

## Product Description

NL350 is a 5 mm thick drainage and detention layer that serves to detain intense rain events while allowing small rain events to flow unimpeded. NL350 is a flexible layer comprised of approximately 1,800 vertically oriented nylon fibers between two knit layers of tightly woven polyester fabric. The dense network of fibers creates friction and turbulence of flow in a calculated manner, resulting in measurable detention.



## Technical Data

### Mechanical Properties

- Thickness 5mm (ASTM D1777)
- Thread Count 280 threads per cm<sup>2</sup> (1800 threads per sq in)

### Compression Resistance

Weight Applied:	Compression Loss: (% of manufactured thickness +/- 2%)
▪ 145 kg/m <sup>2</sup> (30 lbs/sf)	3%
▪ 300 kg/m <sup>2</sup> (60 lbs/sf)	4%
▪ 2000 kg/m <sup>2</sup> (400 lbs/sf)	10%

### Packaging Properties

- Length per roll: 50 m (164 ft)
- Width of roll: 1 m (3.28 ft)
- Weight per roll: 27 kg (60 lb)
- Shipping: 4 rolls per pallet

## Recommended Application

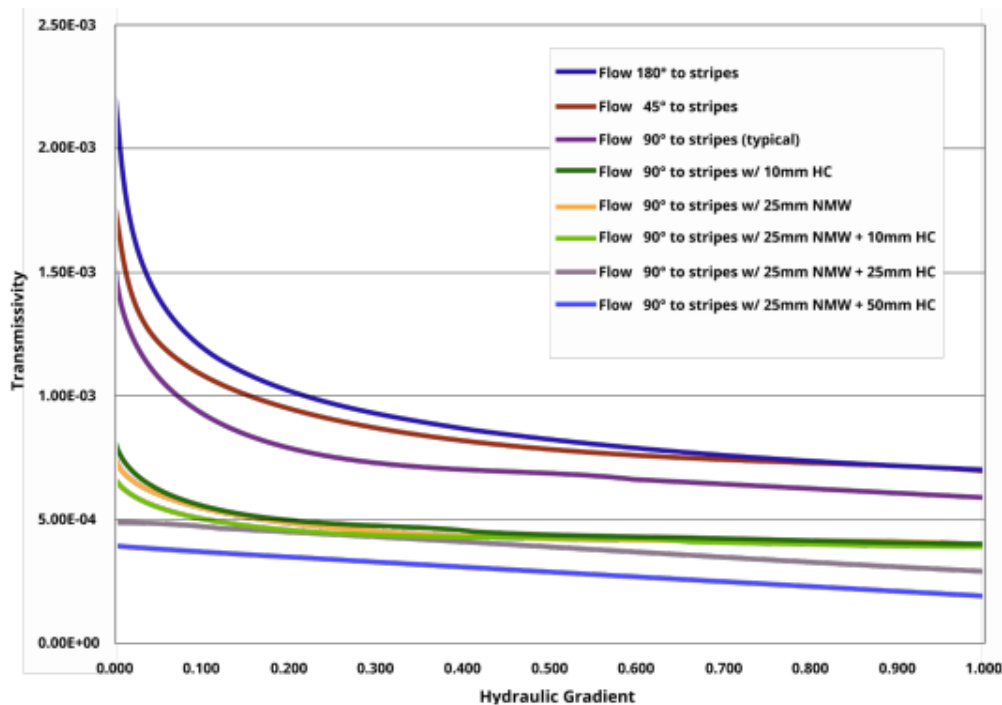
- No layer, other than the root barrier, waterproofing membrane or extruded polystyrene insulations, should be below the detention layer.
- Align the detention layer so that stripes are perpendicular to the predominant direction of water flow.
- Install the detention layer continuously below the green roof assembly with tight joints. Overlap joints 100mm (4") at short ends of rolls.
- Cover the detention layer with at least 25 mm (1") mineral wool, which acts as a high quality filter.
- Restrict horizontal flow within the green roof to only the detention layer. This involves multiple detailing consideration.
- All edging shall be non-perforated (solid-wall) edging. The detention layer shall tightly abut any edge containment. Avoid conditions that allow water to bypass the detention layer.
- Locations where the detention layer flows out to drains shall be installed to the specified lengths.

Hydraulic Gradient m <sup>3</sup> /s/m (m <sup>2</sup> /s)	Minimum Transmissivity m <sup>3</sup> /s/m (m <sup>2</sup> /s)	Maximum Transmissivity m <sup>3</sup> /s/m (m <sup>2</sup> /s)
0.017	1.10E-03	1.40E-03
0.050	9.00E-04	1.20E-03
0.100	8.00E-04	9.95E-04
0.667	5.50E-04	7.00E-04
1.000	5.30E-04	6.50E-04

## Transmissivity

Complying with the specifications per ASTM D4716, for the detention layer in isolation (transmissivity differs in combination with other components which shall be tested separately).

*Transmissivities of the detention layer at hydraulic gradient of 0.008 to 1.00 in multiple different orientations and layer configurations. Inquire for specific properties of a given configuration.*



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