alphamesh
innovative mesh design

7.0

Data sheet alphamesh 7.0 x 0.7 stainless steel

Diameter: 7.00 mm
Wire gauge: 0.70 mm

Weight: c. 2.2 kg/m²

Rings per linear meter: 142.9

Open area: c. 60%

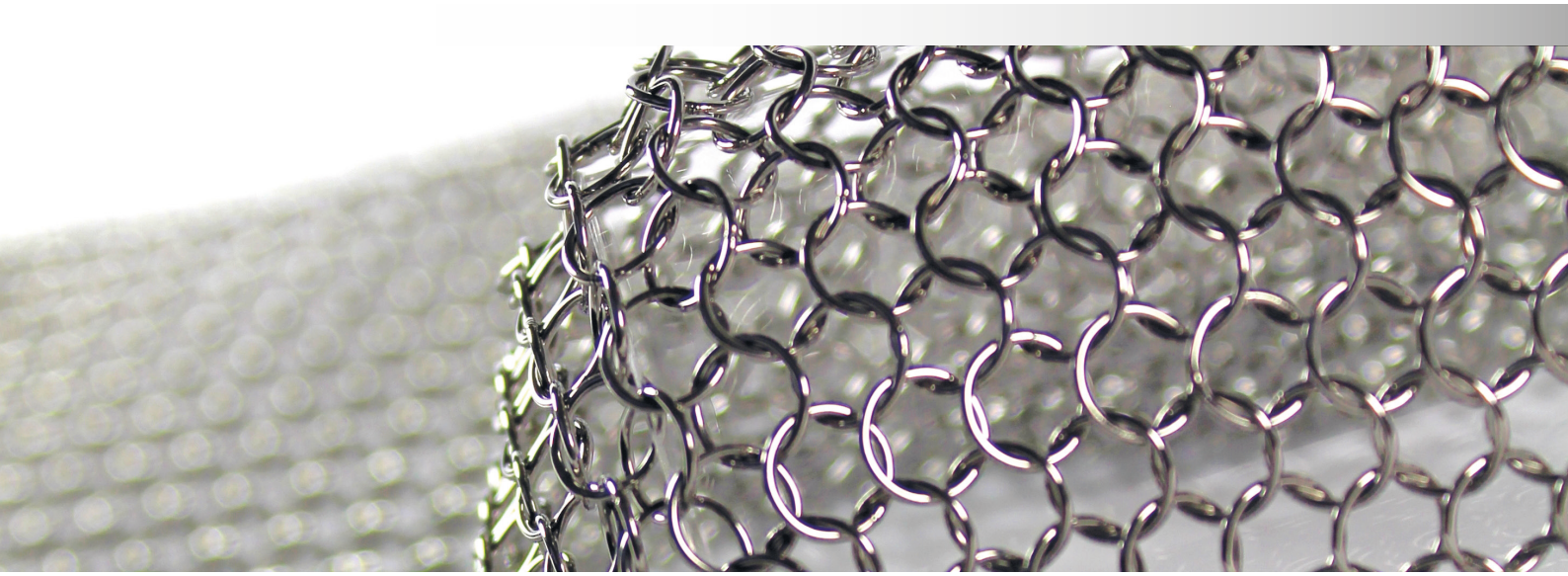
Max. standard dimensions
Width: up to 5.00 m
Height: max. 5.00 m
Further dimensions on request

Material: stainless steel 1.4404
Further materials on request

Rings per m²: c. 37000

Tensile strength [kN/m]: 23

Surface:
polished/ matt - waxed



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Solar and photometric values alphamesh 7.0 x 0.7 according to EN 410

Transmission

	$\tau_{nh.solar}$	$\tau_{nh.VIS}$	$\tau_{nh.UV}$
polished	0.64	0.64	0.63
matt	0.60	0.59	0.59

Reflection

	$\rho_{nh.solar}$	$\rho_{nh.VIS}$	$\rho_{nh.UV}$
polished	0.15	0.14	0.10
matt	0.06	0.05	0.04

Absorption

	α_{solar}	α_{VIS}	α_{UV}
polished	0.21	0.22	0.27
matt	0.35	0.36	0.37

External solar protection - Reduction ratios according to EN 13363-1

External Solar Protection

	VG B		VG C		VG D	
	g	F_c^3	g	F_c^3	g	F_c^3
polished	0.55	0.73	0.48	0.74	0.51	0.71
matt	0.53	0.70	0.46	0.71	0.48	0.67

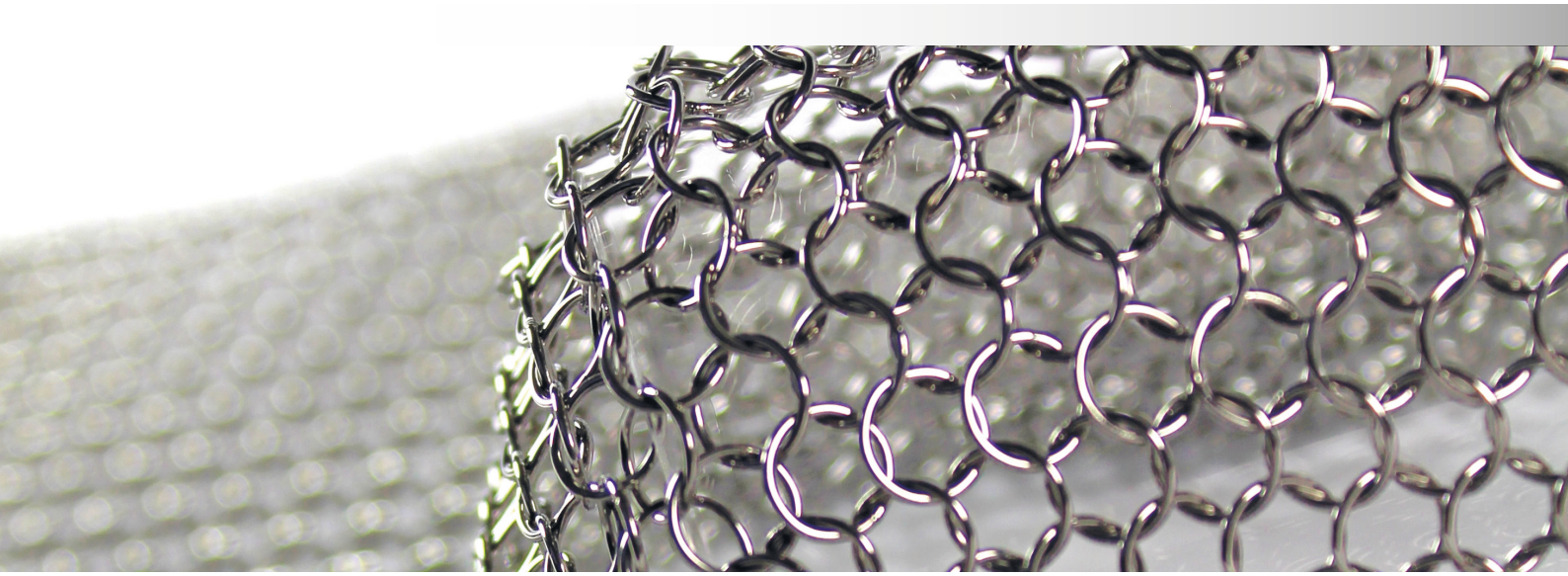
Glazing B (VG B) : double-glazed; U_g = 3.0W/(m²K) and g = 0.75;
Glazing C (VG C) : triple-glazed ; U_g = 2.0W/(m²K) and g = 0.65;
Glazing D (VG D): double-glazed with heat insulation coating U_g=1.6W/(m²K) and g = 0.72
g = Energy transmission / F_c^3 = Reduction ratio

Internal solar protection - Reduction ratios according to EN 13363-1

Internal Solar Protection

	VG B		VG C		VG D	
	g	F_c^3	g	F_c^3	g	F_c^3
polished	0.64	0.86	0.57	0.88	0.63	0.87
matt	0.68	0.91	0.60	0.93	0.67	0.93

Glazing B (VG B) : double-glazed; U_g = 3.0W/(m²K) and g = 0.75;
Glazing C (VG C) : triple-glazed ; U_g = 2.0W/(m²K) and g = 0.65;
Glazing D (VG D): double-glazed with heat insulation coating U_g=1.6W/(m²K) and g = 0.72
g = Energy transmission / F_c^3 = Reduction ratio



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