugro-McClelland (Southwest), Inc. dated May 6, 1994 report No. 1002-2228.

- Test results by Arias & Kezar dated June 24, 1997 report no. 97-3033-1.

5. INSTALLATION

Installation of the **Motzblock** involves placing the blocks in a 2" deep trench in the bottom of the compacted excavation 3" to 8" from the face of the suspended or carton formed beam. The blocks are then leaned against the beam with a 1" overlap to form a water and soil resistant seal. Fill is then placed against the blocks in compacted lifts until the desired final grade of the area around the beam is achieved.

6. AVAILABILITY AND COST

The **Motzblock** is available FOB San Antonio, Texas or from one of our stocking distributors. Our representatives can give you prices or put you in touch with the nearest stocking distributor.

7. WARRANTY

The **Motzblock** is backed by a lifetime warranty against breakage when proper installation methods are used. The purchaser is entitled to receive new **Motzblocks** to replace any that fail due to faulty workmanship or defective materials. Warrantor shall not be liable hereunder for damage to **Motzblocks** used in any unauthorized manor. Warrantor shall not be liable for any installation or reinstallation costs or for any incidental or consequential damages and warrantor shall have no further liabilities or obligations hereunder except as expressly stated herein. Nothing in this limited warranty is intended to or shall change duration of any implied warranties or shall give purchaser any implied warranties he would not otherwise have, extend same beyond their customary duration, or make Warrantor liable for any implied warranties that it would not be liable for if this limited warranty had not been given.

Some states do not allow limitations on how long any implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

8. MAINTENANCE

Maintenance is not required when the **Motzblock** is properly installed.

9. COMPETITION WITH SIMILAR PRODUCTS

The **Motzblock** competes with precast concrete retainer blocks as currently defined in specifications.

10. INSTALLATIONS

A listing of installations is available upon request from M&M Construction Specialties.

Data/Motzblock/specshet.doc

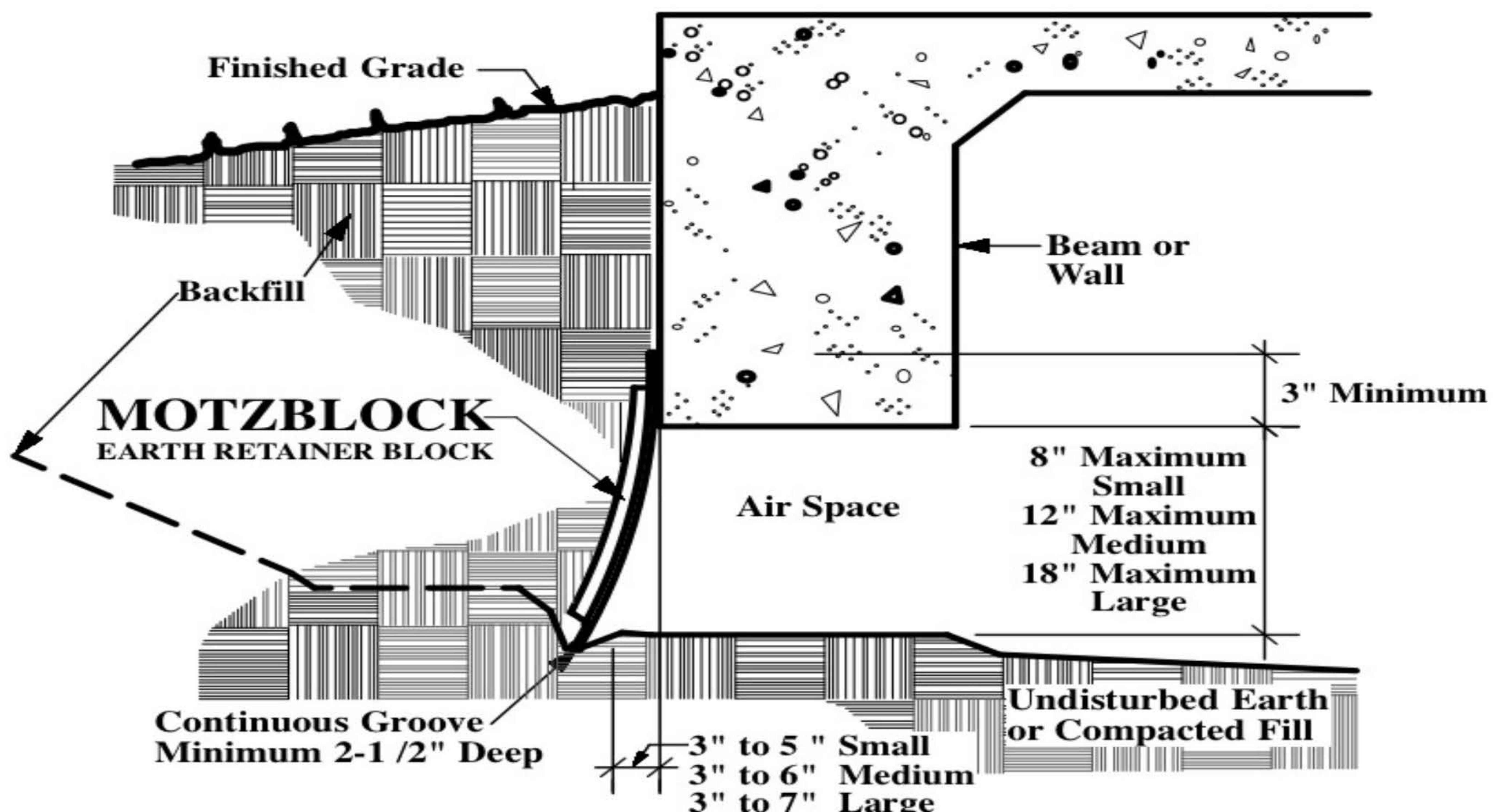
MOTZBLOCK

Installation Instructions without Carton Form (36" X 14" SMALL, 48" X 20" MEDIUM, 48" X 26" LARGE)

1. Prepare a trench where the Motzblock is to be installed by digging a 2-1/2 to 3-1/2 inch groove in undisturbed or compacted fill. The beam side edge of the groove should be located:
(3" to 5" for **SMALL**, 3" to 6" for **MEDIUM**, 3" to 7" for **LARGE**)
from the edge of the beam to assure that the Motzblock will remain in place during backfill and compaction. Motzblocks must project a minimum of 3 inches above beam bottom.
2. Starting at the end of the beam, lay the Motzblock's bottom flange in the groove and lean the flat side against the beam. Make sure the side flanges overlay at least 1 inch allowing for a continuous seal. When properly installed, the flange should be flush with the beam.
3. When the end of the beam is reached, the block may be cut to fit the remaining space. Be sure to allow room to overlap the cut block with the block next to it to assure a good seal. Miter cut at corners or slit top and bottom lips and bend. Tape seams. Motzblock cutoffs less than 1 foot in length should not be used.
4. When blocks are in place, the backfilling process can begin. Backfill materials should be placed in lifts and compacted. Care should be taken with compaction equipment to avoid damaging Motzblocks.
5. Grouting top seam is not required.
6. When backfill has been compacted to desired grade, the installation is complete.
7. Do not store Motzblocks in direct sunlight or on end. This can cause warping and will make your installation more difficult.

IMPORTANT CONSIDERATIONS:

1. A continuous groove at least 2-1/2 inches is necessary to seat the bottom of the Motzblock.
2. Store out of direct sunlight and flat, not on end.
3. Install, as illustrated, with Motzblock ribs perpendicular to beam bottom.





TECHNICAL DATA

GRADE: BA50-100

PAXON® BA50-100 is a high molecular weight high density polyethylene copolymer with a medium molecular weight distribution. This resin has superior stress crack resistance combined with high impact strength and rigidity. It is designed for use in blow molding of large containers and for extrusion into exceptionally tough sheet. This resin meets all the requirements of the FDA for olefin polymers to be used as articles or components of articles for contact with food as set forth in 21 CFR 177.1520 (c) 3.1, 3.2.

PROPERTY*

Classification	ASTM Test	Nominal Value
Type	D1248	III
Class.....	D1248	A
Category.....	D1248	5
Flow Rate 190/2.16.....	D1238	0.05 g/10 min 0.05 g/10 min
Flow Rate 190/21.6.....	D1238	10 g/10 min 10 g/10 min
Density.....	D1505	59.3 lbs/ft ³ 0.950 g/cm ³

Mechanical

Tensile Strength at yield	D638	3700 psi 25 MPa.....
Elongation at break	D638	800 % 800 %.....
Tensile modulus of elasticity	D638	120,000 psi 830 MPa.....
Flexural stiffness, Cantilever Beam.....	D747	115,000 psi 790 MPa.....
Tensile impact	D1822	125 ft. lbs/in ² 26 joules/cm ²
Impact brittleness temperature.....	D746	<-105° F..... <-76° C.....
Environmental stress crack resistance	D1693	450 hrs..... 450 hrs
Hardness, Shore D.....	D2240	68 68

Thermal

Vicat softening temperature.....	D1525	254° F..... 123° C.....
Heat deflection temperature, 66 psi load....	D648	157° F..... 70° C.....
Coefficient of linear thermal expansion.....	D696	7 x 10 ⁻⁵ in/in/°F... 1.2 x 10 ⁻⁴ cm/cm/°C.....

Processing

Bulk density.....	D1895	37 lbs/ft ³ 590 kg/m ³
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*All values are determined on specimens prepared according to ASTM D1248-78 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials." Nominal values should not be interpreted as specifications.

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Printed in U.S.A.

10/88

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High Density Polyethylene

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