

EASYWAY TO GREEN ROOF



AQUADESK

Retention and vegetation board



1021 - CPR - 040 / 2018



Characteristics: Thermobonded board for designing of green roof compositions

Material content: Recycled polyester

Certification: The product is certified according to Standard EN 13252:2016
Quality Management System ISO 9001, ISO 14001, ISO and ISO 50001

Follow-up documentation: DoP: AQUADESK 2000 - TL20 - 2018-1 and AQUADESK 3000 - TL30 - 2018-1

Properties:



EASY
INSTALLATION



QUICK
INSTALLATION



PROTECTION OF
HYDRO INSULATION



MADE FROM
RECYCLED
MATERIALS



ACCOUSTIC AND
THERMO INSULATION



MADE IN
CZECH REPUBLIC

Function:



WATER
RETENTION



DRAINAGE



PROTECTION

Regular use: Retention, drainage and vegetation layers on green roofs.



EXTENSIVE FLAT
GREEN ROOFS



EXTENSIVE SLOPE
GREEN ROOFS

Material specification sheet

Date of Issue: 01. 01. 2020

No.: N-001-4



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Technical parameters

	AQUADESK	2000 TL 20	3000 TL 30	4000 TL 40	tolerance
PHYSICAL PROPERTIES					
Mass per unit area / EN ISO 9864	g/m ²	2000	3000	4000	± 15 %
Mass of fully saturated board	kg/m ²	13	22	32	± 15 %
Thickness 0,5 kPa / EN ISO 9073-2	mm	20	30	40	± 15 %
MECHANICAL PROPERTIES					
Compressibility / ČSN EN12431	%	20	20	20	
Tensile strenght / EN ISO 10319	kN/m	0,7	1,3		-0,2
		0,6	0,7		-0,2
Dynamic stiffness / ČSN ISO 9052-1	MPa/m	11,5	8,2	7,3	
Dynamic perforation resistance / EN ISO 13433	mm	47	37		+3
HYDRAULIC PROPERTIES					
Maximum water capacity - slope 0°	l/m ²	12	20	29	
Off-flow characteristics	Attachment No. 1				
Characteristic opening size O ₉₀ / EN ISO 12956	µm	145	132		±15 %
Water permeability (VIh50) / EN ISO 11058	l/m ² .s	4,42·10 ⁻²	3,71·10 ⁻²		±20%
Water permeability in the plane (longitudinal direction) / hydraulic slope 0,1 = 5° / EN ISO 12958	0,15 kPa = 15 kg/m ²	3,27·10 ⁻²	2,86·10 ⁻²	4,16·10 ⁻²	
	0,50 kPa = 51 kg/m ²	3,06·10 ⁻²	3,14·10 ⁻²	4,51·10 ⁻²	
	1 kPa = 102 kg/m ²	2,82·10 ⁻²	3,07·10 ⁻²	4,45·10 ⁻²	
	20 kPa = 2,04 t/m ²	6,35·10 ⁻³	1,01·10 ⁻²	1,88·10 ⁻²	
	100 kPa = 10,2 t/m ²	7,6·10 ⁻⁴	1,41·10 ⁻³	2,14·10 ⁻³	
Water permeability in the plane (longitudinal direction) / hydraulic slope 1 = 45° / EN ISO 12958	200 kPa = 20,4 t/m ²	3,84·10 ⁻⁴	5,34·10 ⁻⁴	1,12·10 ⁻³	
	0,15 kPa = 15 kg/m ²	2,86·10 ⁻¹	2,57·10 ⁻¹	3,78·10 ⁻¹	
	0,50 kPa = 51 kg/m ²	2,77·10 ⁻¹	2,99·10 ⁻¹	4,31·10 ⁻¹	
	1 kPa = 102 kg/m ²	2,64·10 ⁻¹	2,86·10 ⁻¹	4,30·10 ⁻¹	
	20 kPa = 2,04 t/m ²	6,1·10 ⁻²	9,83·10 ⁻²	1,88·10 ⁻¹	
100 kPa = 10,2 t/m ²	7,33·10 ⁻³	1,35·10 ⁻²	2,1210 ⁻²		
200 kPa = 20,4 t/m ²	3,33·10 ⁻³	5,12·10 ⁻³	9,96·10 ⁻³		
INSULATION PROPERTIES					
Thermal conductivity-laboratory humidity / EN 12667	W/m*K	0,038	0,038	0,038	
Thermal conductivity-saturated state / EN 12664	W/m*K	0,142	0,142	0,142	
Sound absorption / ČSN ISO 10534-1	Attachment No. 2				
FIRE CLASSIFICATION					
Reaction to fire EN 13501-1		E	E	E	
CHEMICAL PROPERTIES					
pH reaction		Neutral	Neutral	Neutral	
Properties	Without hazardous chemicals and solvents				
DIMENSIONS					
Delivered format		board	board	board	
Width	cm	60	60	60	± 2 cm
Length	cm	120	120	120	± 2 cm
PACKAGING, STORAGE and DISPOSAL					
Pallet dimension	cm	120x120	120x120	120x120	
Number of boards per pallet	ks	200	134	100	
	m ²	144	96,48	72	
Appr. weight of pallet	kg	300	300	300	
Storage	Under roof, in dry places				
Disposal	The product can be recycled				

The data was measured at the laboratories of RETEX a.s., Brno University of Technology and the Textile Institute Brno, and are for informative purpose only.