

# SHEARFORCE 10

## SOFT ARMORING MAT

### HIGH-FLOW EROSION CONTROL MAT OFFERING IMMEDIATE PROTECTION PRIOR TO VEGETATION

ShearForce 10 is a soft armoring erosion control product consisting of a green, simulated turf backed with an engineered geotextile fabric. The simulated turf slows down water flow and protects the ground from erosion. In addition, the fabric holds the soil and seed in place and protects the root mass as vegetation is established. Often used in place of rip rap or traditional TRMs, this product is designed to facilitate vegetation and combat erosion in high-flow applications such as channels, canals, swales, basins and roadside ditches.

#### FEATURES

- Simulated vegetation
- Highly UV stable (25-yr design life) and weather resistant
- High performance/high flow protection (pre and post vegetation)
- Lightweight rolls
- Roll sizes: 3ft x 45ft & 6ft x 45ft rolls

#### BENEFITS

- **More user-friendly and cost efficient than rock rip rap**
- Simple installation — lay it and pin it
- Provides immediate protection against erosion
- Environmentally friendly (facilitates water filtration/infiltration)
- Promotes and protects vegetative growth
- Easy to transport and install without requiring machinery
- No maintenance required
- Mowable
- Aesthetically pleasing — both before and after vegetation
- Made in USA



Before Vegetation



After Vegetation



**Contact your local sales associate:**

Call **800-448-3636** or visit **FERGUSON.COM** to get started.

## APPLICATIONS

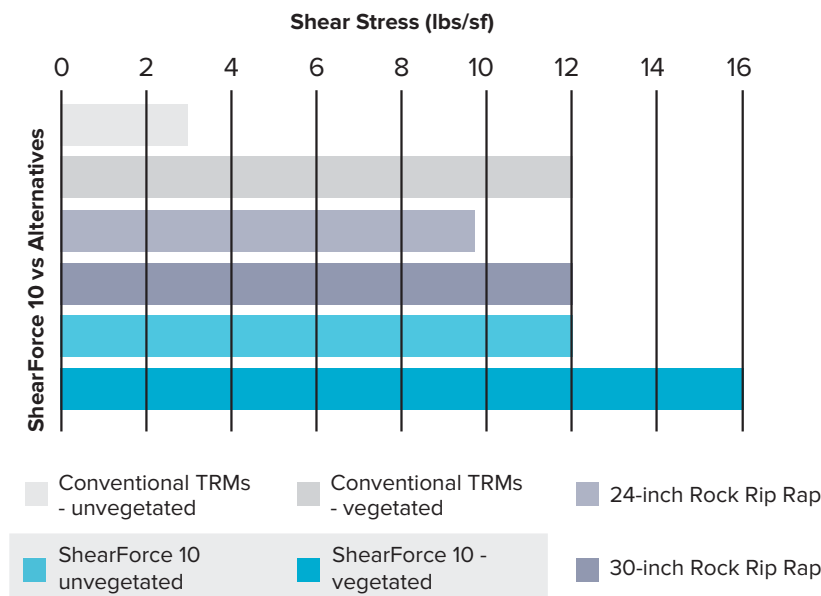
- High-flow channels
- Extreme slopes
- Areas where vegetation growth is slow and sparse
- Drainage swales
- Detention basins
- Banks / shorelines
- Canals / levees
- Solar panel driplines
- Easements
- Tight-quartered areas

## RECOMMENDED DESIGN VALUES\*

| CHANNELS / OUTFALLS / SPILLWAYS / STREAM BANKS |             |                     |                    |                 |                    | SLOPES             | SHORELINES      |
|------------------------------------------------|-------------|---------------------|--------------------|-----------------|--------------------|--------------------|-----------------|
| Vegetated                                      | Manning's n | Design Shear Stress |                    | Design Velocity |                    | Max Gradient (h:v) | Max Wave Height |
|                                                |             | Cohesive Soils      | Non-Cohesive Soils | Cohesive Soils  | Non-Cohesive Soils |                    |                 |
| No                                             | .025-.040   | 12 lbs/sf           | 10 lbs/sf          | 25 ft/sec       | 20 ft/sec          | >1:1               | <=1.0 ft        |
| Yes                                            | .025-.400   | 16 lbs/sf           | 14 lbs/sf          | 30 ft/sec       | 25 ft/sec          | >1:1               | <=1.5 ft        |

\*Design values are derived from ASTM D6460 large-scale channel testing on loam soils under 4 consecutive 30 minute flow events in 20% gradient test flumes. A safety factor of 1.25-2.0 may be applied in channel lining designs to account for longer flow durations, more erodible soils and varying side-slope gradients.

## PRODUCT COMPARISON



**SHEARFORCE 10 PROVIDES >3X THE IMMEDIATE CHANNEL EROSION PROTECTION WHEN COMPARED TO CONVENTIONAL TRMS AND MEETS OR EXCEEDS THAT OF 30" ROCK RIP RAP**

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