



Engineering Design Data

Updated 1/2011

Physical Properties of SmartSlope C185 Module

Module weight without fill	Minimum 80.00 lbs
Cubic feet of infill per module including overburden	1.25 cf
Width as measured along bottom of face	20.00 inches
Depth into fill from face to tail	15.00 inches
Stacking/coursing height of side rails	8.00 inches
Peak face height of module	10.50 inches
Top surface of side rail width	1.25 inches
Length of exposed top rail	12.00 inches
Bottom thickness measured at center of trough	1.50 inches
Connection aperture distance from tail of trough	6.00 inches
Width of connection aperture	4.50 inches
Minimum 28 day compressive strength of concrete	5,000 psi
Module Center on Center Spacing	34.00 inches
Setback of successive courses when at natural 70 degree position	2.91 inches
Setback of successive courses with 60 degree spacer installed	4.62 inches
Setback of successive courses with 50 degree spacer installed	6.71 inches
Calculated lip shear value	5,090 lbs

Physical and Tested Properties of SmartGrid

LTDS

Width of strap for Paraweb 20 2e	1.77 inches	2,888 lbs
Width of strap for Paraweb 30 2d	3.30 inches	4,499 lbs
Width of strap for Paraweb 50 2d	3.30 inches	7,646 lbs
Width of strap for Paraweb 75 2d	3.30 inches	11,463 lbs
Width of strap for Paraweb 100 2d	3.30 inches	15,292 lbs
Minimum soil pullout of strap (C_i) for all three soil types		0.80
Minimum soil direct sliding on strap (C_{ds}) for all three soil types		0.80
Minimum connection strength to un-filled SmartSlope C185 modules		6,500 lbs
Minimum connection strength to soil-filled SmartSlope C185 modules		7,500 lbs
Spread of terminal ends of straps in "V" shape configuration		34.00 inches

Notes:

For additional information see published data sheets and laboratory test reports at www.smartslope.com
 Connection testing conducted at SGI Labs in Atlanta, Georgia, by Zehong Yuan