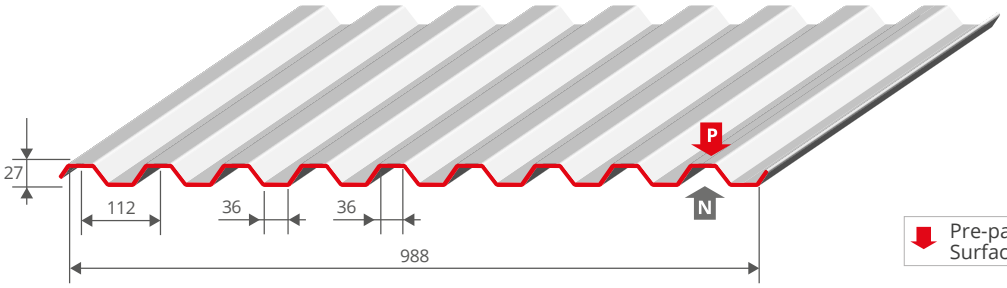
VENTILEO TECHNICAL DATA SHEET



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m²
0.63	6.16
0.75	7.33

STANDARD COATINGS ›

Steel S 320 GD	Thickness mm	Standards
Galva	0.63/0.75	NF EN 10346 / NF P 34-310
Polyester 25µ/35µ	0.63/0.75	NF EN 10169 / NF P 34-301
Other coatings	on request	NF EN 10169 / NF P 34-301

BUREAU VERITAS

TEST REPORT › NO. 2606137/1B

Deflection tests according to NF P 34-503 of November 1995. DTU 40-35 (NF P 34-205-1 May 1997)

CALCULATION VALUES › nominal thicknesses in mm

	symbol	units	0.63	0.75
Surface weight	m	kg/m²	6.16	7.33
Load due to profile weight	g	daN/m²	6.03	7.18

DOWNWARD LOAD ACTION		symbol	units	0.63	0.75
Moment of inertia single span		I_2	cm⁴/m	9.05	10.77
	two equal spans	I_3	cm⁴/m	9.05	10.77
	multiple spans	I_m	cm⁴/m	9.05	10.77
Bending moments at mid-span	*elastic syst.*	M_{d2T}	m.daN/m	150.9	179.64
	at mid-span *elasto-plastic syst.*	M_{d3T}	m.daN/m	197.5	235.12
	on supports	M_{d3A}	m.daN/m	180	214.29
	under point load	M_c	m.daN/m	111.9	214.80
Reaction on supports		R_d	daN/m	974	1160

UPLIFT LOAD ACTION				RIB FIXING 5 fixings over width		PAN ATTACHMENT 5 fixings over width	
		symbol	units	0.63	0.75	0.63	0.75
Bending moments	at mid-span *elastic syst.*	M_{a2T}	m.daN/m	137.7	164	137.7	164
	at mid-span *elasto-plastic system*	M_{a3T}	m.daN/m	211.6	251.9	211.6	251.9
	on supports	M_{a3A}	m.daN/m	94.8	112.8	94.8	112.8
Breakout force at support		S_a	daN/m	700	833	700	833
Under uplift load action, the useful spans are valid if the calculated characteristic strength (Pk/ɣm) is more than or equal to the values given in daN:				153	167	153	167

MAX. SPAN TABLE IN METRES ACCORDING TO NOMINAL LOADS › fy: 280MPa - nominal thicknesses in mm

DOWNWARD LOADS						UNWEIGHTED LIVE LOAD daN/m²	UPLIFT LOADS					
SINGLE SPAN		2 EQUAL SPANS		MULTIPLE SPANS			SINGLE SPAN		2 EQUAL SPANS 5 fastenings along width		MULTIPLE SPANS 5 fixings over width	
0.63	0.75	0.63	0.75	0.63	0.75		0.63	0.75	0.63	0.75	0.63	0.75
2.45	2.55	2.55	3.50	2.55	3.20	**50**	2.55	3.00	2.55	3.70	2.55	3.70
2.15	2.25	2.55	3.10	2.55	2.85	**75**	2.55	3.00	2.55	3.30	2.55	3.30
1.95	2.10	2.55	2.80	2.45	2.60	**100**	2.55	3.00	2.55	2.85	2.55	2.85
1.85	1.95	2.50	2.65	2.30	2.40	**125**	2.45	2.70	2.30	2.50	2.30	2.50
1.75	1.85	2.35	2.50	2.15	2.30	**150**	2.25	2.45	2.10	2.30	2.10	2.30
1.65	1.75	2.25	2.35	2.05	2.15	**175**	2.05	2.25	1.95	2.10	1.95	2.10
1.60	1.65	2.15	2.25	1.95	2.10	**200**	1.95	2.10	1.80	1.95	1.80	1.95
1.50	1.60	2.05	2.20	1.90	2.00	**225**						
1.45	1.55	2.00	2.10	1.85	1.95	**250**						