

**THE PLASTIC HANDRAIL CO. LTD.
UNIT 6, BESSEMER PARK,
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JUNE 2013

POLYRAIL VINYL HANDRAIL

TECHNICAL DATA SHEET

Polyrail is made of Thermoplastic Poly Vinyl Chloride (PVC) and has been developed to comply with the new D.D.A. (Disability Discrimination Act) requirements. Polyrail is suitable for internal or external use. We would only recommend Black for external use, as colours are inclined to fade when exposed to ultra-violet light (direct sunlight).

Polyrail is made in two basic sections:- Oval Sections and Round Sections.

Oval Sections are made in three sizes:- (see enclosed leaflet)

- P.308 to fit 30mm x 8mm core mounted on standards no wider than 20mm.**
- P.408 to fit 40mm x 8mm core mounted on standards no wider than 25mm.**
- P.508 to fit 50mm x 8mm core mounted on standards no wider than 30mm.**

Round Sections are made to two sizes - 40mm and 55mm overall diameter.

- R.40 (40mm o/d) to fit 25mm x 15mm core mounted on 10mm spigots or brackets.**
- R.55 (55mm o/d) to fit 40mm x 8mm core mounted on 25mm wide standards.**

ALL SECTIONS ARE THICKER THAN 4.5mm AND ARE “WARM TO THE TOUCH”.

THE OVAL SECTIONS are available in ten standard colours.

There are six bright colours for the “visually impaired”:-

- MID GREY 004, WHITE 008, SILVER 019, GOLD 020, YELLOW 022,**
- and BRIGHT RED 027**

and four dark colours for the “partially sighted” to contrast with white or light coloured balustrades and background decorations:-

- BLACK 001, DARK GREEN 021, NAVY BLUE 025 and DARK BROWN 028**

We keep stocks of all these ten colours in London. There are another fifteen special colours, which can be made to special order provided quantities exceed 250 metres and a four week delivery period is given.

THE OVAL SECTIONS can be bent around tight radius bends. The formula for the minimum internal radius of a level bend (on plan) is :- $1.5 \times$ the width of the core, therefore:-

P.308 on 30mm x 8mm - $1.5 \times 30\text{mm} = 45\text{mm}$ is the minimum internal radius.

P.408 on 40mm x 8mm - $1.5 \times 40\text{mm} = 60\text{mm}$ is the minimum internal radius.

P.508 on 50mm x 8mm - $1.5 \times 50\text{mm} = 75\text{mm}$ is the minimum internal radius.

'Swannecks' or bends in elevation (when dropping from 1100mm to 900mm off pitch line) should be bent to a minimum radius of 25mm (top and bottom).

Vertical mitres should not be used.

When using metallic cappings such as GOLD, SILVER, BRONZE OR COPPER, the edges of the stopends and the weld line across the mitres will show darker than the surface colour. This does not occur with plain colours.

THE ROUND SECTION should be bent to a minimum internal radius of 100mm (on plan) and swannecks (in elevation) should be bent to a radius of 75mm at the top and bottom of the drop from 1100mm to 900mm off the pitch line. Ramps from level to raking and from raking to level should be bent to a radius of 50mm.

The ends of the round sections should extend 300mm on to the landing and be left straight, not turned down, as these handrails are too large to slip up a coat sleeve (the reason for turning them down). If scroll ends are required, they should be bent to a radius of 100mm.

Square corners with mitred joints should not be used on the Round Handrails as these can be a Health & Safety hazard. These sharp corners are at about eye level for a wheelchair operator. Radius bends are safer.

The Round Handrails are available in the following colours:-

R.40:- BLACK 001, MID GREY 004, WHITE 008, SILVER 019 and NAVY BLUE 025.

R.55:- BLACK 001, MID GREY 004, SILVER 019 and NAVY BLUE 025.

We offer a nationwide 'SUPPLY & FIX' service for all our handrails and we will be pleased to quote for any current or proposed contracts. Let us have the approximate quantity of handrail required, the size of the core rail, on which it is to be fitted and the location of the job. It would also help to know the width of the main standards, to make sure that they do not foul the lips of the handrail and whether the corners are radiused or square, needing mitres. If there are a number of blocks, it would be useful to know how many blocks, so we can work out how many visits to site are required.

Once we have this specification, we can quote for installing Polyrail on site. Our quotations remain firm for 12 months. We can usually be on site within 7 - 10 working days of receiving your written order, but we may be able to improve on this, if it is an emergency.

POLYRAIL is sold on a 'SUPPLY ONLY' basis to APPROVED PLASTIC HANDRAIL CONTRACTORS ONLY.

PLASTIC HANDRAILS

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Registered in England No: 00700946
Registered Office: 4 Croxted Mews,
Croxted Road, Herne Hill, London SE24 9DA

Your Ref:

Our Ref:

Date:

POLYRAIL COLOURS AND CLOSEST RAL COLOURS

<u>COLOUR</u>	<u>POLYRAIL No.</u>	<u>Approx. RAL No.</u>	<u>Approx. Light reflectance values</u> <u>(LTV)</u>
BLACK	001	9017	2
GREY	004	7037	20
WHITE	008	9010	84
SILVER*	019	9007	*Pearlescent or N/A
GOLD *	020	1036	Metallic colours N/A
DARK GREEN	021	6005	4
YELLOW	022	1023	53
NAVY BLUE	025	5013	3
RED	027	3001	8
DARK BROWN	028	8017	3
<u>R.40 only</u> ORANGE	005	2010	21