Marpet

—

Mould
& Create

**Brett
Martin**

Design & Create

With Brett Martin's Marpet Range

The unique combination of exceptional properties that the Marpet-g FS and Marpet-a FS PET range offers enables the formation of endless shapes, making Marpet the perfect choice for print, fabrication, cold bending and thermoforming applications.

PET's exceptional processing abilities make Marpet-g FS and Marpet-a FS ideal for the sign and display industry enabling designers to realise more complex shapes, as well as for glazing and protective applications including poster covers and machine guards.

The Marpet PET range consists of Marpet-g FS PETg and Marpet-a FS aPET, two transparent polyester sheets that both offer high optical clarity and light transmission, good impact resistance, chemical resistance and fire performance.

We also offer Marpet-g FS Eco, an environmentally friendly PETg containing at least 50% regrind and Marpet-a FS AR, an aPET flat sheet with anti-reflective properties.
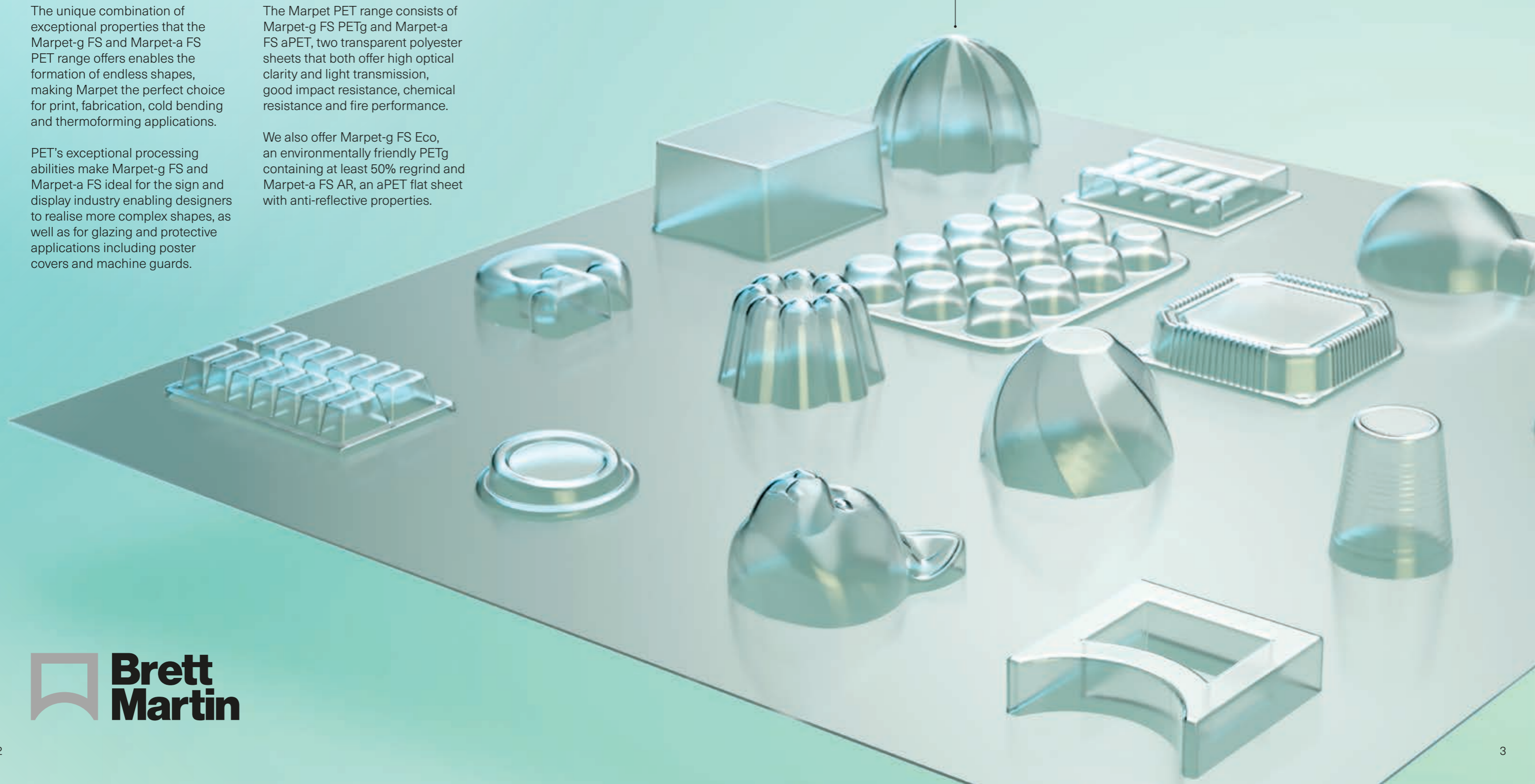
Marpet-g FS

Marpet-g FS Eco

Perfect for complex thermoforming

Marpet-a FS

Marpet-a FS AR

Ideal for flat and cold bending applications

Brett Martin

Marpet-g FS | Marpet-g FS Eco

Marpet-g FS is a clear, transparent co-polyester that can be used as an alternative to polycarbonate, acrylic and PVC sheets. Its key benefit is its exceptional ease of workability and thermoformability particularly at low temperatures which facilitates a wide range of applications.

Marpet-g FS PETg offers excellent strength to weight ratio, outstanding optical clarity, superior chemical resistance, durability, good fire performance and is 100% recyclable. Marpet-g FS is made from a resin which has food grade approval.

Marpet-g FS Eco is manufactured using at least 50% regrind, which is produced on-site under closely monitored conditions to ensure consistent quality.

Applications

- Point of sale
- Illuminated/non-illuminated signage
- Light boxes
- 3D displays & graphic arts
- Poster covers
- Non-food packaging
- Glazing
- Protective screens
- Industrial trays
- Home applications e.g. furniture and shower surrounds
- Prosthetic check sockets

Printing, Fabrication & Thermoforming

Marpet-g FS has the triple advantages of being suitable for digital printing, a wide range of fabrication techniques and thermoforming at relatively low temperatures without pre-drying. This allows engineers and designers to create complex shapes and end products, either with or without printing. The 15mm sheet is perfect for applications that require a deeper draw.

Chemically Resistant & Durable

Marpet-g FS exhibits superior chemical resistance which means that the product's strength, flexibility and appearance is unchanged by many chemicals, including cleaning agents, and atmospheric pollutants. This make it suitable for applications in industrial, commercial and residential settings.

Impact Resistance

Marpet-g FS's strength to weight ratio, durability and impact resistance make it suitable for glazing applications such as machine guards, vending machines, office partitions and shower surrounds.

Eco Option Available

We believe in minimising on-site waste and reusing whatever production waste is unavoidably generated. Marpet-g FS Eco, which contains at least 50% regrind, reduces the amount of PETg waste that goes to landfill. Available in limited quantities, Marpet-g FS Eco can be processed in the same way as standard Marpet-g FS.

Product Options

Marpet-g FS | Marpet-g FS Eco

Material Properties

Property	Standard	Value	Unit
Density	ISO 1183-1	1.27	g/cm³
Transmission at 3mm	ISO 13468-1	88	%
Flexural Strength	ISO 178	80	MPa
Tensile Strength at Yield	ISO 527	50	MPa
Heat Deflection Temperature	ISO 75-2	72	°C
Thermal Expansion	ISO 11359-2	0.065	mm/m°C
Service Temperature - Long Term	-	-20 to +60	°C

Processing

- Digital and screen printing
- Vinyl application
- Fabrication
- Routering, milling, sawing
- Guillotining, die cutting
- Engraving
- Laser cutting
- Drilling
- Thermoforming
- Welding
- Cold curving
- Laminating
- Bonding

Marpet-g FS Product Options

Sheet Size (mm)	Thickness (mm)
1250 x 2050	0.5, 0.75, 1, 1.5 & 1.8
1250 x 2500	0.5, 0.75, 1, 1.5 & 1.8
2500 x 1250	2, 3, 4, 5, 6, 8, 10, 12 & 15*
2050 x 3050	2, 3, 4, 5, 6, 8, 10, 12 & 15*

*Subject to request.
Minimum order quantities may apply.
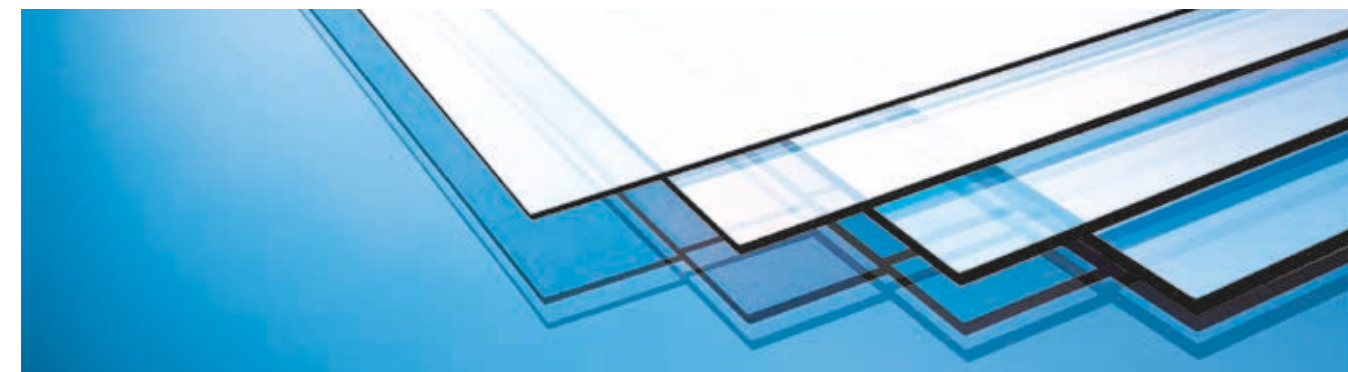
Anti-reflective option*

UV resistant option*

Marpet-g FS Eco** Product Options

Sheet Size (mm)	Thickness (mm)
1250 x 2050	0.5, 0.75, 1, 1.5, 2
2050 x 3050	2, 3

** Limited availability only

Clear

For technical and processing information go to brettmartin.com/marpetgfs or contact our Technical Department.

Marpet-a FS | Marpet-a FS AR

Marpet-a FS aPET is a high optical grade amorphous PET sheet, ideal for flat and cold bending applications. It combines exceptional quality, excellent transparency, impact strength, chemical resistance and fire performance, and is 100% recyclable, making Marpet-a FS suitable for a wide range of applications.

Applications

- Point of sale
- Illuminated/non illuminated signage
- Poster covers
- Shop fittings
- Glazing
- Cold food storage
- Protective screens
- Machine guards
- Visors

Good Scratch Resistance

Marpet-a FS exhibits very good scuff and scratch resistance which, when combined with its superior chemical resistance, makes it ideal for high traffic applications or where the end product will be frequently cleaned such as point of sale displays, shop fittings, poster covers and visors.

Easy to Cold Curve

Marpet-a FS is ideal for flat and cold bending applications. Its ability to cost effectively machine and cold bend makes it particularly well suited to the fabrication of items for the visual communication sector including Point of Sale display stands, poster glazing and illuminated signs.

Excellent Transparency

Marpet-a FS's transparency and optical clarity make it suitable for applications where clear vision is of the utmost importance, such as visors, machine guards, protective screens and poster covers.

Anti-reflective Properties

Marpet-a FS is available with an anti-reflective surface. Combined with Marpet-a FS's light transmission of 86% at 3mm, this makes it ideal for picture framing and poster covers.

Product Options

Marpet-a FS | Marpet-a FS AR
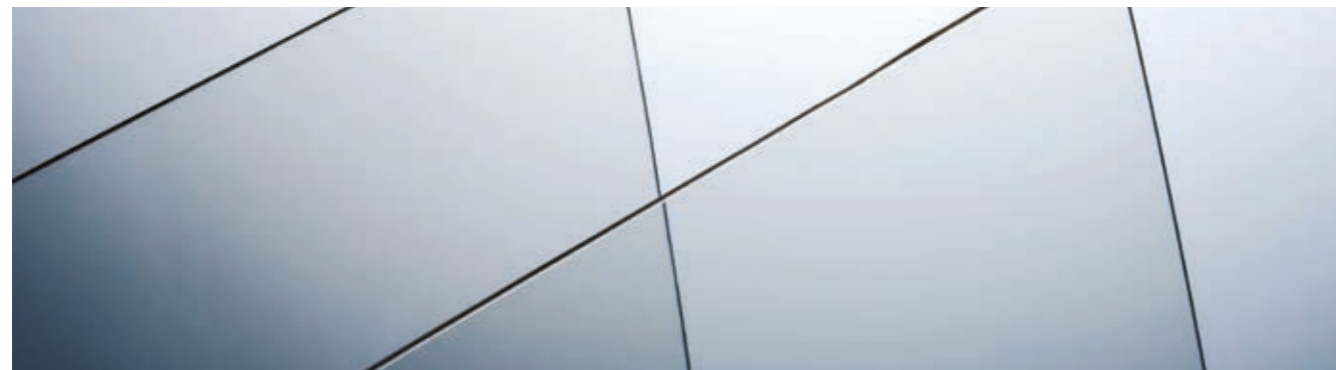
Material Properties

Property	Standard	Value	Unit
Density	ISO 1183-1	1.33	g/cm³
Transmission at 3mm	ISO 13468-1	86	%
Flexural Strength	ISO 178	86	MPa
Tensile Strength at Yield	ISO 527	55	MPa
Heat Deflection Temperature	ISO 75-2	67	°C
Thermal Expansion	ISO 11359-2	0.065	mm/m°C
Service Temperature - Long Term	-	-20 to +60	°C

Product Options

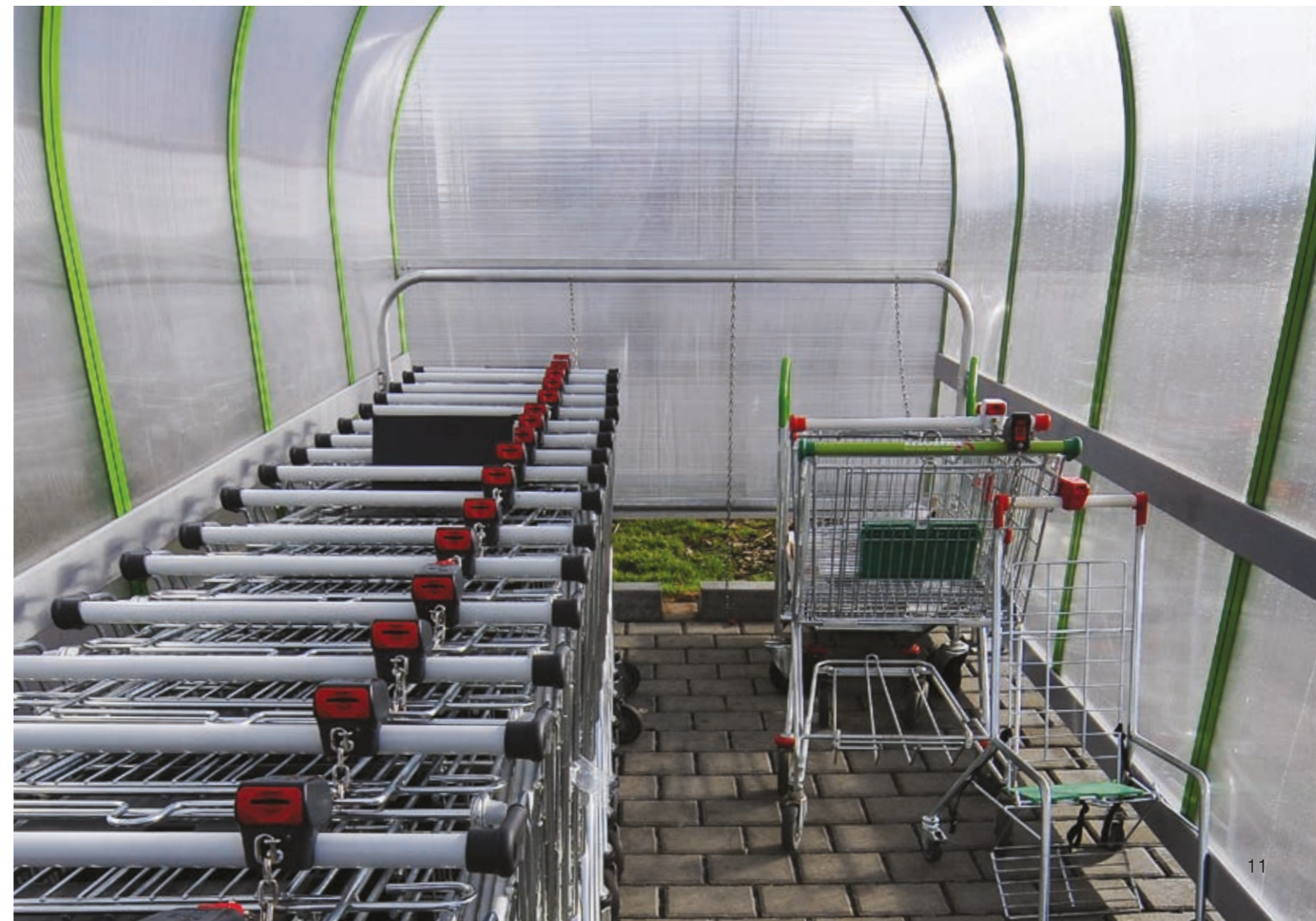| Sheet Size (mm)	Thickness (mm)
1250 x 2050	0.5, 0.75, 1, 1.5, & 2
1250 x 2500	0.5, 0.75, 1, 1.5 & 2

Clear | Anti-reflective option

Processing

- Screen printing
- Vinyl application
- Fabrication
- Routering, milling, sawing
- Guillotining, die cutting
- Laser cutting
- Engraving
- Drilling
- Welding
- Cold curving
- Laminating
- Bonding

For technical and processing information go to brettmartin.com/marpetafs or contact our Technical Department

bsi.

ISO
9001
Quality
Management

Q09125