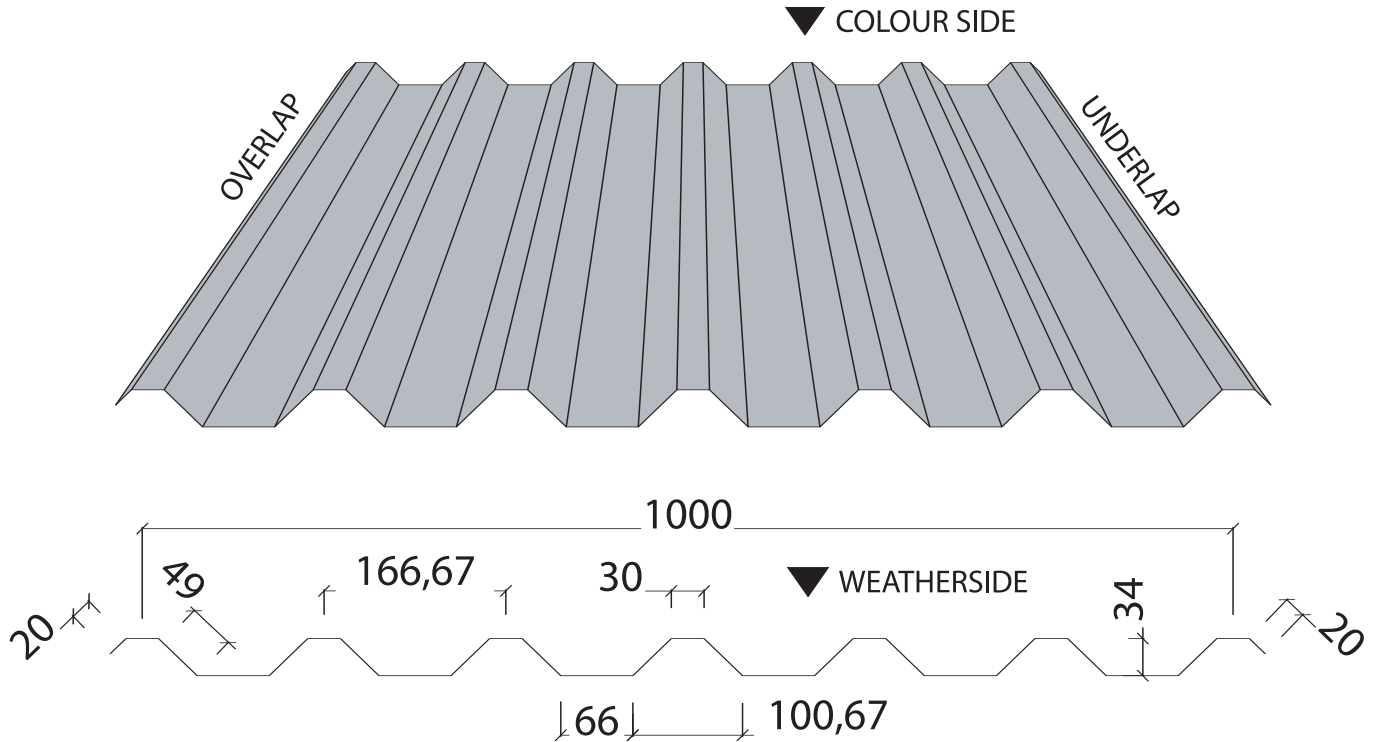


# Colorpro Profiles

## 34-1000 FORWARD



### DIMENSION DETAILS

PROFILE DEPTH:	34mm
COVER WIDTH:	1000mm
CROWN WIDTH:	30mm
RIB WIDTH:	100.67mm
PROFILE PITCH	166.67mm
WEB:	49mm
VALLEY WIDTH	66mm
OVERLAP	20mm
UNDERLAP	20mm

### 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

The equal lap finish of this profile, as illustrated above, allows the sheet to be laid from either direction, which can be desirable or essential, on certain types of roofing environments.

This configuration utilises 1220mm wide coils. Coils in the 1220-1250 range would automatically produce a larger underlap leg.

# Load Span Tables

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

Profile Ref:	34/1000 FORWARD	Profile Type:	Steel	t(mm)		Mcap+ve (KNm/m)		Mcap-ve (KNm/m)		Ieff (mm <sup>4</sup> /m)	Rcap (kN/m)	Deflection Limit under working load = L/200
				0.7	0.5	2.06	1.26	2.02	1.24			

## Single Span Case - Permissible Working +ve Loads (kN/m<sup>2</sup>)

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	6.71	5.55	4.66	3.97	3.42	2.98	2.62	2.32	2.07	1.86	1.68	1.52	1.39	1.27	1.16	1.07	0.99
	Inertia	7.37	5.53	4.26	3.35	2.68	2.18	1.80	1.50	1.26	1.07	0.92	0.80	0.69	0.61	0.53	0.47	0.42
	Reaction	21.01	19.10	17.51	16.16	15.01	14.01	13.13	12.36	11.67	11.06	10.51	10.01	9.55	9.14	8.75	8.04	8.08
	Limiting	6.71	5.53	4.26	3.35	2.68	2.18	1.80	1.50	1.26	1.07	0.92	0.80	0.69	0.61	0.53	0.47	0.42
0.7mm	Moment	10.99	9.08	7.63	6.50	5.61	4.88	4.29	3.80	3.39	3.04	2.75	2.49	2.27	2.08	1.91	1.76	1.63
	Inertia	11.12	8.35	6.43	5.06	4.05	3.29	2.71	2.26	1.91	1.62	1.39	1.20	1.04	0.91	0.80	0.71	0.63
	Reaction	38.07	34.61	31.72	29.28	27.19	25.38	23.79	22.39	21.15	20.03	19.03	18.13	17.30	16.55	15.86	15.23	14.64
	Limiting	10.99	8.35	6.43	5.06	4.05	3.29	2.71	2.26	1.91	1.62	1.39	1.20	1.04	0.91	0.80	0.71	0.63

## Double Span Case - Permissible Working +ve Loads (kN/m<sup>2</sup>)

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	6.62	5.48	4.60	3.92	3.38	2.94	2.59	2.29	2.04	1.84	1.66	1.50	1.37	1.25	1.15	1.06	0.98
	Inertia	17.75	13.33	10.27	8.08	6.47	5.26	4.33	3.61	3.04	2.59	2.22	1.92	1.67	1.46	1.28	1.14	1.01
	Reaction	13.13	11.94	10.49	10.10	9.38	8.75	8.21	7.72	7.30	6.91	6.57	6.25	5.97	5.71	5.47	5.25	5.05
	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
	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
0.7mm	Moment	10.78	8.91	7.48	6.38	5.50	4.79	4.21	3.73	3.33	2.99	2.69	2.44	2.23	2.04	1.87	1.72	1.59
	Inertia	26.78	20.12	15.50	12.19	9.76	7.94	6.54	5.45	4.59	3.90	3.35	2.89	2.52	2.20	1.94	1.71	1.52
	Reaction	23.79	21.63	19.83	18.30	16.99	15.86	14.87	13.99	13.22	12.52	11.90	11.33	10.81	10.34	9.91	9.52	9.15
	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	2.23	2.04	1.87	1.71	1.52