

## Marlon FSX Longlife, UV-Protected Flat Sheet, 2mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000108-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000108 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 2mm Smooth

7. Declared performance:

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
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Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	B-s1, d0	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	5.56 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 2mm Smooth



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**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5}$ mg/m-h-Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Shatter properties (safe breakability) as:		
- Small hard body impact resistance	Comply	
Flexural / tensile strength, as:		
- Flexural modulus	Mean value $\geq 2,200$ MPa Characteristic value $\geq 2,000$ MPa	
- Tensile strength at yield	Mean value $\geq 60$ MPa Characteristic value $\geq 55$ MPa	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:**



## Marlon FSX Longlife, UV-Protected Flat Sheet, 3mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000113-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000113 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 3mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
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Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	B-s1, d0	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	5.41 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 3mm Smooth



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**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5}$ mg/m-h-Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Shatter properties (safe breakability) as:		
- Small hard body impact resistance	Comply	
Flexural / tensile strength, as:		
- Flexural modulus	Mean value $\geq 2,200$ MPa Characteristic value $\geq 2,000$ MPa	
- Tensile strength at yield	Mean value $\geq 60$ MPa Characteristic value $\geq 55$ MPa	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 3mm Smooth

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<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:** 

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## Marlon FSX Longlife, UV-Protected Flat Sheet, 4mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000116-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000116 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 4mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
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Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	B-s1, d0	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	5.27 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 4mm Smooth



0071

Brett Martin Plastic Sheets

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14

**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{mg/m-h-Pa}$	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Shatter properties (safe breakability) as:		
- Small hard body impact resistance	Comply	
Flexural / tensile strength, as:		
- Flexural modulus	Mean value $\geq 2,200\text{MPa}$ Characteristic value $\geq 2,000\text{MPa}$	
- Tensile strength at yield	Mean value $\geq 60\text{MPa}$ Characteristic value $\geq 55\text{MPa}$	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 4mm Smooth

 <b>0071</b>
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{mg/m}\cdot\text{h}\cdot\text{Pa}$	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:** 

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## Marlon FSX Longlife, UV-Protected Flat Sheet, 5mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000119-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000119 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 5mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
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Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	B-s1, d0	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	5.13 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 5mm Smooth



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**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{ mg/m-h-Pa}$	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Shatter properties (safe breakability) as:		
- Small hard body impact resistance	Comply	
Flexural / tensile strength, as:		
- Flexural modulus	Mean value $\geq 2,200\text{MPa}$ Characteristic value $\geq 2,000\text{MPa}$	
- Tensile strength at yield	Mean value $\geq 60\text{MPa}$ Characteristic value $\geq 55\text{MPa}$	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 5mm Smooth

 <b>0071</b>
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1, d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{mg/m}\cdot\text{h}\cdot\text{Pa}$	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:**



## Marlon FSX Longlife, UV-Protected Flat Sheet, 6mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000120-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000120 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 6mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
--------------	----------------------------	------------------------------

Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	B-s1,d0	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	5 W/m <sup>2</sup> K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 6mm Smooth



0071

Brett Martin Plastic Sheets

24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom.

14

**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1,d0	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{mg/m-h-Pa}$	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Shatter properties (safe breakability) as:		
- Small hard body impact resistance	Comply	
Flexural / tensile strength, as:		
- Flexural modulus	Mean value $\geq 2,200\text{MPa}$ Characteristic value $\geq 2,000\text{MPa}$	
- Tensile strength at yield	Mean value $\geq 60\text{MPa}$ Characteristic value $\geq 55\text{MPa}$	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 6mm Smooth

 <b>0071</b>
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
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Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B-s1,d0	EN 16240
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:** 

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 24 Roughfort Road  
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## Marlon FSX Longlife, UV-Protected Flat Sheet, 8mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000121-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000121 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 8mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b>
Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
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Essential characteristics	Performance	Harmonised technical specification
<b>Mechanical resistance</b>	NPD	EN 16240
<b>Reaction to fire</b>	National fire classifications apply	
<b>External fire performance</b>	E <sub>roof</sub>	
<b>Resistance to fire</b>	NPD	
<b>Water vapour permeability</b>	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
<b>Water / air tightness</b>	Comply	
<b>Release of dangerous substances</b>	NPD	
<b>Dimensional tolerances</b>	Comply	
<b>Small hard body impact resistance</b>	Comply	
<b>Large soft body impact resistance (assembly)</b>	NPD	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Direct airborne sound insulation</b>	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	4.76 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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# Marlon FSX Longlife, UV-Protected Flat Sheet, 8mm Smooth



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Brett Martin Plastic Sheets

24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom.

14

**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
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Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	National fire classifications apply	EN 16240
<b>Water vapour permeability</b>	$3,8 \times 10^{-5}$ mg/m-h-Pa	
<b>Water / air tightness</b>	Comply	
<b>Release of dangerous substances</b>	NPD	
<b>Shatter properties (safe breakability) as:</b>		
- Small hard body impact resistance	Comply	
<b>Flexural / tensile strength, as:</b>		
- Flexural modulus	Mean value $\geq 2,200$ MPa Characteristic value $\geq 2,000$ MPa	
- Tensile strength at yield	Mean value $\geq 60$ MPa Characteristic value $\geq 55$ MPa	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
---------------------	----------------------------	---

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	National fire classifications apply	EN 16240
<b>Water vapour permeability</b>	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
<b>Water / air tightness</b>	Pass	
<b>Release of dangerous substances</b>	NPD	
<b>Shatter properties (safe breakability), as:</b>		
- Small hard body impact resistance	Pass	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Durability, as variation ( after ageing):</b>		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:**



## Marlon FSX Longlife, UV-Protected Flat Sheet, 10mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000122-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000122 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 10mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.1]	Roof coverings for buildings
--------------	----------------------------	------------------------------

Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance	NPD	EN 16240
Reaction to fire	National fire classifications apply	
External fire performance	E <sub>roof</sub>	
Resistance to fire	NPD	
Water vapour permeability	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
Water / air tightness	Comply	
Release of dangerous substances	NPD	
Dimensional tolerances	Comply	
Small hard body impact resistance	Comply	
Large soft body impact resistance (assembly)	NPD	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Direct airborne sound insulation	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	4.55 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

# Marlon FSX Longlife, UV-Protected Flat Sheet, 10mm Smooth



0071

Brett Martin Plastic Sheets

24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom.

14

**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
--------------	----------------------------	------------------------------------

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	National fire classifications apply	EN 16240
<b>Water vapour permeability</b>	$3,8 \times 10^{-5}$ mg/m-h-Pa	
<b>Water / air tightness</b>	Comply	
<b>Release of dangerous substances</b>	NPD	
<b>Shatter properties (safe breakability) as:</b>		
- Small hard body impact resistance	Comply	
<b>Flexural / tensile strength, as:</b>		
- Flexural modulus	Mean value $\geq 2,200$ MPa Characteristic value $\geq 2,000$ MPa	
- Tensile strength at yield	Mean value $\geq 60$ MPa Characteristic value $\geq 55$ MPa	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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## Marlon FSX Longlife, UV-Protected Flat Sheet, 10mm Smooth

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Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.3]	Internal wall and ceiling finishes
--------------	----------------------------	------------------------------------

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	National fire classifications apply	EN 16240
Water vapour permeability	$3,8 \times 10^{-5} \text{ mg/m}\cdot\text{h}\cdot\text{Pa}$	
Water / air tightness	Pass	
Release of dangerous substances	NPD	
Shatter properties (safe breakability), as:		
- Small hard body impact resistance	Pass	
Resistance to fixings	Principles of fixing are available on the Brett Martin website	
Durability, as variation ( after ageing):		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:** 

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## Marlon FSX Longlife, UV-Protected Flat Sheet, 12mm Smooth

### DECLARATION OF PERFORMANCE : (EU) No 305/2011 N° CE-PCFS-000123-01 -EN

- 1. Marlon FSX Longlife**  
PCFS-000123 - unique identification code of the product type
- 2. Intended use or uses of the construction product, in accordance with the relevant harmonised technical specification, as foreseen by the manufacturer :**  
Light transmitting flat solid polycarbonate sheets for internal and external use in roofs, walls and ceilings of all building types.
- 3. Name, registered trade name or registered trade mark and contact address of manufacturer as required pursuant to Article 11(5) : Regulation (EU) 305/2011**  
Brett Martin Plastic Sheets,  
24 Roughfort Road, Newtownabbey, Co. Antrim, BT36 4RB, United Kingdom.
- 4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) ; Regulation (EU) 305/2011 :**  
Not relevant.
- 5. Number of the applicable system of assessment and verification of constancy of performance of the product as set out in Annex V ; Regulation (EU) 305/2011 :**  
System 3.
- 6. In the case of a declaration of performance concerning a construction product covered by a harmonised standard:**  
**Number of harmonised standard :**  
EN16240 : 2013  
**Name and identification number of the notified body :**  
Laboratoire National D'Essais - 0071

## Marlon FSX Longlife, UV-Protected Flat Sheet, 12mm Smooth

**7. Declared performance:**

CE
0071
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	<b>[EN16240:2013 Table ZA1.1]</b>	<b>Roof coverings for buildings</b>
---------------------	-----------------------------------	-------------------------------------

Essential characteristics	Performance	Harmonised technical specification
<b>Mechanical resistance</b>	NPD	EN 16240
<b>Reaction to fire</b>	National fire classifications apply	
<b>External fire performance</b>	E <sub>roof</sub>	
<b>Resistance to fire</b>	NPD	
<b>Water vapour permeability</b>	3,8 x 10 <sup>-5</sup> mg/m·h·Pa	
<b>Water / air tightness</b>	Comply	
<b>Release of dangerous substances</b>	NPD	
<b>Dimensional tolerances</b>	Comply	
<b>Small hard body impact resistance</b>	Comply	
<b>Large soft body impact resistance (assembly)</b>	NPD	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Direct airborne sound insulation</b>	NPD	
<b>Thermal Properties as:</b>		
- Thermal transmittance	4.35 W/m²K	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	(ΔA)	
- of light transmission	(ΔA)	
- of flexural modulus and tensile strength	Cu 1 Ku1	

# Marlon FSX Longlife, UV-Protected Flat Sheet, 12mm Smooth



0071

Brett Martin Plastic Sheets

24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom.

14

**EN16240 : 2013**

Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

Intended use	[EN16240:2013 Table ZA1.2]	External wall and ceiling finishes
--------------	----------------------------	------------------------------------

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	National fire classifications apply	EN 16240
<b>Water vapour permeability</b>	$3,8 \times 10^{-5}$ mg/m-h-Pa	
<b>Water / air tightness</b>	Comply	
<b>Release of dangerous substances</b>	NPD	
<b>Shatter properties (safe breakability) as:</b>		
- Small hard body impact resistance	Comply	
<b>Flexural / tensile strength, as:</b>		
- Flexural modulus	Mean value $\geq 2,200$ MPa Characteristic value $\geq 2,000$ MPa	
- Tensile strength at yield	Mean value $\geq 60$ MPa Characteristic value $\geq 55$ MPa	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Durability, as variation ( after ageing):</b>		
- of yellowness index	( $\Delta A$ )	
- of light transmission	( $\Delta A$ )	
- of flexural modulus and tensile strength	Cu 1 Ku1	

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## Marlon FSX Longlife, UV-Protected Flat Sheet, 12mm Smooth

 <b>0071</b>
Brett Martin Plastic Sheets 24 Roughfort Road, Newtownabbey, Co Antrim, BT36 4RB, United Kingdom. 14
<b>EN16240 : 2013</b> Light transmitting flat solid polycarbonate (PC) sheets for external and internal use in roofs, walls and ceilings – requirements and test methods.

<b>Intended use</b>	[EN16240:2013 Table ZA1.3]	<b>Internal wall and ceiling finishes</b>
---------------------	----------------------------	---

Essential characteristics	Performance	Harmonised technical specification
<b>Reaction to fire</b>	National fire classifications apply	EN 16240
<b>Water vapour permeability</b>	$3,8 \times 10^{-5} \text{ mg/m}\cdot\text{h}\cdot\text{Pa}$	
<b>Water / air tightness</b>	Pass	
<b>Release of dangerous substances</b>	NPD	
<b>Shatter properties (safe breakability), as:</b>		
- Small hard body impact resistance	Pass	
<b>Resistance to fixings</b>	Principles of fixing are available on the Brett Martin website	
<b>Durability, as variation ( after ageing):</b>		
- impact resistance	Comply	

8. The performance of the products identified in points 1 and 2 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by :

**Name:** Michael Johnston  
**Function:** Technical Services Manager  
**Place of Issue:** Brett Martin Plastic Sheets  
 24 Roughfort Road, Newtownabbey, Co.  
 Antrim, BT36 4RB,  
 United Kingdom.

**Date of Issue:** May 2019

**Signature:**

