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SRW UltraDrive 3D

Base Replacement Grid

SRW UltraDrive 3D base replacement grid is manufactured from a unique extrusion technique resulting in a perforated polypropylene sheet that is specifically shaped to create a triplanar reinforcing structure. This unique extrusion process produces a large concave shaped rib to better trap aggregate materials by restricting the horizontal movement of stone particles and preventing displacement. Higher profile ribs and junctions improve interlock and stress distribution, thereby reducing rutting and aggregate base thickness.

SRW Ultradrive 3D meets or exceeds the physical property values listed below.

TECHNICAL CHARACTERISTICS	UNITS	MD VALUES ¹	XMD VALUES ¹
Rib Pitch ²	mm (in)	32 (1.26)	32 (1.26)
Rib Thickness ²	mm (in)	3.3 (0.13)	1.2 (0.05)
Rib Width ²	mm (in)	3.5 (0.14)	2.0 (0.08)
STRUCTURAL INTEGRITY			
True Initial Modulus ³	kN/m (lb/ft)	550 (37,700)	350 (24,000)
Radial Stiffness at low strain @ 0.5% Strain ⁶	kN/m (lb/ft)	321 (22,000)	
Apparent Coefficient of Friction Soil ⁷		1.25	
Overall Flexural Rigidity ⁵	mg-cm	2,100,000	
Aperture Stability ⁴	N-m/deg	0.45	
DURABILITY			
Resistance to Installation Damage ⁸	%SC / %SW / %GP	100 / 100 / 100	
Resistance to Long Term Degradation ⁹	%	100	
Resistance to UV Degradation ¹⁰	%	100	

ROLL SIZES: UltraDrive 3D is available in roll form measuring 6.5' (1.98m) x 150' (45.72m) and 12.5' (3.81m) x 150' (45.72m).

NOTES

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-11.
2. Nominal dimensions.
3. True Initial Modulus is determined in accordance with ASTM D6637-15.
4. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9-IN x 9-IN specimen restrained at its perimeter in accordance with ASTM D7864-15.
5. Resistance to bending force determined in accordance with ASTM D7748-14, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs, and of length sufficiently long to enable measurement of the overhang dimension.
6. Radial Stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-15. Tolerance +/-2%
7. Pullout testing is determined with ASTM D6706-13 by using a special apparatus that measures the force required to pull-out a geogrid that is fully embedded in soil with a vertical stress at 10kPa.
8. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress on clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818-11 and load capacity shall be determined in accordance with ASTM D6637.
9. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments.
10. Resistance to loss of load capacity or structural integrity when subjected to ultraviolet light and aggressive weathering.

Regards,

Joel R. Baker, Product Manager