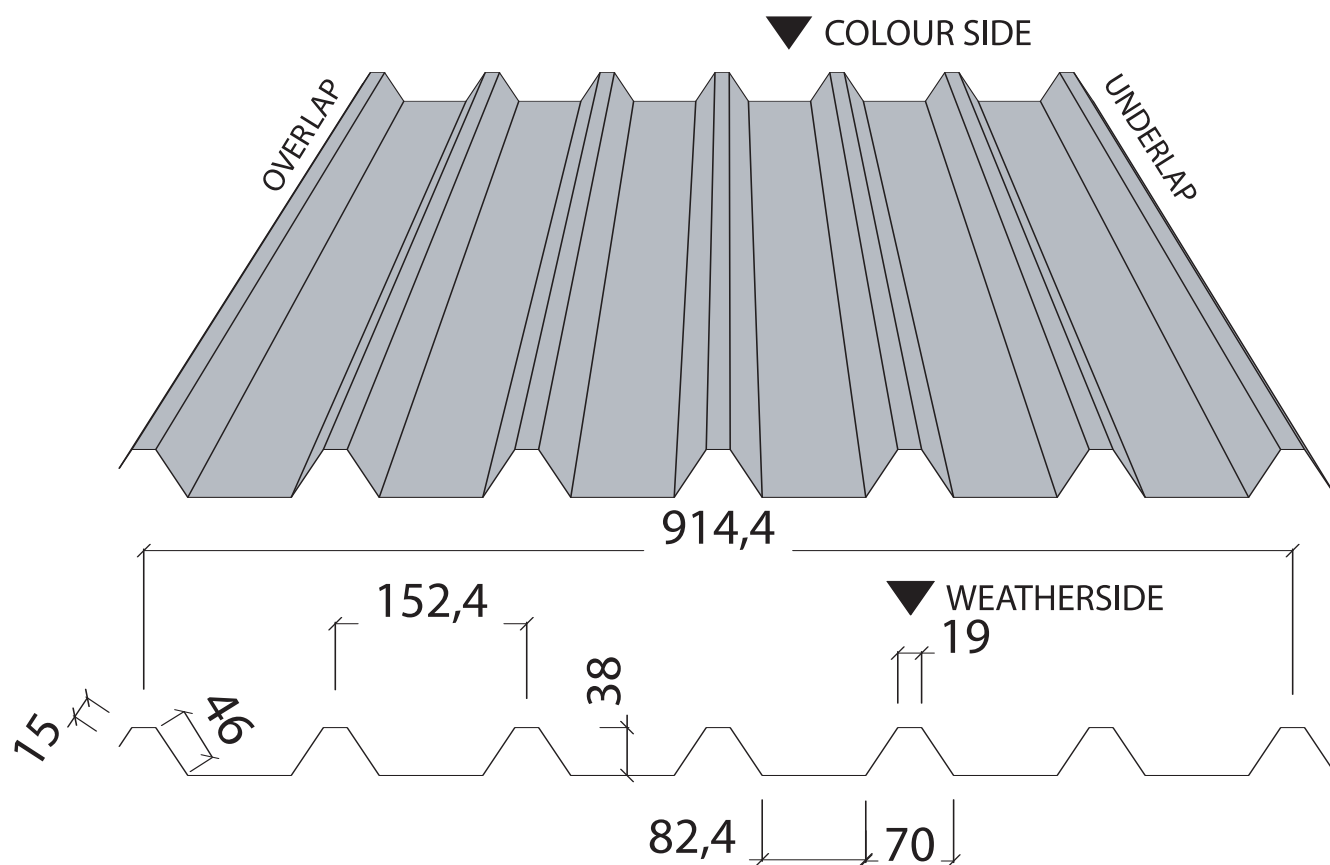


Colorpro Profiles

38-914 FORWARD



DIMENSION DETAILS

PROFILE DEPTH :	38mm
COVER WIDTH:	914.4mm
CROWN WIDTH :	19mm
RIB WIDTH:	70mm
PROFILE PITCH:	152.4mm
WEB:	46mm
VALLEY WIDTH:	82.4mm
OVERLAP:	15mm
UNDERLAP:	-

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

Directional laying required.

Load Span Tables

Deflection <math>< L/200</math>

Profile Ref:	38/914 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:	Steel							
	0.7	2.29	2.42	18.36	32.80				
	0.5	1.46	1.49	12.88	18.12				

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	781	6.45	5.42	4.62	3.98	3.47	3.05	2.70	2.41	2.16	1.95	1.77	1.61	1.48	1.36	1.25	1.15	
	Inertia	10.14	7.62	5.87	4.62	3.70	3.00	2.48	2.06	1.74	1.48	1.27	1.10	0.95	0.83	0.73	0.65	0.58	
	Reaction	24.16	21.96	20.13	18.58	17.26	16.11	15.10	14.21	13.42	12.72	12.08	11.50	10.98	10.50	10.07	9.66	9.29	
	Limiting	781	6.45	5.42	4.62	3.70	3.00	2.48	2.06	1.74	1.48	1.27	1.10	0.95	0.83	0.73	0.65	0.58	
0.7mm	Moment	12.20	10.08	8.47	7.22	6.22	5.42	4.76	4.22	3.76	3.38	3.05	2.77	2.52	2.31	2.12	1.95	1.80	
	Inertia	14.45	10.86	8.37	6.58	5.27	4.28	3.53	2.94	2.48	2.11	1.81	1.56	1.36	1.19	1.05	0.93	0.82	
	Reaction	43.73	39.75	36.44	33.64	31.23	29.15	27.33	25.72	24.29	23.02	21.86	20.82	19.88	19.01	18.22	17.49	16.82	
	Limiting	12.20	10.08	8.37	6.58	5.27	4.28	3.53	2.94	2.48	2.11	1.81	1.56	1.36	1.19	1.05	0.93	0.82	

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	7.93	6.55	5.51	4.69	4.05	3.52	3.10	2.74	2.45	2.20	1.98	1.80	1.64	1.50	1.38	1.27	1.17	
	Inertia	24.43	18.35	14.14	11.12	8.90	7.24	5.96	4.97	4.19	3.56	3.05	2.64	2.29	2.01	1.77	1.56	1.39	
	Reaction	15.10	13.73	12.58	11.61	10.79	10.07	9.44	8.88	8.39	7.95	7.55	7.19	6.86	6.56	6.29	6.04	5.81	
	Interaction	4.75	4.09	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	Limiting	4.75	4.09	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	
	Moment	12.89	10.66	8.95	7.63	6.58	5.73	5.04	4.46	3.98	3.57	3.22	2.92	2.66	2.44	2.24	2.06	1.91	
	Inertia	34.82	26.16	20.15	15.85	12.69	10.32	8.50	7.09	5.97	5.08	4.35	3.76	3.27	2.86	2.52	2.23	1.98	
	Reaction	27.33	24.85	22.78	21.02	19.52	18.22	17.08	16.08	15.18	14.38	13.67	13.01	12.42	11.88	11.39	10.93	10.51	
	Interaction	8.47	7.27	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	8.47	7.27	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	