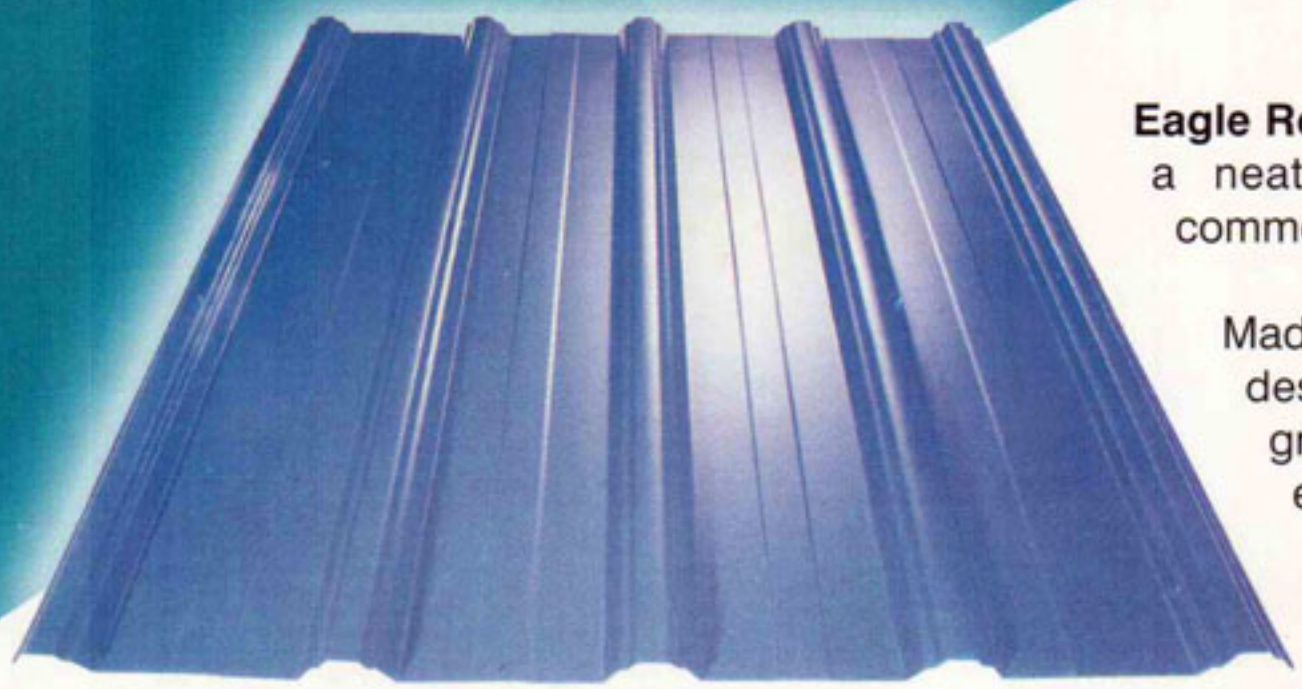
ROOF



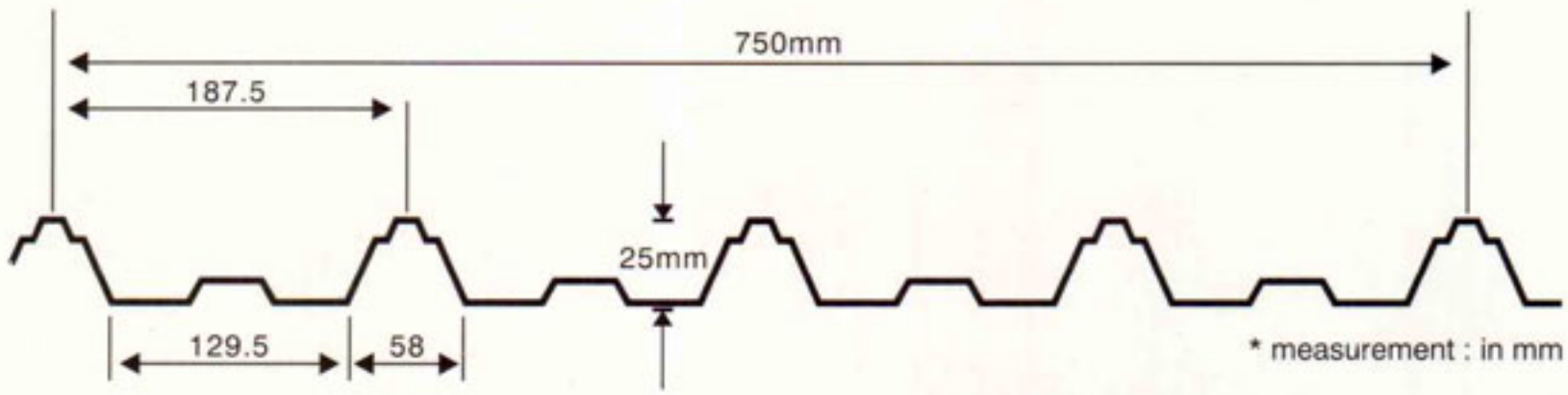
Eagle Roofing System is specially designed to give a neat and bold appearance for industrial, commercial and domestic constructions.

Made of high tensile steel it has great spanning despite capacity its lightness. This allow greater purlin of girt spacing, improving the economy of supporting structures.

It consists of high tensile steel substrate protected with corrosion inhibitive treatments and coating designed to provide the broad spectrum of performance that is essential for long life and minimum maintenance.

Fixing is fast and economical due to its design simplicity. The continuous lengths and weather proof side lap allow **Eagle Roofing System** to be used safely on roof pitches from as low as three degree (3°).

Eagle Roofing System high tensile sheet is available in Aluzinc / Zincalume and Coloured / Colourbond.



TECHNICAL SPECIFICATION

Thickness (TCT) mm±	Weight kg / m2	Width of Coverage mm	Rib Height mm	Minimum Recommended Pitch
0.48	4.40	750	25	3°
0.43	3.88	750	25	3°
0.38	3.40	750	25	3°

LOADING CAPACITY

Thickness (TCT) mm±	SPAN	mm	900	1050	1200	1350	1500	1650	1800	1950	2100
0.48	Safe distributed load	kpa	6.1	4.5	3.4	2.7	2.2	1.8	1.5	1.3	1.1
	Deflection under above load	mm	3.0	3.0	5.0	6.0	7.0	9.0	10.0	12.0	14.0
	Safe wind uplift	kpa	4.0	3.4	3.0	2.6	2.3	2.0	1.8	1.6	1.4
0.43	Safe distributed load	kpa	5.4	4.1	3.0	2.4	1.9	1.6	1.3	1.1	1.0
	Deflection under above load	mm	2.9	2.9	4.8	5.9	6.9	8.9	9.9	11.9	13.9
	Safe wind uplift	kpa	3.5	2.9	2.5	2.1	2.0	1.9	1.7	1.5	1.3
0.38	Safe distributed load	kpa	4.6	3.4	2.5	2.0	1.7	1.4	1.1	1.0	0.9
	Deflection under above load	mm	2.8	2.8	4.7	5.8	6.8	8.8	9.8	11.8	13.8
	Safe wind uplift	kpa	3.0	2.6	2.3	2.0	1.8	1.7	1.5	1.3	1.1

RECOMMENDED MAXIMUM PURLING SPACING

Thickness (TCT) mm±	ROOF			WALLS			Max Roof Overhang Unsupported
	Single Span	End Span	Internal Span	Single Span	End Span	Internal Span	
	mm	mm	mm	mm	mm	mm	mm
0.48	1100	1100	1800	2000	2000	2400	150
0.43	900	900	1600	1800	1800	2200	150
0.38	700	700	1400	1600	1600	2000	120

INSTALLATION

INSTALLATION PROCEDURES

It is strongly recommended that sheets are laid with the side laps facing away from the direction of the prevailing wind. Where possible, the roof sheets should be fixed with the side laps facing away from the normal line of sight.

LAYING PROCEDURE

Prevailing Wind Direction →

← **Eagle Roofing System** Sheet Laying Direction

SIDE LAP and FLASHING

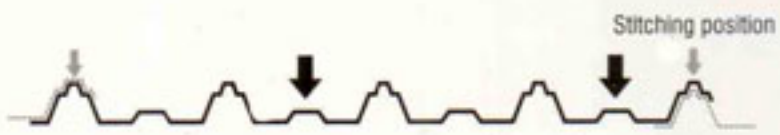
Side laps fasteners are required at mid-spans for purlin spacings over 1000m and for girt spacing over 1,2000mm. For all side lap and flashing fastening. Use on 10 x 25mm self drilling Hexagon Head Screw with pre-assembled neoprene bonded steel washer.

ENDS LAP

Eagle Roofing System is available in continuous length limited only by the maximum transportable length of 20m. For longer length, end lap is necessary. Maximum end lap should be 200mm and for roof pitches below 8°, the lap should be treated with a recommended sealant.

VALLEY FIXING OF EAGLE ROOFING SYSTEM

Valley Fixing Positions (Recommended for Roofing)& Stitching Position



Valley Fixing to Steel

No. 10 x 20mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer

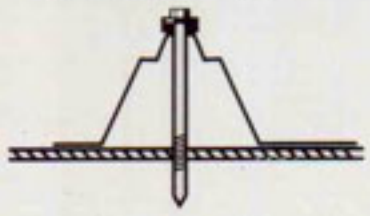
Valley Fixing to Timber

No. 10 x 25mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer

CREST FIXING OF EAGLE ROOFING SYSTEM

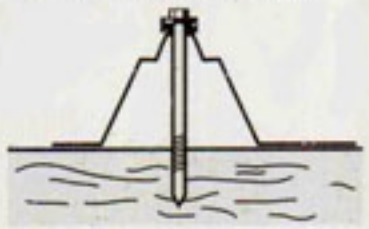
Crest Fixing Positions (Recommended for Roofing)

Crest Fixing to steel



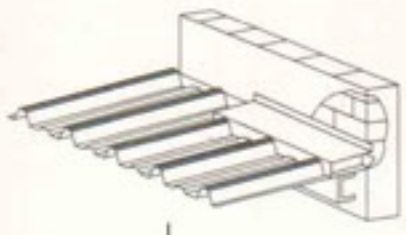
No. 12 x 45mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer

Crest Fixing to Timber

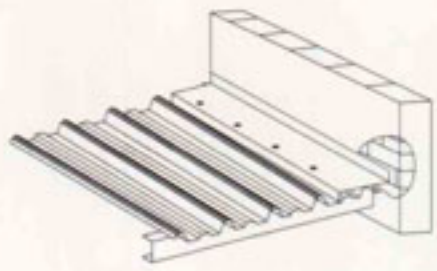


No. 10 x 59mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer

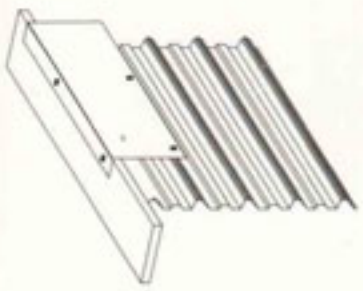
FLASHING & CAPPING FIXING PROCEDURE



Transverse flashing bent three times with one end embedded in concrete and the other notched and turned down between ribs

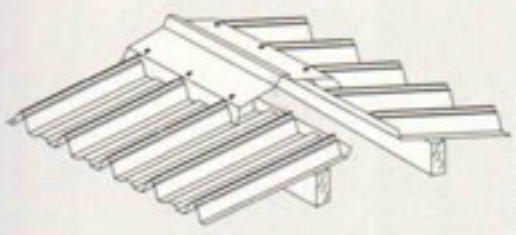


Longitudinal flashing bent three times with one end embedded in concrete and other dressed over **Eagle Roofing System** roofing sheet



Longitudinal fascia capping bent twice with one end fixed to barge board and the other dressed over **Eagle Roofing System** roofing sheet

Transverse fascia capping bent twice with one end fixed to barge board and the notched and turned down between ribs.



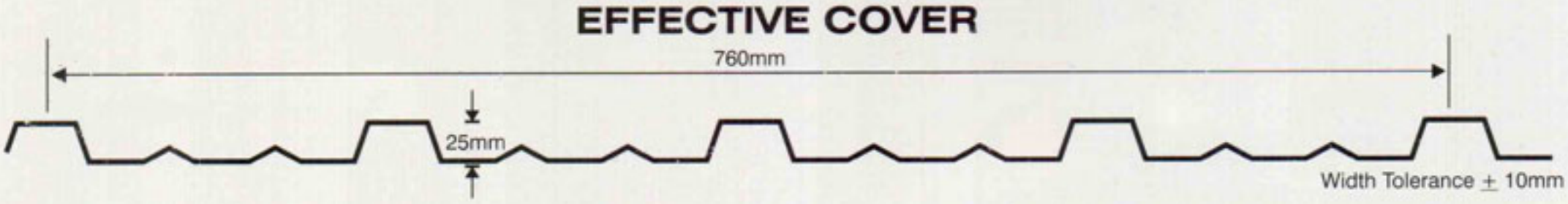
Ridge capping notched and turned down in between ribs with **Eagle Roofing System** turned 45°

CLAD

TECHNICAL SPECIFICATION

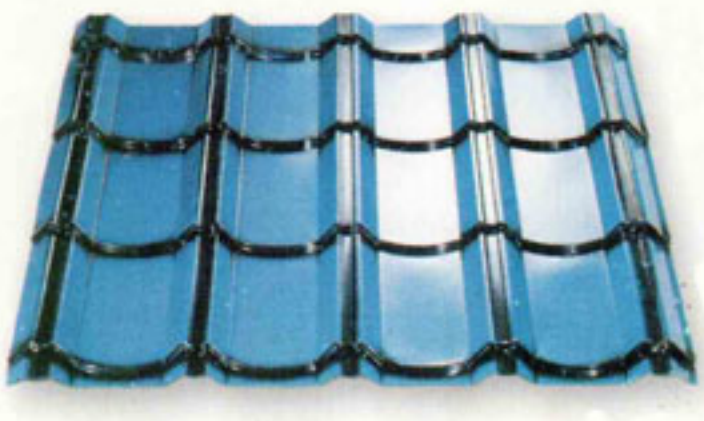
Gauge	Thickness	Mass	Roofs		Walls	
	mm± (TCT)	kg/m2	Internal Span	End Span	Internal Span	End Span
35	0.240	2.00	-	-	1000	800
32	0.260	2.30	800	500	1000	800
30	0.300	2.65	800	500	1000	800

EFFECTIVE COVER



OEM RELATED PRODUCTS

Eagle 305 Roofing Tile



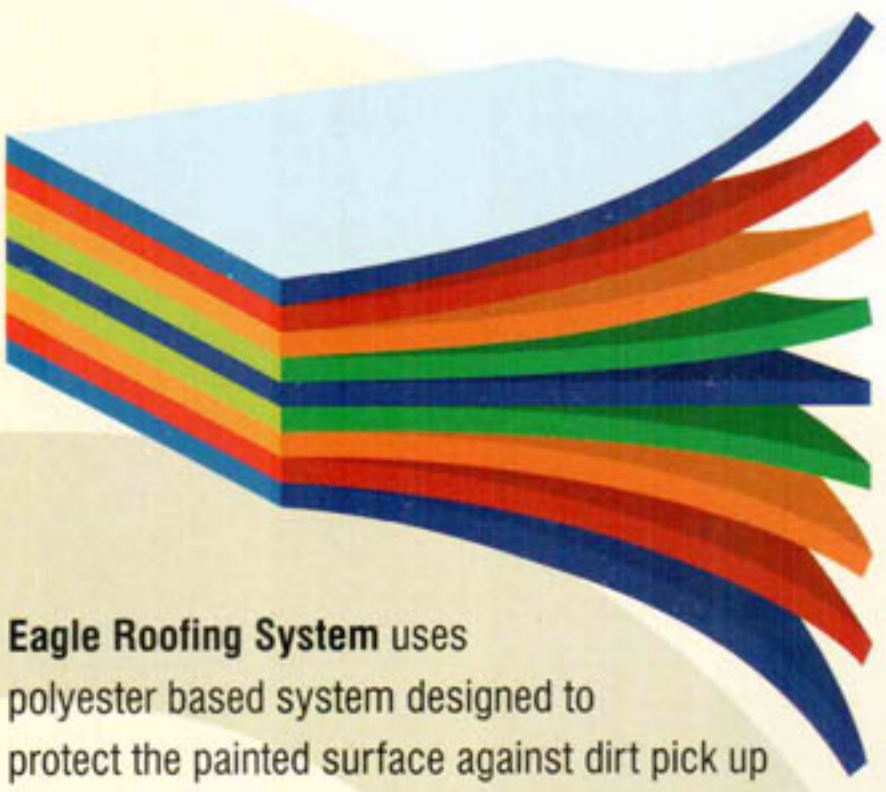
Eagle Fascia Tiles

Eagle Standard Crimp Curve

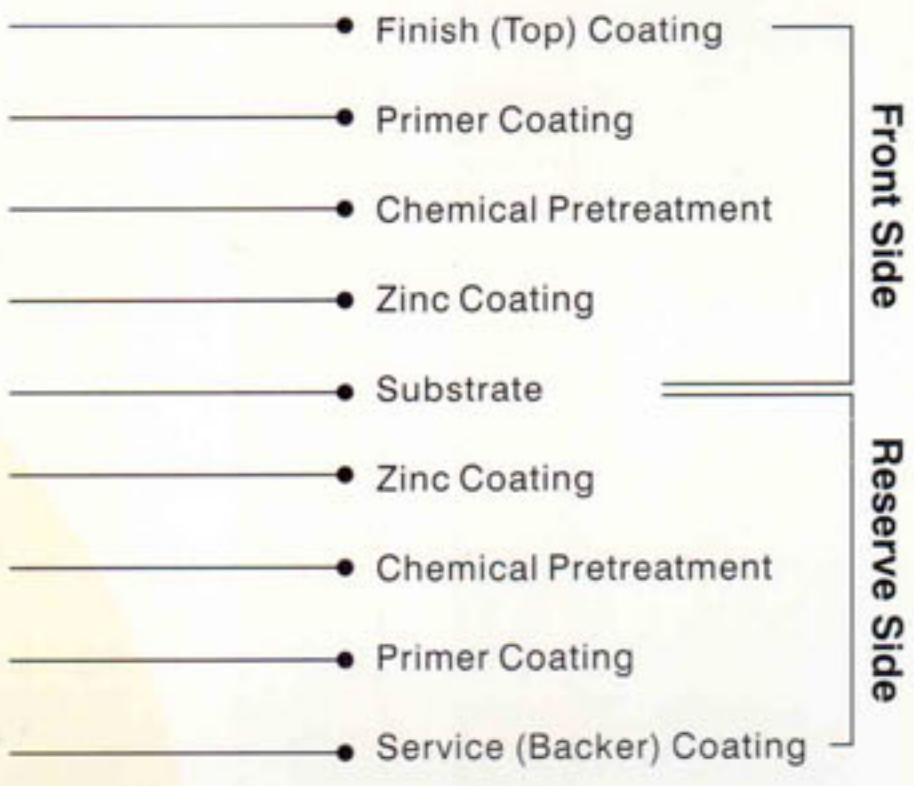
MATERIAL SPECIFICATIONS

MATERIAL TEST PERFORMANCE

TEST ITEM	TEST METHODS	TEST RESULT
GLOSS	60° gloss meter	20% - 90%
PENCIL HARDNESS TEST	Scratched by STAEDTLER or MITSHUBISHI UNI-PENCIL harder than "H"	2H - 3H Good
CROSS CUT TEST	100 grids of 1mm x 1mm by knife	Good
IMPACT TEST	Drop steel ball of 8.9N weight and 15.9mm diameter	No crack
BENDING TEST	The test piece is bent with hand vise or other suitable means at right angle to the longitudinal direction of the test piece	2T No peeling
RESISTANCE TO S)LVENT TEST	Rubbed by gauze soaked in M.E.K (or Xylene)	60 times Good
SALT WATER SPRAY TEST	Continuous exposure to a fog of 5% salt solution at 35°C for 1000 hours	Good
ULTRAVIOLET RAYS TEST	8 hours of UV exposure at 60°C, alternating with 4 hours of condensation at 50°C. Specimens were exposed for 1000 hours. The irradiance set was 0.77W/m2/nm with wavelength ranged between 295nm - 340nm at 20 - 30°C.	Good



Eagle Roofing System uses polyester based system designed to protect the painted surface against dirt pick up



COATING THICKNESS

Type	Thickness Available
Service (Backer) Coat	5 - 10 µm max.
Primer Coat	5 - 10 µm max.
Finish Coat	10 - 20 µm max.
Primer Coat + Finish Coat	20 - 40 µm max.

PAINTS

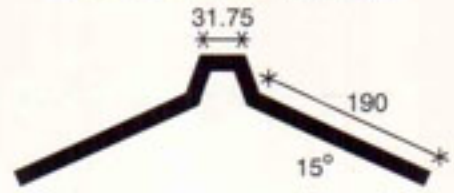
Type	Paint Base
Primer Coat	Epoxy
Service (Backer) Coat	Polyester
Finish (Top) Coat	Polyester

ACCESSORIES

STANDARD CAPPING/FLASHING

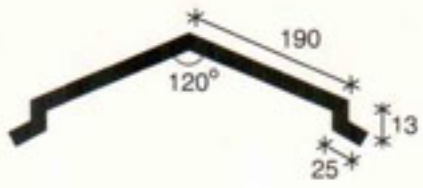
VALLEY TRAY TYPE 24

RIDGE CAPPING TYPE 18

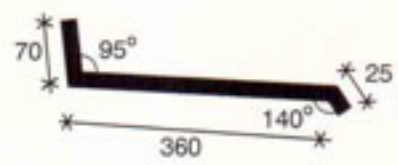


VALLEY TRAY TYPE 18

HIP CAPPING TYPE 18

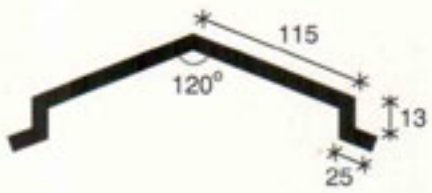


FLASHING TYPE 18a

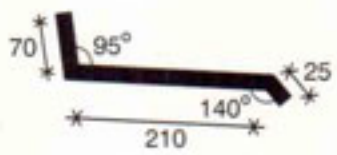


FLASHING TYPE 18b

HIP CAPPING TYPE 12

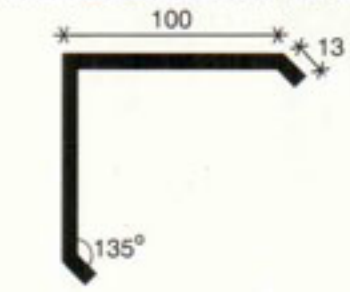


FLASHING TYPE 12a

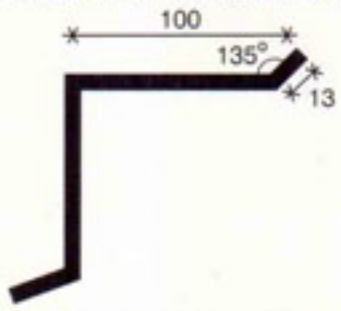


FLASHING TYPE 12b

CORNER CAPPING TYPE 9E



CORNER CAPPING TYPE 9I



Remarks:
All accessories are available in standard length of 8ft

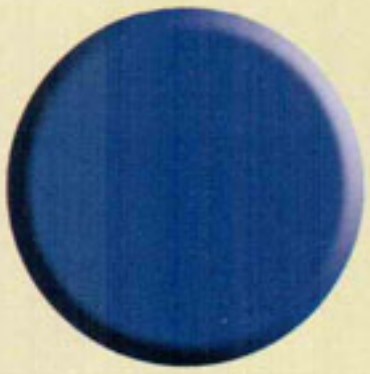
COLOUR CHART

SUPER RED

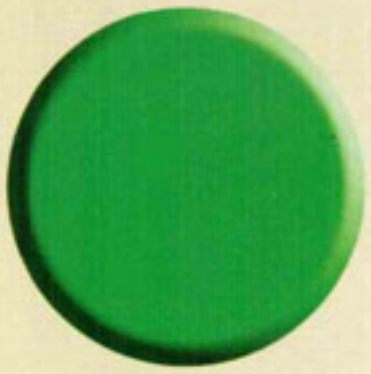
SUPER BLUE

YODO GREEN

IVORY



FINA BLUE



PLUS GREEN

ALUZINC

LIGHT GREY
(REVERSE SIDE)