

# LiveRoof® Stormwater Properties

LIVEROOF MODULE SIZE	LITE	STANDARD	DEEP	MAXX
Soil Depth	2.5 in (65 mm)	4.25 in (110 mm)	6 in (150 mm)	8 in (200 mm)
Fully Saturated Weight, <i>Maximum, varies by vegetation type and maturity level</i>	≤17 lbs/ft <sup>2</sup> (≤0.8 kPa)	≤29 lbs/ft <sup>2</sup> (≤1.4 kPa)	≤50 lbs/ft <sup>2</sup> (≤2.4 kPa)	≤65 lbs/ft <sup>2</sup> (≤3.1 kPa)
Maximum Water Holding Capacity	48.3% <span>ASTM E2397</span>			
Wilt Point of Plants	10%			
Maximum Available Capacity of Growing Medium to Hold Water	38.3%			
Growing Medium Maximum Moisture Storage	.96 in (24 mm) 0.6 gal/ft <sup>2</sup> (24.4 L/m <sup>2</sup> )	1.6 in (40 mm) 1 gal/ft <sup>2</sup> (41.3 L/m <sup>2</sup> )	2.2 in (55 mm) 1.3 gal/ft <sup>2</sup> (55.9 L/m <sup>2</sup> )	3 in (76 mm) 1.8 gal/ft <sup>2</sup> (76.2 L/m <sup>2</sup> )
Plant Moisture Storage (Sedums)	0.4 in (10 mm) 0.25 gal/ft <sup>2</sup> (10.1 L/m <sup>2</sup> )			
System Total Storm Water Storage (Assuming Initial Moisture 0.25 in / 6mm)	1.11 in (28 mm) 0.7 gal/ft <sup>2</sup> (28.2 L/m <sup>2</sup> )	1.75 in (44 mm) 1.1 gal/ft <sup>2</sup> (44.4 L/m <sup>2</sup> )	2.35 in (60 mm) 1.5 gal/ft <sup>2</sup> (59.7 L/m <sup>2</sup> )	3.15 in (80 mm) 2 gal/ft <sup>2</sup> (80 L/m <sup>2</sup> )
Growing Medium Water Permeability	0.434 in/min (0.018 cm/s) <span>saturated hydraulic conductivity, ASTM E2397</span>			



RoofBlue® RETAIN™

Maximum Water Holding Capacity of RoofBlue RETAIN module	2.16 in (55mm) 1.35 gal/ft <sup>2</sup> / 312 in <sup>3</sup> / 0.18ft <sup>3</sup> (55 L/m <sup>2</sup> )			
LIVEROOF MODULE SIZE	LITE	STANDARD	DEEP	MAXX
<b>Maximum Water Volume Retention</b> (LiveRoof Module + RoofBlue RETAIN)	3.17 in (83mm) 2.05 gal/ft <sup>2</sup> (83.5 L/m <sup>2</sup> )	3.91 in (99mm) 2.45 gal/ft <sup>2</sup> (99.8 L/m <sup>2</sup> )	4.51 in (115mm) 2.85 gal/ft <sup>2</sup> (116 L/m <sup>2</sup> )	5.31 in (135mm) 3.35 gal/ft <sup>2</sup> (136.5 L/m <sup>2</sup> )
<b>Maximum Saturated Weight of System</b> (LiveRoof Module + RoofBlue RETAIN)	≤29.5 lbs/ft <sup>2</sup> (≤1.4 kPa)	≤41.5 lbs/ft <sup>2</sup> (≤2 kPa)	≤62.5 lbs/ft <sup>2</sup> (≤3 kPa)	≤77.5 lbs/ft <sup>2</sup> (≤3.7 kPa)



RoofBlue® DETAIN™

for use with control-flow drains

Maximum Water Depth	3.5 in (89 mm)
Void Space	90.5%
Maximum Water Volume <b>Detention</b> below the green roof system	456 in <sup>3</sup> / 0.26 ft <sup>3</sup> (7472 cm <sup>3</sup> ) 1.97 gal/ft <sup>2</sup> (80.3 L/m <sup>2</sup> )
Maximum Weight in addition to green roof system	18.2 lbs/ft <sup>2</sup> (0.87kPa)