

# TECHNICAL SPECIFICATIONS

## N O P H A D R A I N<sup>®</sup> P R O D U C T S

	100 and 120	200 and 220	600 and 620	4 + 1	5 + 1	STRIP
<b>Geotextile</b>						
Material	polypropylene	polypropylene	polypropylene	polypropylene	polypropylene	polypropylene
Filter fabric	non-woven	non-woven	woven	non-woven	non-woven	non-woven
Weight in gr/m <sup>2</sup>	140	140	220	140	140	140
<b>Core</b>						
Material	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene
Thickness in mm	6,35	11,11	11,11	11,11	25,40	25,40
Compressive strength in kN/m <sup>2</sup>	383	712	862 - 1100*	712	383	383
<b>Perforations</b>						
Flow perforations in l/sec/m <sup>2</sup>	-	-	-	2,00	4,00	-
Water reservoir in l/m <sup>2</sup>	-	-	-	1,60	3,20	-
Perforations per m <sup>2</sup> ±	-	-	-	1570	550	-
Diameter perforations in mm	-	-	-	6,70	17,00	-
<b>Pressure dividing backing / separation geotextile</b>						
	(only 120)	(only 220)	(only 620)			
Material	polypropylene	polypropylene	polypropylene	polypropylene	polypropylene	-
Fabric	film	film	film	geotextile	geotextile	-
Thickness in µm	130	130	130	-	-	-
Weight in gr/m <sup>2</sup>	-	-	-	135	135	-
<b>Dimensions (+/- 2%)</b>						
Width in cm	125	125	125	125	125	15/30/45/60/90
Length in m	32	32	32	32	20	30,5/50
Surface per roll in m <sup>2</sup>	40	40	40	40	25	-
<b>Vertical Drainage - Wall i = 1</b>						
Flow in l/sec/m						
Pressure	Depth of installation					
0 kN/m <sup>2</sup>	0,0 m	2,80	4,70	-	-	-
30 kN/m <sup>2</sup>	3,0 m	2,00	4,20	4,10	-	-
50 kN/m <sup>2</sup>	5,0 m	1,90	4,10	4,00	-	-
100 kN/m <sup>2</sup>	10,0 m	1,80	3,90	3,90	-	-
200 kN/m <sup>2</sup>	Exceptional case	1,60	3,60	3,80	-	-
<b>Horizontal Drainage - gradient i in %</b>						
□ Flow in l/sec/m    △ Drainage length (Precipitation in meters 0,03 l/sec/m <sup>2</sup> )						
<b>i = 2%</b>						
Pressure						
10 kN/m <sup>2</sup> Low maintenance green roof	□ 0,18    △ 6,00	□ 0,50    △ 16,70	□ 0,35    △ 11,70	□ 0,50    △ 16,70	□ 1,81    △ 60,00	-    -
20 kN/m <sup>2</sup> Regular maintenance green roof	□ 0,16    △ 5,25	□ 0,47    △ 15,70	□ 0,33    △ 11,00	□ 0,47    △ 15,70	□ 1,79    △ 59,00	-    -
100 kN/m <sup>2</sup> Exceptional case	-    -	□ 0,40    △ 13,30	□ 0,29    △ 9,70	□ 0,40    △ 13,30	□ 1,65    △ 55,00	-    -
200 kN/m <sup>2</sup> Exceptional case	-    -	□ 0,35    △ 11,70	□ 0,27    △ 9,00	□ 0,35    △ 11,70	□ 1,58    △ 52,00	-    -
<b>i = 3%</b>						
Pressure						
10 kN/m <sup>2</sup> Low maintenance green roof	□ 0,25    △ 8,25	□ 0,64    △ 21,30	□ 0,47    △ 15,70	□ 0,64    △ 21,30	□ 2,41    △ 80,00	-    -
20 kN/m <sup>2</sup> Regular maintenance green roof	□ 0,23    △ 7,50	□ 0,61    △ 20,30	□ 0,44    △ 14,70	□ 0,61    △ 20,30	□ 2,38    △ 79,00	-    -
100 kN/m <sup>2</sup> Exceptional case	-    -	□ 0,51    △ 17,00	□ 0,40    △ 13,30	□ 0,51    △ 17,00	□ 2,18    △ 72,00	-    -
200 kN/m <sup>2</sup> Exceptional case	-    -	□ 0,47    △ 15,70	□ 0,37    △ 12,30	□ 0,47    △ 15,70	□ 2,09    △ 69,00	-    -
<b>i = 0%</b>						
Pressure						
≤ 2 kN/m <sup>2</sup> Low maintenance green roof	-    -	-    -	-    -	-    -	□ 0,36    △ 12,00	-    -
≤ 10 kN/m <sup>2</sup> Regular maintenance green roof	-    -	-    -	-    -	-    -	□ 0,30    △ 10,00	-    -
<b>Applications a.o.</b>						
Basement, foundation and retaining walls	✓	✓	✓	-	-	-
Replacement of drain pipes and french drains	-	-	-	-	-	✓
Plaza decks	-	✓	✓	✓	✓	-
Parking decks	-	-	✓	-	-	-
Regular maintenance green roofs	-	-	✓	✓	✓	-
Low maintenance green roofs	-	✓	-	✓	✓	-
Inverted roofs regular/low maintenance	-	-	-	✓	✓	-
Roofs without slope (0°)	-	-	-	-	✓	-
Low maintenance single layer green roofs at a slope of < 5%	-	-	-	-	-	✓
Golf courses, sports fields and road constructions	-	-	-	-	-	✓
	100 and 120	200 and 220	600 and 620	4 + 1	5 + 1	STRIP

\* the compressive strength of 1100 kN/m<sup>2</sup> is only valid for the Nophadrain<sup>®</sup> 600 HD and 620 HD (high density)

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without prior notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.