

Wallbarn Protecto-drain 8

Technical features	Technical data	Test Method
Material	High density polyethylene (HDPE)	
Roll width Roll length	2 metres 20 metres	calibrated measuring tape calibrated measuring tape
Roll weight	550 gsm (±10%)	calibrated measuring tape calibrated thickness measuring tape
Rolls per pallet	12	
Compression strength Height of cups	250 kN per m ² 8mm	MDV MDV
Number of cups	1500 pieces per m ²	MDV
Air volume between the cups	5.5 litres per m ²	MDV
Water drainage capacity Temperature tolerance	4.6 litres per m ² - 30°C to + 80°C	MDV MDV
Reaction to fire	B2 (B1 available by special request)	DIN 4102
Physical characteristics	Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards under normal use	

Application

Used as a mechanical protection against soil and root movement along foundation walls. It can be installed with a 20cm overlap and fixed with nails and sealing buttons 5 cm from the top edges of the roll and 20cm from each roll. Edging profile is installed to prevent soil ingress into the cavity. Maximum build-up 8 metres high.

Laid horizontally and fixed using sealing tape in the overlapping areas the sheets protect concrete flooring form rising damp and keep reinforcement mesh in place firmly during the concrete works.

Storage and handling

Protect against prolonged exposure to direct sunlight and temperatures over 25 °C

Guarantee / warranty

When used in the correct manner and application, the material will be rot proof for 20 years. Wallbarn application rules and proper site storage, handling and installation practices must be carried out as a prerequisite for any possible future warranty claims.

Health and safety

No known dangerous substances. No health hazards under normal use

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Wallbarn Protecto-drain G8

Filter material Roll width Roll width Roll length Roll length Roll weight Rolls per pallet Height of cups Compression strength Number of cups Resistance to water penetration Tensile strength MD Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire Polypropylene geotextile (100gsm) 2 metres calibrated measuring tape	Technical features	Technical data	Test Method	
Roll width Roll length Roll weight Rolls per pallet Height of cups Compression strength Number of cups Resistance to water penetration Tensile strength MD Tensile strength MD Resistance to tearing MD Resistance to tearing MD Resistance to tearing MD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire Physical characteristics Roll weight 15 metres 16 calibrated measuring tape 650 gsm (±10%) 650 gsm (±10%) 8 measuring tape Abov Abov EN 1928 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12310-1 EN 1296 & EN 13984 EN 1296 & EN 1296 & EN 13984 EN 1296 & EN 1296 & EN 13984 EN 1296 &	Membrane material	High density polyethylene (HDPE)		
Roll length Roll weight Rolls per pallet Height of cups Compression strength Number of cups Resistance to water penetration Tensile strength MD Tensile strength MD Tensile strength MD Resistance to tearing CMD Resistance to tearing MD Re	Filter material			
Roll weight Rolls per pallet Height of cups Compression strength Number of cups Resistance to water penetration Tensile strength MD Tensile strength CMD Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing CMD All Calibrated thickness measuring tape ADV MDV EN 1928 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12310-1 EN 12310-1 EN 12310-1 EN 12310-1 EN 12730 EN 1296 & EN 13984 Waterproof / passed Waterproof 5.5 litres per m² 4.6 litres per m² - 30°C to + 80°C MDV Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Roll width	2 metres	calibrated measuring tape	
Rolls per pallet Height of cups Compression strength Number of cups Resistance to water penetration Tensile strength MD Tensile strength CMD Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire 66	Roll length	15 metres		
Belight of cups Semm MDV	Roll weight	650 gsm (±10%)		
Compression strength Number of cups Resistance to water penetration Tensile strength MD Tensile strength CMD Tens	Rolls per pallet	6		
Number of cups Resistance to water penetration Tensile strength MD Tensile strength CMD Elongation MD Elongation CMD Elongation CMD Resistance to tearing MD Resistance to tearing MD Resistance to tearing CMD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire 1500 pieces per m² W1 EN 1928 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12310-1 EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 12910-1 EN 1296 & EN 13984 EN 12910-1 EN 1296 & EN 13984 EN 12910-1 EN 12910-1 EN 1296 & EN 13984 EN 12910-1 EN 12910-1 EN 12910-1 EN 1296 & EN 13984 EN 12910-1 EN	Height of cups	8mm	MDV	
Resistance to water penetration Tensile strength MD Tensile strength CMD Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing CMD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire W1 EN 1928 EN 12311-2 EN 12311-2 EN 12311-2 EN 12311-2 EN 12310-1 Ro perforation at 200 N in 24 hrs waterproof / passed Waterproof 5.5 litres per m² - 30°C to + 80°C MDV Reaction to fire B2 (B1 available by special request) Physical characteristics	Compression strength	250 kN per m ²	MDV	
Tensile strength MD Tensile strength CMD Elongation MD Elongation CMD Elongation CMD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire Physical characteristics ≥ 330 N / 50mm EN 12311-2 ≥ 28.7 N EN 12311-2 EN 12310-1 EN 12	Number of cups	1500 pieces per m ²	MDV	
Tensile strength CMD Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire ≥ 335 N / 50mm EN 12311-2 ≥ 26.2 N EN 12310-1 ≥ 349 N EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 1297	Resistance to water penetration	W1	EN 1928	
Elongation MD Elongation CMD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire EN 12311-2 ≥ 26.2 N EN 12310-1 ≥ 349 N No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 12310-1 No perforation at 200 N in 24 hrs EN 12310-1 No perforation at 200 N in 24 hrs EN 12310-1 EN	Tensile strength MD	≥ 330 N / 50mm	EN 12311-2	
Elongation CMD Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire ≥ 26.2 N ≥ 332 N EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 12310-1 EN 12780 EN 1296 & EN 13984 EN 12310-1 EN 1250	Tensile strength CMD	≥ 335 N / 50mm	EN 12311-2	
Resistance to tearing MD Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire ≥ 332 N EN 12310-1 EN 12310-1 No perforation at 200 N in 24 hrs waterproof / passed EN 1296 & EN 13984 EN 1296 & EN 13984 EN 12310-1 EN 12	Elongation MD	≥ 28.7 N	EN 12311-2	
Resistance to tearing CMD Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire ≥ 349 N No perforation at 200 N in 24 hrs waterproof / passed EN 12310-1 EN 12730 EN 1296 & EN 13984 Solution of Physical characteristics ≥ 349 N No perforation at 200 N in 24 hrs EN 1296 & EN 13984 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 124 NO EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12310-1 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 12730 EN 1296 & EN 1296 & EN 13984 EN 1296 & E	Elongation CMD	≥ 26.2 N	EN 12311-2	
Resistance to static loading Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire No perforation at 200 N in 24 hrs waterproof / passed Find 12730 EN 1296 & EN 13984 Waterproof 5.5 litres per m² - 30°C to + 80°C MDV B2 (B1 available by special request) Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Resistance to tearing MD	≥ 332 N	EN 12310-1	
Durability Exposure to liquid chemicals Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire MDV MDV	Resistance to tearing CMD	≥ 349 N	EN 12310-1	
Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire B2 (B1 available by special request) Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Resistance to static loading	No perforation at 200 N in 24 hrs	EN 12730	
Air volume between the cups Water drainage capacity Temperature tolerance Reaction to fire B2 (B1 available by special request) Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Durability	waterproof / passed	EN 1296 & EN 13984	
Water drainage capacity Temperature tolerance Reaction to fire B2 (B1 available by special request) Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Exposure to liquid chemicals	waterproof		
## A.6 litres per m² - 30°C to + 80°C MDV ## B2 (B1 available by special request) B2 (B1 available by special request) DIN 4102 Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Air volume between the cups	5.5 litres per m ²		
Reaction to fire B2 (B1 available by special request) Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Water drainage capacity	4.6 litres per		
Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards	Temperature tolerance	- 30°C to + 80°C	MDV	
Physical characteristics chemicals. Not harmful to drinking water. No health hazards	Reaction to fire	B2 (B1 available by special request)	DIN 4102	
• • • • • • • • • • • • • • • • • • •		Rot-proof, resistant to fungus and bacteria. Will not leach		
under normal use	Physical characteristics	chemicals. Not harmful to drinking water. No health hazards		
under normal dae	-	under normal	use	

Storage and handling

Protect against prolonged exposure to direct sunlight and temperatures over 25 °C

Guarantee / warranty

When used in the correct manner and application, the material will be rot proof for 20 years. Wallbarn application rules and proper site storage, handling and installation practices must be carried out as a prerequisite for any possible future warranty claims.

Health and safety

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Wallbarn Protecto-drain 20

Technical features	Technical data	Test Method
Material	High density polyethylene (HDPE)	
Roll width Roll length	2 metres 20 metres	calibrated measuring tape calibrated measuring tape
Roll weight	1,000 gsm (±10%)	calibrated thickness measuring tape
Rolls per pallet	5	
Compression strength	180 kN per m ²	MDV
Height of cups	20mm	MDV
Air volume between the cups	14 litres per m ²	MDV
Water drainage capacity	10 litres per m ²	MDV
Temperature tolerance	- 30°C to + 80°C	MDV
Reaction to fire	B2 (B1 available by special request)	DIN 4102
Physical characteristics	Rot-proof, resistant to fungus and bacteria. Will not leach chemicals. Not harmful to drinking water. No health hazards under normal use	

Application

Used as a mechanical protection against soil and root movement along foundation walls. It can be installed with a 20cm overlap and fixed with nails and sealing buttons 5 cm from the top edges of the roll and 20cm from each roll. Edging profile is installed to prevent soil ingress into the cavity. Maximum build-up 8 metres high.

Laid horizontally and fixed using sealing tape in the overlapping areas the sheets protect concrete flooring form rising damp and keep reinforcement mesh in place firmly during the concrete works.

Storage and handling

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Guarantee / warranty

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Wallbarn Protecto-drain 20P

Technical features	Technical data	Test Method
Material	High density polyethylene (HDPE)	
Roll width	2 metres	calibrated measuring tape
Roll length	20 metres	calibrated measuring tape
Roll weight	550 gsm (±10%)	calibrated thickness measuring tape
Rolls per pallet	5	
Compression strength	180 kN per m²	MDV
Height of cups	20mm	MDV
Air volume between the cups	14 litres per m ²	MDV
Water drainage capacity	10 litres per m ²	MDV
Temperature tolerance	- 30°C to + 80°C	MDV
Reaction to fire	B2 (B1 available by special request)	DIN 4102
Physical characteristics	Rot-proof, resistant to fungus and chemicals. Not harmful to drinking under normal use	

Application

Used as a drainage and reservoir membrane for EXTENSIVE green roof applications. It can be installed by loose laying and overlapping cups by 20 cm then covering immediately with substrate / soil to ballast membrane. Compliant with green roof standard UNI 11235:2007

Storage and handling

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