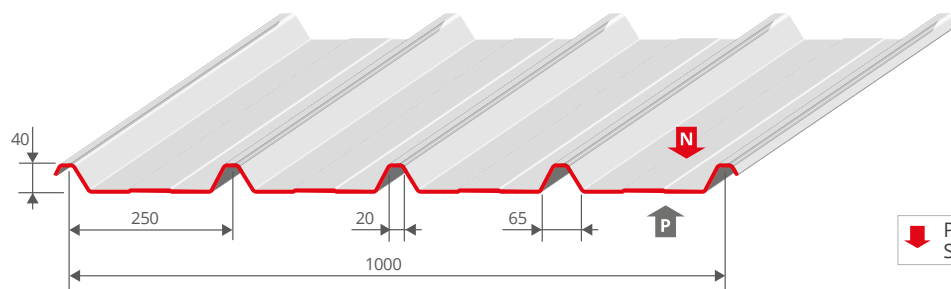


COVEO 4.40



THICKNESS mm	WEIGHT kg/m ²
0.63	6.03
0.75	7.18

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. 1803357/1A

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	6.03	7.18
Load due to profile weight	g	daN/m ²	5.91	7.04

DOWNWARD LOAD ACTION		symbol	units	0.63	0.75
Moment of inertia single span		I_2	cm ⁴ /m	15.09	17.86
two equal spans		I_3	cm ⁴ /m	11.98	15
multiple spans		I_m	cm ⁴ /m	13.53	16.43
Bending moments at mid-span	<i>elastic syst.</i>	M_{d2T}	m.daN/m	131.4	177.9
	<i>elasto-plastic syst.</i>	M_{d3T}	m.daN/m	157.4	206.7
	on supports	M_{d3A}	m.daN/m	137.6	194.5
	under point load	M_c	m.daN/m	108.6	166.2
Reaction on supports		R_d	daN/m	594	751

UPLIFT LOAD ACTION				RIB FIXING				VALLEY FIXING			
				all ribs attached		2 out of 3 ribs attached		all ribs attached		2 out of 3 ribs attached	
				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	142.3	195.3	71.1	97.7	142.3	195.3	71.1	97.7
	at mid-span	<i>elasto-plastic system</i>	M_{a3T} m.daN/m	145.8	207.6	72.9	103.8	145.8	207.6	72.9	103.8
	on supports		M_{a3A} m.daN/m	115	161.8	57.5	80.9	115	161.8	57.5	80.9
Breakout force at support			S_a daN/m	536	630	268	315	536	630	268	315
Under uplift load action, the useful spans are valid if the calculated characteristic strength (Pk/γm) is more than or equal to the values given in daN:				197	232	197	232	158	186	131	155

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				
								all ribs attached		2 out of 4 ribs attached		all ribs attached		2 out of 4 ribs attached		
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		
2.25	3.00	2.45	3.70	2.45	3.70	50	2.25	3.00	2.45	3.70	2.45	3.50	2.45	3.70	2.45	3.50
2.25	2.70	2.45	3.45	2.45	3.25	75	2.25	3.00	2.45	3.70	2.35	2.80	2.45	3.70	2.35	2.80
2.25	2.45	2.45	3.15	2.45	3.00	100	2.25	3.00	2.45	3.40	1.85	2.20	2.45	3.40	1.85	2.20
2.20	2.30	2.45	2.90	2.45	2.80	125	2.25	2.95	2.45	3.00	1.50	1.75	2.45	3.00	1.50	1.75
2.05	2.15	2.30	2.65	2.30	2.60	150	2.25	2.70	2.30	2.75	1.25	1.45	2.30	2.75	1.25	1.45
1.95	2.05	2.15	2.45	2.15	2.45	175	2.10	2.45	2.10	2.50	1.05	1.25	2.10	2.50	1.05	1.25
1.85	2.00	1.90	2.30	1.90	2.30	200	1.80	2.15	1.85	2.15	0.90	1.10	1.85	2.15	0.90	1.10
1.70	1.90	1.70	2.15	1.70	2.15	225										
1.55	1.85	1.55	1.95	1.55	1.95	250										