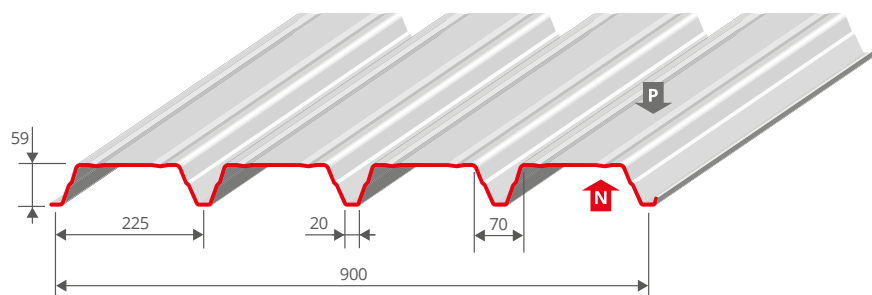


ALTEO 59.900



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	7.98
0.88	9.36
1.00	10.64

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. 1841430/1C

Deflection tests according to NF P 34-503 of November 1995. DTU 43.3 (NF P 84-206 April 2008)

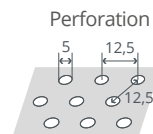
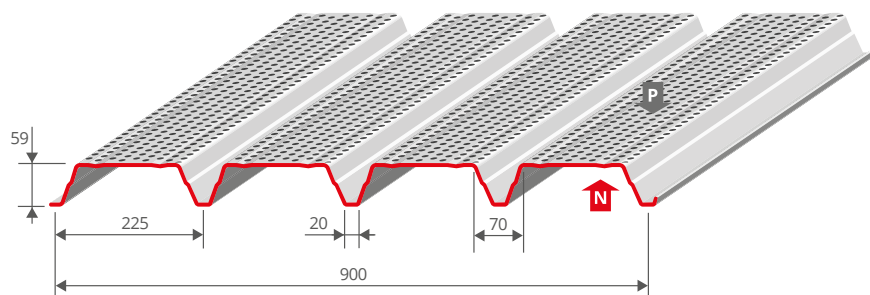
CALCULATION VALUES > nominal thicknesses in mm

	symbol	units	0.75	0.88	1.00
Guaranteed minimum yield strength		MPa	350	350	350
Load due to profile weight		daN/m ²	7.82	9.18	10.43
Moment of inertia	single span	l ₂	44.46	52.17	59.28
	2 equal spans	l ₃	39.87	46.78	53.16
	multiple spans	l _m	42.17	49.47	56.22
Bending moments	at mid-span <i>elastic system</i>	M _{2T}	404.0	474.1	538.7
	at mid-span <i>elasto-plastic system</i>	M _{3T}	412.0	483.5	549.4
	on support	M _{3A}	298.8	350.6	398.4
	under point load	M _c	310.6	364.4	414.1

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	0.15	1.15	3.05	3.25	3.35	4.00	4.25	4.40	3.75	3.95	4.10
1.00	0.20	1.20	3.05	3.20	3.30	3.95	4.20	4.35	3.70	3.90	4.05
1.00	0.25	1.25	3.00	3.15	3.30	3.85	4.15	4.30	3.65	3.85	4.00
1.00	0.50	1.50	2.85	3.00	3.10	3.55	3.85	4.10	3.45	3.65	3.80
1.00	1.00	2.00	2.60	2.70	2.85	3.10	3.35	3.55	3.15	3.30	3.45
1.25	0.15	1.40	2.85	3.00	3.15	3.65	3.90	4.10	3.45	3.65	3.80
1.25	0.25	1.50	2.85	3.00	3.10	3.55	3.85	4.05	3.45	3.65	3.80
1.50	0.15	1.65	2.70	2.80	2.95	3.40	3.65	3.85	3.25	3.45	3.60
1.50	0.25	1.75	2.70	2.80	2.95	3.30	3.55	3.80	3.25	3.45	3.60
1.50	1.20	2.70	2.35	2.45	2.60	2.50	2.70	2.90	2.70	2.95	3.10
1.75	0.15	1.90	2.55	2.70	2.80	3.15	3.45	3.65	3.10	3.30	3.40
1.75	0.25	2.00	2.55	2.70	2.80	3.10	3.35	3.55	3.10	3.30	3.40
2.00	0.15	2.15	2.45	2.55	2.70	3.00	3.25	3.45	2.95	3.15	3.25
2.00	0.25	2.25	2.45	2.55	2.70	2.95	3.15	3.35	2.95	3.15	3.25

ALTEO 59.900 PP (Perforation on top)



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	7.47
0.88	8.77
1.00	9.96

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. 1841430/1D

Deflection tests according to NF P 34-503 of November 1995. DTU 43.3 (NF P 84-206 April 2008)

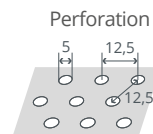
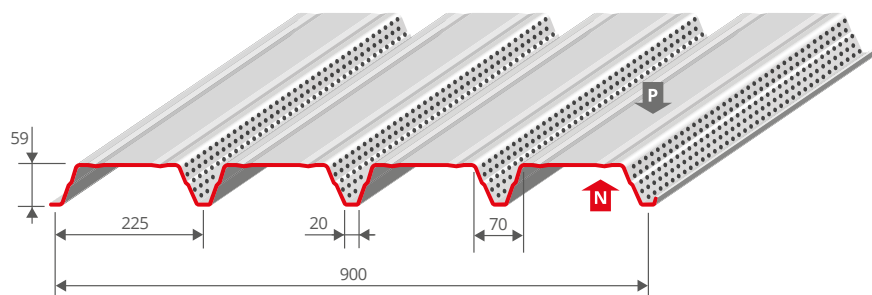
CALCULATION VALUES > nominal thicknesses in mm

	symbol	units	0.75	0.88	1.00
Guaranteed minimum yield strength		MPa	350	350	350
Load due to profile weight		daN/m ²	7.32	8.59	9.76
Moment of inertia	single span	l ₂	37.98	44.57	50.65
	2 equal spans	l ₃	36.33	42.62	48.44
	multiple spans	l _m	37.16	43.60	49.54
Bending moments	at mid-span <i>elastic system</i>	M _{2T}	353.0	414.2	470.6
	at mid-span <i>elasto-plastic system</i>	M _{3T}	365.1	428.4	486.8
	on support	M _{3A}	280.1	328.7	373.5
	under point load	M _c	268.5	315.0	358.0

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	0.15	1.15	2.90	3.05	3.20	3.85	4.05	4.25	3.60	3.80	3.95
1.00	0.20	1.20	2.90	3.05	3.15	3.85	4.05	4.20	3.55	3.75	3.90
1.00	0.25	1.25	2.85	3.00	3.10	3.75	4.00	4.15	3.50	3.70	3.85
1.00	0.50	1.50	2.70	2.85	2.95	3.45	3.75	3.95	3.30	3.50	3.65
1.00	1.00	2.00	2.45	2.60	2.70	3.00	3.25	3.45	3.05	3.20	3.30
1.25	0.15	1.40	2.70	2.85	2.95	3.55	3.80	3.95	3.35	3.50	3.65
1.25	0.25	1.50	2.70	2.85	2.95	3.45	3.70	3.95	3.30	3.50	3.65
1.50	0.15	1.65	2.55	2.70	2.80	3.30	3.55	3.75	3.15	3.30	3.45
1.50	0.25	1.75	2.55	2.70	2.80	3.20	3.45	3.65	3.15	3.30	3.45
1.50	1.20	2.70	2.25	2.35	2.45	2.45	2.65	2.80	2.55	2.75	2.95
1.75	0.15	1.90	2.40	2.55	2.65	3.10	3.30	3.55	3.00	3.15	3.30
1.75	0.25	2.00	2.40	2.55	2.65	3.00	3.25	3.45	3.00	3.15	3.30
2.00	0.15	2.15	2.30	2.45	2.55	2.90	3.15	3.35	2.85	3.00	3.15
2.00	0.25	2.25	2.30	2.45	2.55	2.85	3.05	3.25	2.85	3.00	3.15

ALTEO 59.900 PA (Web Perforation)



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	7.65
0.88	8.97
1.00	10.20

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. 2474177/1D

Deflection tests according to NF P 34-503 of November 1995.
DTU 43.3 (NF P 84-206 April 2008)

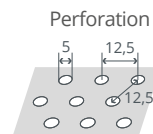
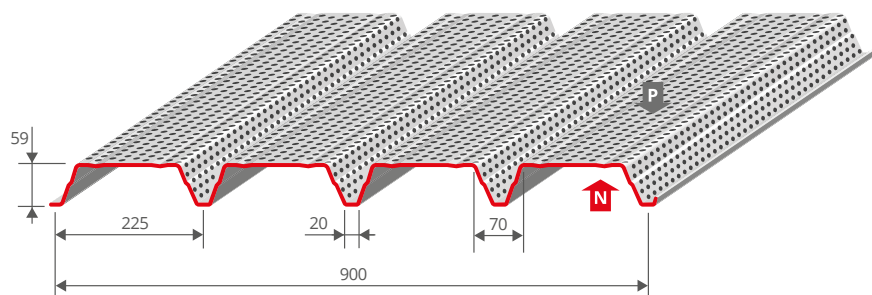
CALCULATION VALUES > nominal thicknesses in mm

	symbol	units	0.75	0.88	1.00
Guaranteed minimum yield strength		MPa	350	350	350
Load due to profile weight		daN/m ²	7.50	8.79	10.00
Moment of inertia	single span	l ₂	cm ⁴ /m	38.30	44.94
	2 equal spans	l ₃	cm ⁴ /m	34.96	41.02
	multiple spans	l _m	cm ⁴ /m	36.63	42.98
Bending moments	at mid-span <i>elastic system</i>	M _{2T}	m.daN/m	339.1	397.9
	at mid-span <i>elasto-plastic system</i>	M _{3T}	m.daN/m	361.1	423.7
	on support	M _{3A}	m.daN/m	280.9	329.6
	under point load	M _c	m.daN/m	290.2	340.5

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	0.15	1.15	2.90	3.05	3.20	3.85	4.05	4.20	3.55	3.75	3.95
1.00	0.20	1.20	2.90	3.05	3.15	3.80	4.00	4.15	3.55	3.75	3.90
1.00	0.25	1.25	2.85	3.00	3.15	3.75	3.95	4.10	3.50	3.70	3.85
1.00	0.50	1.50	2.70	2.85	2.95	3.45	3.75	3.90	3.30	3.50	3.65
1.00	1.00	2.00	2.45	2.60	2.70	3.00	3.25	3.45	3.00	3.20	3.30
1.25	0.15	1.40	2.70	2.85	3.00	3.55	3.75	3.90	3.30	3.50	3.65
1.25	0.25	1.50	2.70	2.85	2.95	3.45	3.70	3.90	3.30	3.50	3.60
1.50	0.15	1.65	2.55	2.70	2.80	3.30	3.55	3.70	3.10	3.30	3.45
1.50	0.25	1.75	2.55	2.70	2.80	3.20	3.45	3.70	3.10	3.30	3.45
1.50	1.20	2.70	2.25	2.35	2.45	2.45	2.65	2.80	2.55	2.75	2.95
1.75	0.15	1.90	2.40	2.55	2.65	3.10	3.35	3.50	2.95	3.15	3.25
1.75	0.25	2.00	2.40	2.55	2.65	3.00	3.25	3.45	2.95	3.15	3.25
2.00	0.15	2.15	2.30	2.45	2.55	2.90	3.15	3.35	2.85	3.00	3.10
2.00	0.25	2.25	2.30	2.45	2.55	2.85	3.05	3.25	2.85	3.00	3.10

ALTEO 59.900 PT (Full Perforation)



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.75	6.85
0.88	8.03
1.00	9.13

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. 2461385/1C

Deflection tests according to NF P 34-503 of November 1995. DTU 43.3 (NF P 84-206 April 2008)

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	6.71	7.87	8.95
Moment of inertia	single span	I ₂	26.36	30.93	35.15
	2 equal spans	I ₃	25.44	29.85	33.92
	multiple spans	I _m	25.90	30.39	34.53
Bending moments	at mid-span <i>elastic system</i>	M _{2T}	237.2	278.3	316.3
	at mid-span <i>elasto-plastic system</i>	M _{3T}	284.8	334.2	379.7
	on support	M _{3A}	225.8	264.9	301.1
	under point load	M _c	215.1	252.4	286.8

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	0.15	1.15	2.55	2.70	2.85	3.40	3.60	3.75	3.20	3.35	3.50
1.00	0.20	1.20	2.55	2.70	2.80	3.40	3.60	3.75	3.15	3.35	3.45
1.00	0.25	1.25	2.55	2.65	2.75	3.40	3.55	3.70	3.15	3.30	3.40
1.00	0.50	1.50	2.40	2.50	2.65	3.10	3.35	3.50	2.95	3.10	3.25
1.00	1.00	2.00	2.20	2.30	2.40	2.70	2.90	3.10	2.70	2.85	2.95
1.25	0.15	1.40	2.40	2.50	2.65	3.20	3.40	3.50	2.95	3.10	3.25
1.25	0.25	1.50	2.40	2.50	2.60	3.10	3.35	3.50	2.95	3.10	3.25
1.50	0.15	1.65	2.25	2.35	2.45	2.95	3.20	3.30	2.80	2.95	3.05
1.50	0.25	1.75	2.25	2.35	2.45	2.90	3.10	3.30	2.80	2.95	3.05
1.50	1.20	2.70	1.95	2.10	2.15	2.20	2.35	2.50	2.25	2.45	2.60
1.75	0.15	1.90	2.15	2.25	2.35	2.75	3.00	3.15	2.65	2.80	2.90
1.75	0.25	2.00	2.15	2.25	2.35	2.70	2.90	3.10	2.65	2.80	2.90
2.00	0.15	2.15	2.05	2.15	2.25	2.60	2.80	3.00	2.55	2.65	2.80
2.00	0.25	2.25	2.05	2.15	2.25	2.55	2.75	2.95	2.55	2.65	2.80