



# UltraFlex™

ANSWERS TO EROSION CONTROL



**SUBMAR**®

*Synergy with Nature™*

**Submar Synergy With Nature™** is the joining of nature's fragile development with the hard-armor strength and performance of articulated concrete mats resulting in a visually-pleasing and environmentally-minded site solution. UltraFlex Articulating Concrete Block Mats are the long-term proven solution to traditional alternatives such as riprap, gabions, structural concrete, grout mats and other durable erosion protection systems. UltraFlex Mats are easy to install, therefore, reduce construction time and costs on your project. Submar Synergy happens when our products compliment nature.



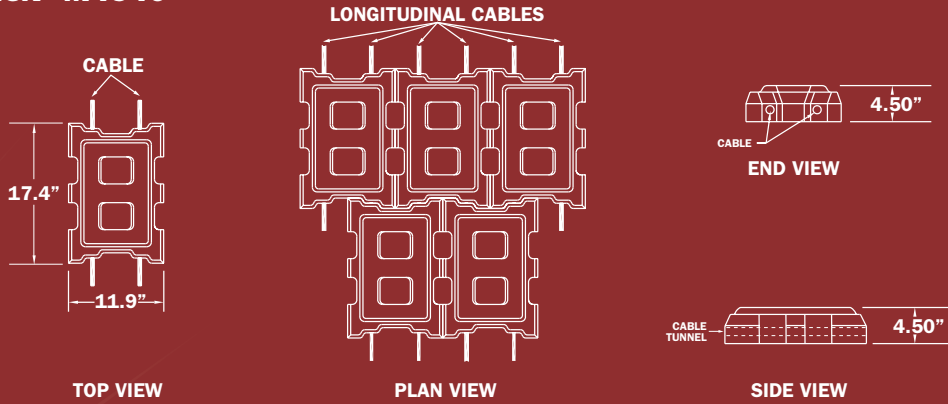
## UltraFlex™ Applications

- Dams and Spillways
- Riverbank Protection
- Channel Lining
- Bridge Abutments
- Boat Access and Ramps
- Roads (Temp/Haul)
- Shorelines
- Slope Protection
- Levees and Dikes
- Weirs and Overflow Channels
- Retention Basins
- Canals, Streams and Bayous
- Scour Protection
- Embankments
- Drainage Ditches
- Low-Water Stream Crossings
- Outfall Protection

Submar has achieved success in such a wide variety of applications by providing superior product performance, an ability to consistently manufacture product nationwide, outstanding technical support and customer service.



# UltraFlex™ M4540



# UltraFlex™ Characteristics

- Ideal for vegetative growth
- Environmentally friendly
- Traversable surface
- Time-tested strength
- Conforms to ground contours
- Durable and long-lasting performance
- Value-added erosion solutions
- National product availability
- Formal engineered submittals
- Site-specific customized mat sizes
- Installation assistance

## UltraFlex™ Revetment System Specifications

Unit		Dimensions			Coverage Area Sft/Unit	Unit Weight (LBS)	Weight (PSF)	Open Area %	
Size	Style	L	W	H				Bottom of Unit	Top of Unit
S4530	Open	13.0	11.9	4.5	1.00	32-37	32-37	20	30
S4545	Closed	13.0	11.9	4.5	1.00	40-46	40-46	10	15
S6050	Open	13.0	11.9	6.0	1.00	46-54	46-54	20	30
S6055	Closed	13.0	11.9	6.0	1.00	54-62	54-62	10	15
M4540	Open	17.1	11.9	4.5	1.33	42-49	32-37	20	30
M4545	Closed	17.1	11.9	4.5	1.33	53-61	40-46	10	15
M6050	Open	17.1	11.9	6.0	1.33	61-72	46-54	20	30
M6055	Closed	17.1	11.9	6.0	1.33	72-83	54-62	10	15
L4540	Open	17.1	15.9	4.5	1.75	64-73	36-42	20	30
L4545	Closed	17.1	15.9	4.5	1.75	80-92	46-52	10	15
L6050	Open	17.1	15.9	6.0	1.75	83-97	48-55	20	30
L6055	Closed	17.1	15.9	6.0	1.75	97-111	55-64	10	15
L9070	Open	17.1	15.9	9.0	1.75	124-142	71-81	20	30
L9085	Closed	17.1	15.9	9.0	1.75	149-172	85-98	10	15
XL4540	Open	17.4	23.9	4.5	2.67	90-106	34-40	20	30
XL4545	Closed	17.4	23.9	4.5	2.67	108-128	40-48	10	15
XL6050	Open	17.4	23.9	6.0	2.67	116-134	43-50	20	30
XL6055	Closed	17.4	23.9	6.0	2.67	139-163	52-61	10	15
XL9070	Open	17.4	23.9	9.0	2.67	173-201	65-75	20	30
XL9085	Closed	17.4	23.9	9.0	2.67	209-243	78-91	10	15

\* Compressive Strength: 4000 PSI (Minimum)

\*\* Maximum Absorption: 12.0 LBS FT<sup>3</sup> (Average of Three Units)

