



## Engineering Design Data

### Physical Properties of SmartSlope C185 Module

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Module weight without fill	Minimum 77.00	lbs
Cubic feet of infill per module including overburden	62.00	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	5000.00	psi
Setback of successive courses when at natural 70 degree position	2.782	inches
Setback of successive courses with 60 degree spacer installed	4.616	inches
Setback of successive courses with 50 degree spacer installed	6.717	inches
Calculated lip shear value	5090.00	lbs

### Physical and Tested Properties of SmartGrid

LTD's

Width of strap for Paraweb 30 2d	3.30	inches	1370.90	lbs
Width of strap for Paraweb 50 2d	3.30	inches	2329.90	lbs
Width of strap for Paraweb 75 2d	3.30	inches	3494.60	lbs
Width of strap for Paraweb 100 2d	3.30	inches	4659.70	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	6500.00	lbs		
Minimum connection strength to soil-filled SmartSlope C185 modules	7500.00	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](http://www.smartslope.com)  
 Connection testing conducted at SGI Labs in Atlanta, Georgia, by Zehong Yuan  
 Paraweb is a product of Linear Composites, LTD. United States representative: Robert Lozano