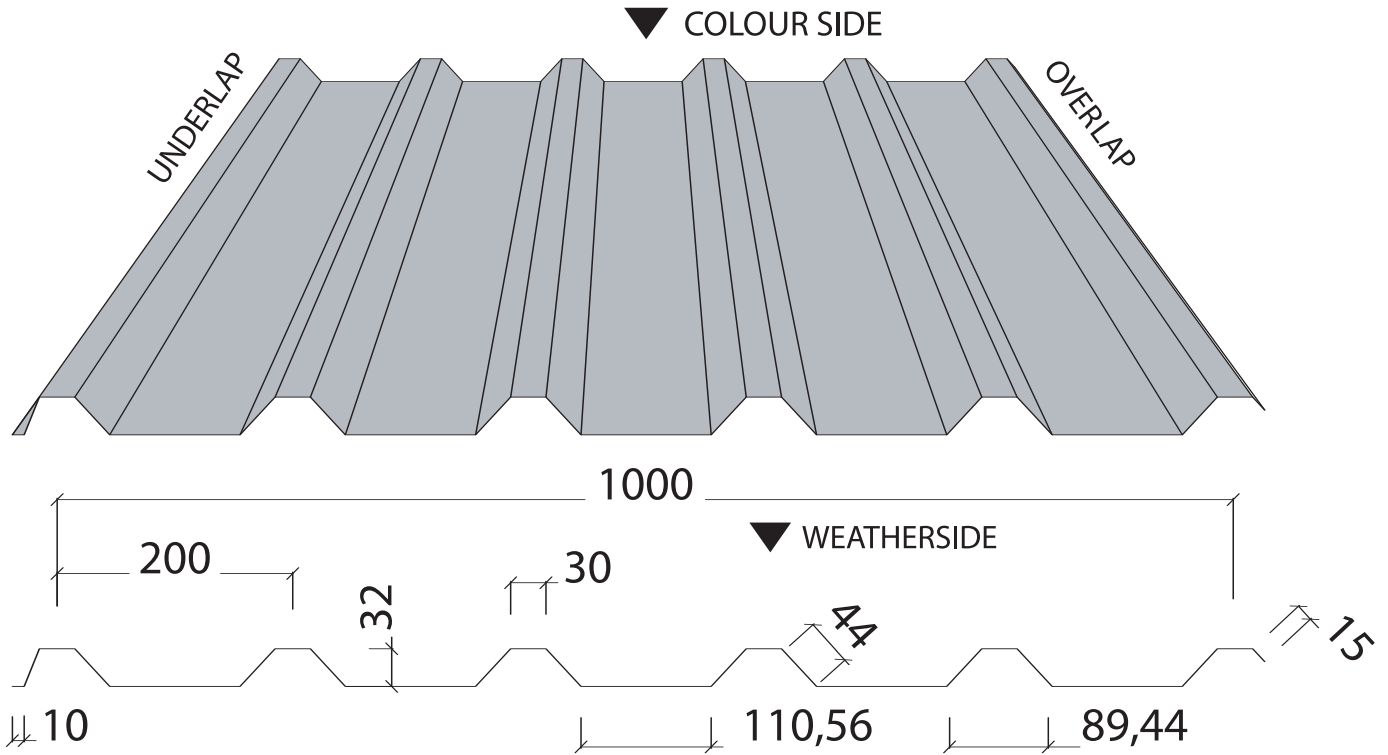


Colorpro Profiles

32-1000 FORWARD



DIMENSION DETAILS

PROFILE DEPTH :	32mm
COVER WIDTH:	1000mm
CROWN WIDTH :	30mm
RIB WIDTH:	89.44mm
PROFILE PITCH:	200mm
WEB:	44mm
VALLEY WIDTH	110.56
OVERLAP:	15mm MIN
UNDERLAP:	10mm

WEIGHT PER LINEAR METRE

0.5mm COATED TO ONE SIDE:	4.78kgs
0.7mm COATED TO ONE SIDE:	6.7kgs

TOLERANCES ON ALL DIMENSIONS AS PER BS EN 508-1:2000

This roof profile features an offset Purlin bearing (P.B.L.) underlap leg for extra strength. Directional lay required.

Load Span Tables

Deflection < L/200

Profile Ref:	32/1000 FORWARD		Steel	t(mm)	Mcap+ve (KNm/m)	Mcap-ve (KNm/m)	leff (mm ⁴ /m)	Rcap (kN/m)	Deflection Limit under working load = L/200
	Profile Type:								
	0.7	1.60		0.5	1.56		14.00	23.06	
		1.13			1.07		9.23	15.06	

Single Span Case - Permissible Working +ve Loads (kN/m²)

Thickness	Design Case	Span in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Moment	-	-	4.17	3.55	3.06	2.67	2.34	2.08	1.85	1.66	1.50	1.36	1.24	1.13	1.04	0.96	0.89
	Inertia	-	-	4.20	3.31	2.65	2.15	1.77	1.48	1.25	1.06	0.91	0.78	0.68	0.60	0.53	0.46	0.41
	Reaction	-	-	16.74	15.45	14.35	13.39	12.55	11.82	11.16	10.57	10.04	9.56	9.13	8.73	8.37	8.03	7.73
	Limiting	-	-	4.17	3.31	2.65	2.15	1.77	1.48	1.25	1.06	0.91	0.78	0.68	0.60	0.53	0.46	0.41
0.7mm	Moment	-	-	5.92	5.04	4.35	3.79	3.33	2.95	2.63	2.36	2.13	1.93	1.76	1.61	1.48	1.36	1.26
	Inertia	-	-	3.90	3.06	2.45	2.00	1.64	1.37	1.15	0.98	0.84	0.73	0.63	0.55	0.49	0.43	0.38
	Reaction	-	-	25.62	23.65	21.96	20.50	19.21	18.08	17.08	16.18	15.37	14.64	13.97	13.37	12.81	12.30	11.82
	Limiting	-	-	3.90	3.06	2.45	2.00	1.64	1.37	1.15	0.98	0.84	0.73	0.63	0.55	0.49	0.43	0.38

Double Span Case - Permissible Working +ve Loads (kN/m²)

Thickness	Design Case	Span in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Moment	-	-	3.97	3.38	2.92	2.54	2.23	1.98	1.76	1.58	1.43	1.30	1.18	1.08	0.99	0.91	0.85
	Inertia	-	-	10.12	7.96	6.38	5.18	4.27	3.56	3.00	2.55	2.19	1.89	1.64	1.44	1.27	1.12	1.00
	Reaction	-	-	10.46	9.66	8.97	8.37	7.85	7.38	6.97	6.61	6.28	5.98	5.71	5.46	5.23	5.02	4.83
	Interaction	-	-	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.38	1.28	1.18	1.09	1.02	0.95
0.7mm	Moment	-	-	5.55	4.84	4.17	3.63	3.19	2.83	2.52	2.27	2.04	1.85	1.69	1.55	1.42	1.31	1.21
	Inertia	-	-	9.39	7.38	5.91	4.81	3.96	3.30	2.78	2.36	2.03	1.75	1.52	1.33	1.17	1.04	0.92
	Reaction	-	-	16.01	14.78	13.72	12.81	12.01	11.30	10.67	10.11	9.61	9.15	8.73	8.35	8.01	7.69	7.39
	Interaction	-	-	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	-	-	5.68	4.84	4.17	3.63	3.19	2.83	2.52	2.27	2.03	1.75	1.52	1.33	1.17	1.04	0.92