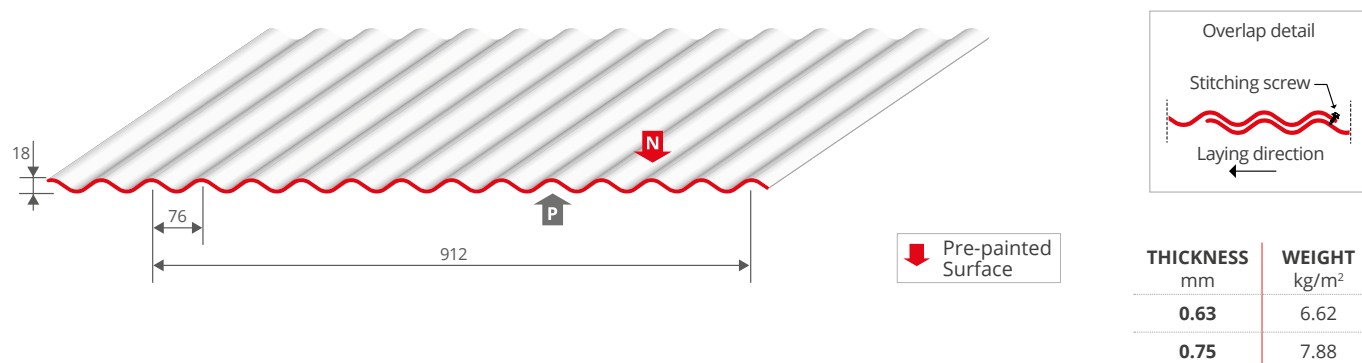


SINUS 18C - 13 CORRUGATIONS



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. 1790477/1A

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/m ²	6.62	7.88
Load due to profile weight	g	daN/m ²	6.48	7.72

DOWNWARD LOAD ACTION		symbol	units	0.63	0.75
Moment of inertia single span		I_2	cm ⁴ /m	3.36	4.00
two equal spans		I_3	cm ⁴ /m	2.68	3.19
multiple spans		I_m	cm ⁴ /m	3.02	3.59
Bending moments at mid-span	<i>elastic syst.</i>	M_{d2T}	m.daN/m	138.30	164.60
	<i>at mid-span elasto-plastic syst.</i>	M_{d3T}	m.daN/m	184.40	219.60
	<i>on supports</i>	M_{d3A}	m.daN/m	145.20	172.80
	<i>under point load</i>	M_c	m.daN/m	112.90	165.90
Reaction on supports		R_d	daN/m	897.00	1068.00

UPLIFT LOAD ACTION				FASTENING AT TOP OF CORRUGATION				FASTENING AT BOTTOM OF CORRUGATION			
				1 corrugation out of 2		1 corrugation out of 3		1 corrugation out of 2		1 corrugation out of 3	
				0.63	0.75	0.63	0.75	0.63	0.75	0.63	0.75
Bending moments	at mid-span <i>elastic syst.</i>	M_{a2T}	m.daN/m	132.40	157.60	88.30	105.10	132.40	157.60	88.30	105.10
	at mid-span <i>elasto-plastic system</i>	M_{a3T}	m.daN/m	165.40	196.90	110.30	131.30	165.40	196.90	110.30	131.30
	on supports	M_{a3A}	m.daN/m	100.90	120.20	67.30	80.10	100.90	120.20	67.30	80.10
Breakout force at support		S_a	daN/m	521.00	620.00	347.00	414.00	521.00	620.00	347.00	414.00
Under uplift load action, the useful spans are valid if the calculated characteristic strength (Pk/m) is more than or equal to the values given in daN:				127.00	145.00	127.00	152.00	127.00	145.00	127.00	152.00

MAX. SPAN TABLE IN METRES ACCORDING TO NOMINAL LOADS > f_y : 320MPa - 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				MULTIPLE SPANS				
								1 corrugation out of 2		1 corrugation out of 3		1 corrugation out of 2		1 corrugation out of 3		
0.63	0.75	0.63	0.75	0.63	0.75		0.63	0.75	0.63	0.75	0.63	0.75	0.63	0.75		
1.75	1.85	2.20	2.30	2.10	2.20	50	2.35	2.75	2.60	3.45	2.60	3.45	2.60	3.45		
1.55	1.65	1.95	2.05	1.85	1.95	75	2.35	2.75	2.60	3.40	2.55	2.58	2.60	3.40		
1.40	1.50	1.80	1.90	1.70	1.80	100	2.35	2.75	2.60	2.90	2.25	2.40	2.60	2.90		
1.30	1.40	1.65	1.75	1.60	1.65	125	2.35	2.65	2.35	2.60	1.90	2.10	2.35	2.60		
1.25	1.30	1.55	1.66	1.50	1.60	150	2.20	2.40	2.15	2.35	1.60	1.90	2.15	2.35		
1.20	1.25	1.50	1.60	1.40	1.50	175	2.05	2.20	2.00	2.20	1.35	1.65	2.00	2.20		
1.15	1.20	1.45	1.50	1.35	1.45	200	1.75	2.10	1.80	2.05	1.20	1.40	1.80	2.05		
1.10	1.15	1.35	1.45	1.30	1.40	225										
1.50	1.10	1.35	1.40	1.25	1.35	250										