Technical Data ISO-DRAIN Special Sheets

ISO-DRAIN

	Property	Standard/Norm	Unit	ISO-DRAIN eco 2+2 G	ISO-DRAIN eco 2+2 GS	ISO-DRAIN eco 4+4 G	ISO-DRAIN eco 4+4 GS	ISO-DRAIN eco 8 G	ISO-DRAIN eco 8 GS	ISO-DRAIN eco 10 G	ISO-DRAIN eco 10 GS	ISO-DRAIN eco 20 G / eco 20 GP
Core Product	Resin	---	---	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE
	Colour	---	---	black	black	black	black	black	black	black	black	black
	Area weight	DIN EN 12127	g/m²	400	400	600	600	500	500	600	600	1.000
	Dimple height	---	mm	2+2	2+2	4+4	4+4	8	8	10	10	20
	Dimple spacing	---	pcs/m²	22,500	22,500	10,000	10,000	1,860	1,860	3,364	3,364	400
	Air gap (between dimples)	---	l/m²	2.0	2.0	5.5	5.5	5.3	5.3	7.9	7.9	14
	Compressive strength	EN ISO 25619-2	kN/m²	370	370	280	280	250	250	420	420	240
	Dimensions	---	m	2.20 x 20,00	2.20 x 20,00	2.00 x 20,00	2.00 x 20,00	2.00 x 20,00 2.50 x 20.00	2.00 x 20,00 2.50 x 20.00	2.00 x 12.50	2.00 x 12.50	2.00 x 12.50
	Perforation	---	mm	---	---	---	---	---	---	---	---	--- / 2 x 9
Lamitation 1	Resin	---	---	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Area weight	DIN EN 12127	g/m²	100	100	110	110	110	110	136	136	136
Lamitation 2	Resin	---	---	---	PE	---	PE	---	PE	---	PE	---
	Area weight	DIN EN 12127	g/m²	---	100	---	100	---	100	---	100	---
Geotextile	Tensile strength	EN ISO 10319	kN/m	8.0	8.0	7.0	7.0	7.0	7.0	9.0	9.0	9.0
	Puncture (CBR)	EN ISO 12236	N	1,240	1,240	1,000	1,000	1,000	1,000	1,250	1,250	1,250
	Dynamic cone puncture	EN 918	mm	34	34	35	35	35	35	29	29	29
	Opening size	EN ISO 12956	µm	120	120	140	140	140	140	120	120	120
	Permeability	EN ISO 11058	10^{-3} m/s	110	110	70	70	70	70	50	50	50
Geocomposite	Area weight	EN ISO 9864	g/m²	500	600	710	810	610	710	740	840	1,140
	Drainage capacity	EN ISO 12958, i=1	l/(ms)	0.5	0.5	0.84	0.84	2.1	2.1	3.5	3.5	7.5
	Tensile strength (MD)	EN ISO 10319	kN/m	12.0	12.0	13.6	13.6	15.1	15.1	15.4	15.4	19.2
	Tensile strength (CMD)	EN ISO 10319	kN/m	13.0	13.0	14.7	14.7	15.1	15.1	16.8	16.8	20.8
	Strain at maximum load	EN ISO 10319	%	42	42	50	50	42	42	50	50	60
	CE Certificate	EN ISO 13252	---	yes	yes	yes	yes	yes	yes	yes	yes	yes
General	Service temperature range	---	°C	-40 - +80								
	Storage	---	---	protect from UV radiation								
	Physiological properties	---	---	resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, rot proof								

All figures are to be understood as approximate values. Evaluation of suitability for any specific application is always the sole responsibility of the customer.

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ISO-DRAIN

	Property	Standard/Norm	Unit	ISO-DRAIN 3 F	ISO-DRAIN 3 M	ISO-DRAIN eco 8 F	ISO-DRAIN 8 M
Core Product	Resin	---	---	HDPE	HDPE	HDPE	HDPE
	Colour	---	---	yellow	yellow	black	translucent
	Area weight	DIN EN 12127	g/m²	500	500	600	600
	Dimple height	---	mm	3	3	8	8
	Dimple spacing		pcs/m²	2,500	2,500	1,150	1,150
	Air gap (between dimples)	---	l/m²	3.6	3.6	---	5.5
	Compressive strength	EN ISO 25619-2	kN/m²	320	320	200	185
	Dimensions	---	m	1.00 x 30.00 2.00 x 30.00	1.00 x 30.00 2.00 x 30.00	2.00 x 20.00 ---	2.00 x 10.00 ---
Lamitation 1	Resin	---	---	---	---	PE	---
	Thickness	ISO 1923	mm	---	---	3	---
Lamitation 2	Resin	---	---	PE	PE	---	PE
	Area weight	DIN EN 12127	g/m²	---	45	---	45
	Thickness	ISO 1923	mm	3	---	3	---
Mesh	Tensile Strength	EN ISO 13934-1	N/5 cm	---	400	---	400
	Elongation	EN ISO 13934-1	%	---	> 10	---	> 10
Foam	Gross density	ISO 845	kg/m³	33	---	33	---
	Water absorption after 28 days	EN ISO 2896	Vol. %	< 1	---	< 1	---
Composite	Area weight	EN ISO 9864	g/m²	530	550	630	650
	Footfall sound reduction value	ISO 140-8	dB	30	---	30	---
	CE Certificate	EN ISO 13967	---	yes	yes	yes	yes
General	Service temperature range		°C	-40 - +80			
	Storage		---	protect from UV radiation			
	Physiological properties		---	resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, rot proof			

All figures are to be understood as approximate values. Evaluation of suitability for any specific application is always the sole responsibility of the customer.

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