# StrataWeb® 712 Product Data

**STRATAWEB**® is a high performance three dimensional cellular confinement system. Filled with granular material, StrataWeb provides superior confinement and reinforcement for load support, erosion control, and slope reinforcement applications. StrataWeb is manufactured from extruded strips of HDPE that are precision welded to form multiple cell heights and sizes. Sections consist of 58 strips of HDPE, resulting in sections of 29 cells long and 5 cells wide. If perforations are required then 11% ± 2%, and up to 16% ± 3%, of the cell wall is removed.

| MATERIAL PROPERTIES | TEST METHOD | UNIT | TEST VALUE |
|---|---|---|---|
| Polymer Density | ASTM D 1505 | g/cm$^3$ (lb/ft$^3$) | 0.935-0.965 (58.4-60.2) |
| Environmental Stress Crack Resistance | ASTM D 5397 | hours | >400 |
| Carbon Black Content | ASTM D 1603 | % by weight | 1.5% minimum |
| Nominal Sheet Thickness after texturing | ASTM D 5199 | mm (mil) | 1.52 (60) -5%, +10% |
| Polyethylene strip shall be textured with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 22 to 31 per cm$^2$ (140 to 200 per in$^2$). | | | |

| PHYSICAL PROPERTIES | UNIT | TYPICAL VALUE | | | |
|---|---|---|---|---|---|
| Nominal-Expanded Cell Size (width x length) | mm (in) | 508 (20) x 475 (18.7) | | | |
| Nominal-Expanded Cell Area | cm$^2$ (in$^2$) | 1206 (187) | | | |
| Nominal-Expanded Section (width x length) | m (ft) | 2.56 (8.4) x 13.72 (45) | | | |
| Nominal-Expanded Section Area (width x length) | m$^2$ (ft$^2$) | 35.1 (378) | | | |
| Cell Depth | mm (in) | 75 (3) | 100 (4) | 150 (6) | 200 (8) |
| Seam Peel Strength[1] | N (lbs) | 1065 (240) | 1420 (320) | 2130 (480) | 2840 (640) |
| Section Weight | kg (lbs) | 19.5 (43) | 25.9 (57) | 39 (86) | 51.7 (114) |
| Sections per Pallet | -- | 60 | 50 | 30 | 25 |
| Seam Hang Strength | -- | A 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 30 days minimum or a 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 7 days minimum while undergoing temperature change from 23°C (74°F) to 54°C (130°F) on a 1 hour cycle. | | | |

[1] *Seam Peel Strength per U.S. Army Corps of Engineers Technical Report GL-86-19, Appendix A*



## STRATA

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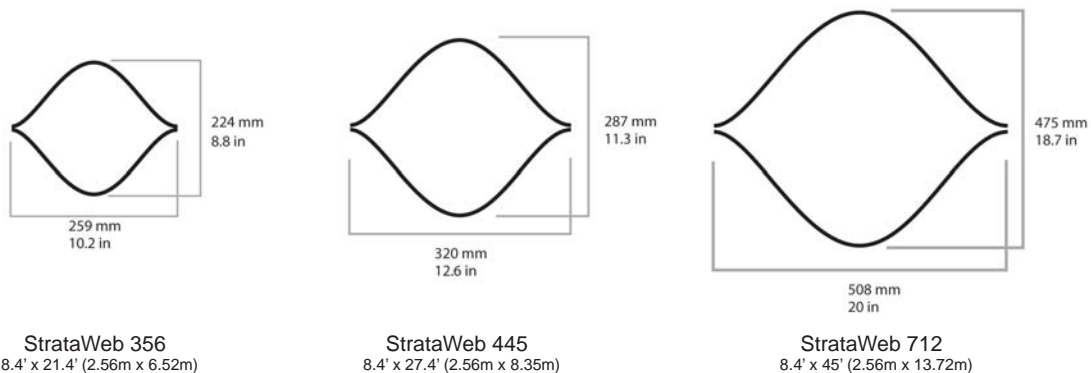Phone: 800-680-7750 • Fax (336) 226-8133
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# StrataWeb®

StrataWeb®  is manufactured in three cell sizes



**StrataWeb 356**
8.4' x 21.4' (2.56m x 6.52m)

**StrataWeb 445**
8.4' x 27.4' (2.56m x 8.35m)

**StrataWeb 712**
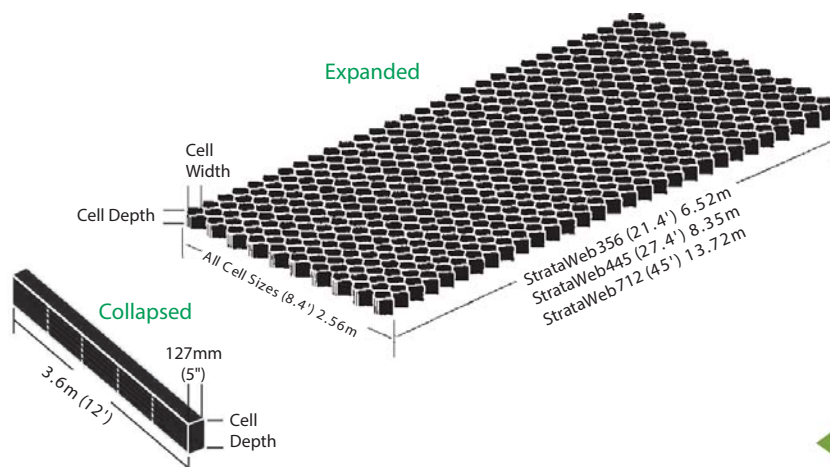8.4' x 45' (2.56m x 13.72m)

StrataWeb panels can be provided in cell heights of 3"  (75mm), 4" (100mm), 6" (150mm), and 8" (200mm).  Standard panels are constructed of 58 strips with the dimensions above.

Custom sizes and solid or perforated cell walls are available.
When perforations are required.  Cell wall is perforated as follows:
1.    Horizontal Rows:  10-mm diameter holes, 16.6 mm on center.
2.    Stagger horizontal rows and separate 8.3 mm relative to hole centers.
3.    Edge of Cell Wall to Nearest Edge of Perforations:  7.93 mm.
4.    Centerline of Weld to Nearest Edge of Perforations:  27.9 mm minimum.
5.    This corresponds to 11% ± 2%, and up to 16% ± 3% cell wall removed
       depending on the cell width and depth.