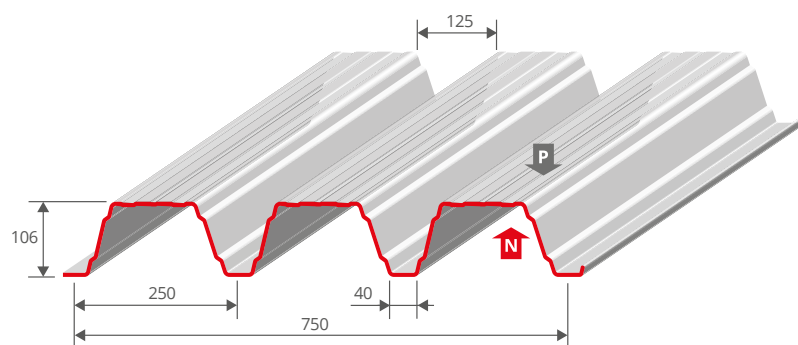


ALTEO 106.750



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	9.58
0.88	11.24
1.00	12.77

STANDARD COATINGS >

Steel S 350 GD	Thickness mm	Standards
Galva	0.75/0.88/1.00	NF EN 10346 / NF P 34-310
Polyester 15μ	0.75/0.88/1.00	NF EN 10169 / NF P 34-301
Other coatings	on request	NF EN 10169 / NF P 34-301

**BUREAU
VERITAS**

TEST REPORT > NO. 1628665/1D

Deflection tests according to NF P 34-503 of November 1995.
CTSB Specification 3537_V2 (January 2009)

CALCULATION VALUES > nominal thicknesses in mm

	symbol	units	0.75	0.88	1.00
Guaranteed minimum yield strength		MPa	350	350	350
Load due to profile weight		daN/m ²	9.39	11.02	12.52
Moment of inertia	single span	l ₂	177.02	207.71	236.03
	2 equal spans	l ₃	167.22	196.20	222.96
	multiple spans	l _m	172.12	201.95	229.49
Bending moments	at mid-span <i>elastic system</i>	M _{2T}	833.5	978.0	1111.4
	at mid-span <i>elasto-plastic system</i>	M _{3T}	891.1	1045.6	1188.2
	on support	M _{3A}	720.5	845.4	960.7
	under point load	M _c	430.1	504.6	573.4

MAXIMUM SPAN TABLE ACCORDING TO NOMINAL LOADS > nominal thicknesses in mm

LOADS kN/m ²			MAXIMUM SPANS m								
LIVE LOADS (s)	DEAD LOADS (p)	LOAD TOTAL	SINGLE SPAN			2 EQUAL SPANS			MULTIPLE SPANS		
			0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00
1.00	0.10	1.10	4.85	5.10	5.25	6.10	6.40	6.70	5.70	5.95	6.20
1.00	0.20	1.20	4.80	5.05	5.25	6.10	6.40	6.70	5.70	5.95	6.20
1.00	0.25	1.25	4.75	5.00	5.20	6.00	6.40	6.70	5.70	5.95	6.20
1.00	0.50	1.50	4.50	4.70	4.90	5.50	5.90	6.30	5.50	5.80	6.05
1.00	1.00	2.00	4.10	4.30	4.50	4.80	5.15	5.50	4.90	5.30	5.50
1.10	0.15	1.25	4.70	4.95	5.15	5.90	6.20	6.50	5.60	5.80	6.00
1.10	0.20	1.30	4.70	4.90	5.10	5.85	6.20	6.50	5.60	5.80	6.00
1.10	0.25	1.35	4.65	4.85	5.05	5.75	6.20	6.50	5.60	5.80	6.00
1.10	1.00	2.10	4.05	4.25	4.40	4.70	5.05	5.35	4.75	5.15	5.45
1.25	0.15	1.40	4.50	4.75	4.95	5.65	5.95	6.20	5.40	5.65	5.80
1.25	0.25	1.50	4.50	4.70	4.90	5.50	5.90	6.20	5.40	5.65	5.80
1.50	0.15	1.65	4.25	4.45	4.65	5.25	5.65	5.90	5.15	5.40	5.55
1.50	0.25	1.75	4.25	4.45	4.65	4.10	5.50	5.85	5.10	5.40	5.55
1.50	1.20	2.70	3.70	3.90	4.05	3.90	4.20	4.50	4.00	4.30	4.55
1.75	0.15	1.90	4.05	4.25	4.45	4.90	5.30	5.60	4.90	5.20	5.35
1.75	0.25	2.00	4.05	4.25	4.45	4.80	5.15	5.50	4.80	5.20	5.35
2.00	0.15	2.15	3.85	4.05	4.25	4.65	5.00	5.30	4.65	5.00	5.15
2.00	0.25	2.25	3.85	4.05	4.25	4.55	4.90	5.20	4.55	4.90	5.15

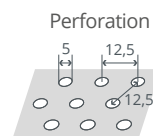
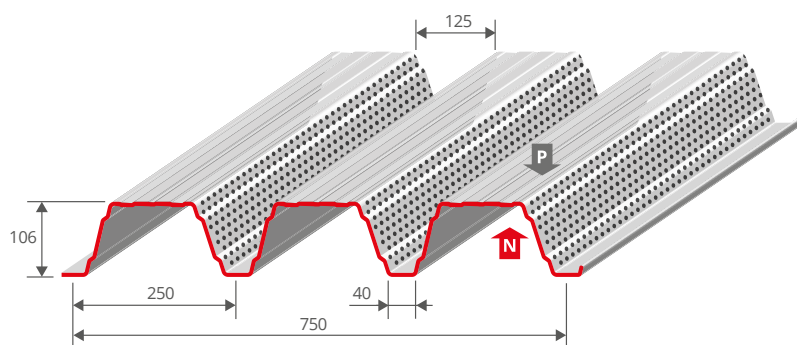
CALCULATION VALUES ACCORDING TO UPWARD DISTRIBUTED NOMINAL LOADS › nominal thicknesses in mm

		symbol	units	0.75	0.88	1.00
Moment of inertia	single span	I_2	cm ⁴ /m	166.26	195.08	221.68
	2 equal spans	I_3	cm ⁴ /m	129.44	151.88	172.59
	multiple spans	I_m	cm ⁴ /m	147.85	173.48	197.14
Bending moments	at mid-span <i>elastic system</i>	M_{2T}	m.daN/m	753.1	883.7	1004.2
	at mid-span <i>elasto-plastic system</i>	M_{3T}	m.daN/m	1041.6	1222.2	1388.9
	on support	M_{3A}	m.daN/m	947.8	1112.1	1263.7

USE SPAN TABLE ACCORDING TO UPWARD DISTRIBUTED NOMINAL LOADS › nominal thicknesses in mm

LOADS kN/m ²		MAXIMUM SPANS m								
LIVE LOADS (s)	DEAD LOADS (p)	SINGLE SPAN			2 EQUAL SPANS			MULTIPLE SPANS		
		0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00
0.50	0.15	5.75	6.05	6.35	6.40	6.80	7.05	6.40	6.80	7.05
0.50	0.20	5.75	6.05	6.35	6.40	6.80	7.05	6.40	6.80	7.05
0.50	0.25	5.75	6.05	6.35	6.40	6.80	7.05	6.40	6.80	7.05
0.75	0.15	5.75	6.05	6.35	6.40	6.80	7.05	6.40	6.80	7.05
0.75	0.25	5.75	6.05	6.35	6.40	6.80	7.05	6.40	6.80	7.05
1.00	0.15	5.30	5.60	5.85	6.40	6.80	7.05	6.35	6.70	7.00
1.00	0.25	5.30	5.60	5.85	6.40	6.80	7.05	6.35	6.70	7.00
1.25	0.15	4.95	5.20	5.40	6.15	6.50	6.75	5.90	6.20	6.50
1.25	0.25	4.95	5.20	5.40	6.15	6.50	6.75	5.90	6.20	6.50
1.50	0.15	4.65	4.90	5.10	5.80	6.10	6.35	5.55	5.85	6.10
1.50	0.25	4.65	4.90	5.10	5.80	6.10	6.35	5.55	5.85	6.10
1.50	0.50	4.65	4.90	5.10	5.80	6.10	6.35	5.55	5.85	6.10
2.00	0.15	4.20	4.45	4.65	5.05	5.50	5.80	5.05	5.30	5.55
2.00	0.25	4.20	4.45	4.65	5.15	5.55	5.80	5.05	5.30	5.55
2.00	0.50	4.20	4.45	4.65	5.25	5.55	5.80	5.05	5.30	5.55

ALTEO 106.750 PA (Web Perforation)



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	8.92
0.88	10.47
1.00	11.90

STANDARD COATINGS >

Steel S 350 GD	Thickness mm	Standards
Galva	0.75/0.88/1.00	NF EN 10346 / NF P 34-310
Polyester 15μ	0.75/0.88/1.00	NF EN 10169 / NF P 34-301
Other coatings	on request	NF EN 10169 / NF P 34-301

**BUREAU
VERITAS**

TEST REPORT > NO. 2524517/1A

Deflection tests according to NF P 34-503 of November 1995. CTSB Specification 3537_V2 (January 2009)

CALCULATION VALUES > nominal thicknesses in mm

		symbol	units	0.75	0.88	1.00
Guaranteed minimum yield strength			MPa	320	320	320
Load due to profile weight			daN/m ²	8.74	10.26	11.66
Moment of inertia	single span	I_2	cm ⁴ /m	165.63	194.34	220.84
	2 equal spans	I_3	cm ⁴ /m	159.85	187.56	213.13
	multiple spans	I_m	cm ⁴ /m	162.74	190.95	216.99
Bending moments	at mid-span <i>elastic system</i>	M_{2T}	m.daN/m	563.40	661.10	751.20
	at mid-span <i>elasto-plastic system</i>	M_{3T}	m.daN/m	636.50	746.90	848.70
	on support	M_{3A}	m.daN/m	527.70	619.10	703.60
	under point load	M_c	m.daN/m	327.30	384.10	436.40

MAXIMUM SPAN TABLE ACCORDING TO NOMINAL LOADS > nominal thicknesses in mm

LOADS kN/m ²			MAXIMUM SPANS m								
LIVE LOADS (s)	DEAD LOADS (p)	LOAD TOTAL	SINGLE SPAN			2 EQUAL SPANS			MULTIPLE SPANS		
			0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00
1.00	0.10	1.10	4.75	5.00	5.15	5.40	5.80	6.15	5.40	5.80	6.10
1.00	0.20	1.20	4.70	4.95	5.15	5.20	5.60	5.95	5.20	5.60	5.95
1.00	0.25	1.25	4.65	4.90	5.05	5.10	5.50	5.85	5.10	5.50	5.85
1.00	0.50	1.50	4.40	4.60	4.80	4.70	5.10	5.40	4.70	5.10	5.40
1.00	1.00	2.00	3.90	4.20	4.40	4.10	4.45	4.70	4.15	4.45	4.75
1.10	0.15	1.25	4.60	4.85	5.05	5.10	5.45	5.80	5.10	5.45	5.80
1.10	0.20	1.30	4.60	4.80	5.00	5.00	5.40	5.70	5.00	5.40	5.70
1.10	0.25	1.35	4.55	4.75	4.95	4.90	5.30	5.60	4.90	5.30	5.60
1.10	1.00	2.10	3.80	4.10	4.30	4.00	4.35	4.60	4.05	4.35	4.65
1.25	0.15	1.40	4.40	4.65	4.85	4.80	5.20	5.50	4.80	5.20	5.50
1.25	0.25	1.50	4.40	4.60	4.80	4.65	5.05	5.35	4.65	5.05	5.35
1.50	0.15	1.65	4.15	4.40	4.55	4.45	4.80	5.10	4.45	4.80	5.10
1.50	0.25	1.75	4.10	4.40	4.55	4.35	4.70	4.95	4.35	4.70	4.95
1.50	1.20	2.70	3.15	3.45	3.65	3.35	3.60	3.85	3.35	3.65	3.85
1.75	0.15	1.90	3.90	4.15	4.35	4.15	4.50	4.75	4.15	4.50	4.75
1.75	0.25	2.00	3.80	4.15	4.35	4.05	4.40	4.65	4.05	4.40	4.65
2.00	0.15	2.15	3.70	4.00	4.15	3.90	4.25	4.50	3.90	4.25	4.50
2.00	0.25	2.25	3.60	3.90	4.15	3.85	4.15	4.40	3.85	4.15	4.40

CALCULATION VALUES ACCORDING TO UPWARD DISTRIBUTED NOMINAL LOADS ▶ nominal thicknesses in mm

		symbol	units	0.75	0.88	1.00
Moment of inertia	single span	I_{a2}	cm ⁴ /m	165.14	193.77	220.19
	2 equal spans	I_{a3}	cm ⁴ /m	132.81	155.83	177.08
	multiple spans	I_{am}	cm ⁴ /m	148.98	174.80	198.64
Bending moments	at mid-span <i>elastic system</i>	M_{a2T}	m.daN/m	537.80	631.00	717.00
	at mid-span <i>elasto-plastic system</i>	M_{a3T}	m.daN/m	824.40	967.30	1099.20
	on support	M_{a3A}	m.daN/m	741.30	869.70	988.30

USE SPAN TABLE ACCORDING TO UPWARD DISTRIBUTED NOMINAL LOADS ▶ nominal thicknesses in mm

LOADS kN/m ²		MAXIMUM SPANS m								
LIVE LOADS (s)	DEAD LOADS (p)	SINGLE SPAN			2 EQUAL SPANS			MULTIPLE SPANS		
		0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00
0.50	0.15	5.25	5.70	6.00	5.60	6.05	6.40	5.60	6.05	6.40
0.50	0.20	5.25	5.70	6.00	5.60	6.05	6.40	5.60	6.05	6.40
0.50	0.25	5.25	5.70	6.00	5.60	6.05	6.40	5.60	6.05	6.40
0.75	0.15	5.25	5.70	6.00	5.60	6.05	6.40	5.60	6.05	6.40
0.75	0.25	5.25	5.70	6.00	5.60	6.05	6.40	5.60	6.05	6.40
1.00	0.15	5.25	5.60	5.85	5.60	6.05	6.40	5.60	6.05	6.40
1.00	0.25	5.25	5.60	5.85	5.60	6.05	6.40	5.60	6.05	6.40
1.25	0.15	4.70	5.10	5.40	5.60	6.05	6.40	5.60	6.05	6.40
1.25	0.25	4.85	5.15	5.35	5.60	6.05	6.40	5.60	6.05	6.40
1.50	0.15	4.25	4.60	4.95	5.25	5.70	6.10	5.30	5.75	6.10
1.50	0.25	4.35	4.70	5.05	5.35	5.85	6.25	5.40	5.85	6.10
1.50	0.50	4.60	4.90	5.10	5.60	6.05	6.40	5.55	5.85	6.10
2.00	0.15	3.65	3.95	4.20	4.50	4.90	5.20	4.55	4.95	5.25
2.00	0.25	3.70	4.00	4.30	4.55	4.95	5.30	4.60	5.00	5.35
2.00	0.50	3.85	4.20	4.45	4.75	5.15	5.55	4.80	5.20	5.55