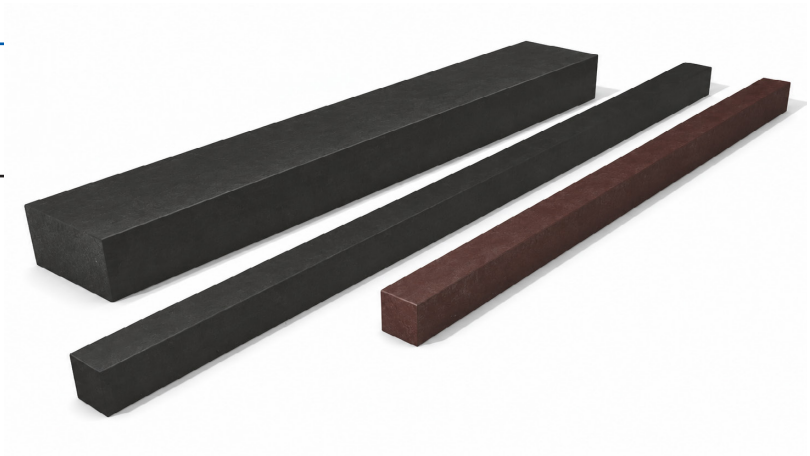
POLYMER SUBFRAME

Polymer profiles are produced from 100% recycled plastic, which consists mostly of non-toxic household waste. Composition is High and Low Density Polyethylene (HDPE, LDPE), Polypropylene (PP) and polystyrene (PS). Manufactured using extrusion, they have smooth surface finish, making them suitable for both professional and DIY projects.

PRODUCT DETAILS

Product codes:

7401505036B, 7401959536B, 740140403BN, 7401955036B, 74011405036B



APPLICATIONS

- Decking subframe
- Agricultural construction
- Marine construction
- Barriers
- Fencing
- Benches
- Outdoor furniture

MAIN BENEFITS

- Long life expectancy
- Weather-resistant
- Non-toxic
- Easy to clean and install
- Long-term cost effective
- Maintenance free
- Low carbon footprint

DETAILS

Composition	LDPE, HDPE, PP, PS
Density	0,75 kg/dm 3
Linear expansion coefficient	0,099 mm/m/ o C
Water absorption according to ISO 62	0,43%
Vicat temperatuure according to ISO 306	77° C
Flammable tests according to ISO 13501-1	E fl
Sound absorption according to EN 1793-1	A1
Sound insulation according to EN 1793-2	B3
Slip resistance according to DIN 51130	R10
Toxity report	non-toxic
UV-impairment ASTM G154	E= 1,8

RESISTANCE TO CHEMICALS

White Spirit	Mixture of aliphatic hydrocarbons	No discolouration or modification
Charcoal Lighter Fluid	Mineral spirits	No discolouration or modification
Liquid Bleach	NaOCl	No discolouration or modification
Hot Baking Oil	Rapeseed oil	No discolouration or modification

MECHANICAL PROPERTIES OF NEULAR PROFILES

Screw extraction test:
Screw D4 x 50 in non pre-drilled hole
Drawning speed 10 mm/min
Tensile force 4000 N
95x95 mm profile: Average screw withdrawal strength of 1770 ± 80 N (EN 320).

IMPACT ACCORDING TO ISO 1791

Impact according to EN1411:1999 (6,25 kg)

32 x 138mm	1075mm
95 x 32mm	600mm
70 x 20mm	150mm

50x140 mm profile: Average flexural strength of 14.6 ± 0.48 N/mm² and modulus of elasticity of 751 ± 17.9 N/mm² (ISO 178).

PERMISSIBLE LOAD OF THE TERRACE BASE FRAME

Neular profiles permissible load of the terrace base frame

Distance of the next beam 400mm kmod=0.8

Allowed deflection L/200

Permissible load per surface unit kg/m2

Span m	Beam mm		
	50 x 140	95 x 95	50 x 95
0.9	400	300	200
1.2	300	200	150
1.5	200	120	100

INSTALLATION & MAINTENANCE

- Polymer profiles can be machined with the same tools as wood: screwed, nailed, drilled, milled, sawed, stapled etc.
- Drilling and milling should be done at low speeds
- When sawing, prefer a circular saw
- Stainless screws larger than D4 mm should be preferred
- Pre-drilling of screws is recommended for screw sizes over 5mm in diameter
- Mount the profiles at the location's average temperature to minimize heat tolerance expansion
- During installation it's advised to keep profiles from direct sunlight
- Cleaning with low-pressure washers and standard household cleaning agents is advised
- Strong acids and abrasive cleaners should be avoided as they can damage the surface

SPECIFIC PRODUCT CHARACTERISTICS

- The color of 100% recycled plastic products can vary from batch to batch due to the diverse sources of recycled raw material
- Recycled plastic products can have a tolerance of 5% in length

Whilst every effort has been made to ensure the accuracy of the information supplied. F.H.Brundle cannot be held responsible for any errors or omissions. This product must only be employed for its original intended use. Any other use is wrong and potentially dangerous. Installation must be carried out in full compliance with current regulations. F.H.Brundle cannot be held liable for any damages resulting from wrongful, erroneous or negligent use.

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