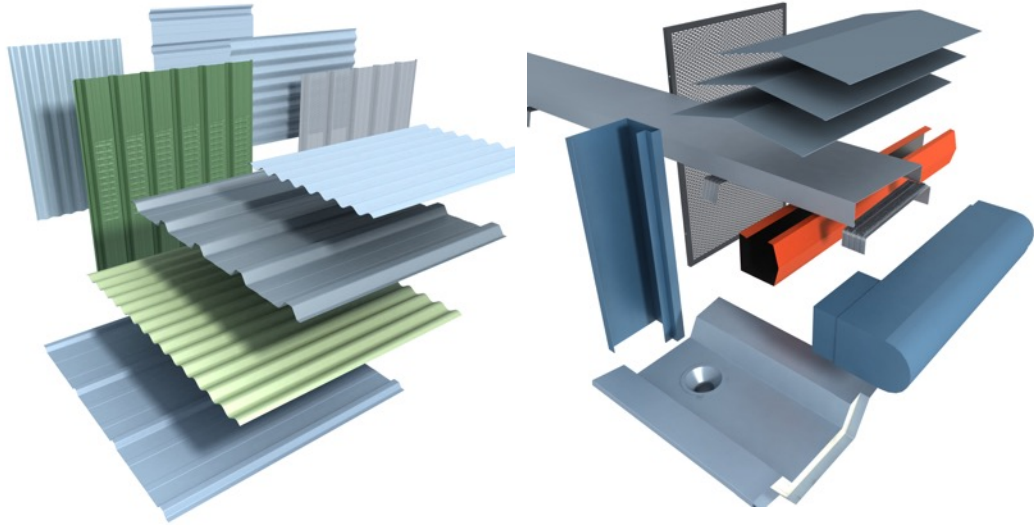


## Trimform Materials

Description	
<b>Application</b>	<p>Trimform Products manufactures from a very wide choice of materials and paint finishes, from plain materials and pre-coated materials to powder post-coated materials.</p> <p>The purpose of this data sheet is to illustrate and discuss the choice and key features of finishes. For more in depth information on the performance and availability of individual materials and finishes, contact Trimform Products.</p> <p>What ever your requirement, speak to Trimform for guidance on the most cost effective design and material for your needs.</p> 
<b>Substrates</b>	<p>Aluminium Galvanised steel Stainless steel Customer free-issue specialist metals (copper, zinc etc)</p>
<b>Finishes</b>	<p>Pre-coated steel</p> <ul style="list-style-type: none"> <li>• Plastisol PVC(P), 200µm</li> <li>• Polyester PE, 25µm</li> <li>• High Build Polyester/Polyurethane HBP/PUR, 50µm</li> <li>• Colorcoat HPS200 Ultra®, 200µm</li> <li>• Agri-Steel®</li> <li>• PVC membrane coated metal</li> <li>• PVdF, 25µm</li> <li>• Bright White Liner PE</li> </ul> <p>Post coated aluminium</p> <ul style="list-style-type: none"> <li>• Polyester Powder Coated (PPC) to the specified RAL colour</li> </ul> <p>Pre-coated aluminium</p> <ul style="list-style-type: none"> <li>• PUR-PA, 28µm</li> <li>• PVdF, 25µm</li> <li>• PE, 22µm</li> </ul>
<b>Plastisol (steel)</b>	<p>Plastisol PVC is available in a range of standard colours, refer to Trimform for the choice. 200µm plastisol PVC normally has a leather grain texture, a grey 10 µm polyester reverse side coating and is renown for resistance to handling and foot traffic.</p> <p>The plastisol finish is flexible and can be formed to OT bends.</p> <p>Plastisol is known as a barrier coating.</p> <p>Plastisol is used for rolled formed roofing and cladding, flashings and Trimline gutters.</p> <p>Typical durability is up to 25 years (defined as protecting against loss of adhesion and corrosion of the</p>




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	<p>substrate). Damage during installation should be repaired, see below Care should be taken to reduce the exposure of edges...use welged edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poultice corrosion. Minimum pitch 4° Steel products can be recycled at the end of their working life.</p>
<b>Colorcoat HPS200 Ultra® (steel)</b>	<p>Colorcoat HPS200 Ultra® is a form of PVC and is available in a range of standard colours, refer to Trimform for the choice. Colorcoat HPS200 Ultra® has a scintilla texture allowing identification, a grey 10 µm polyester reverse side coating and is renowned for resistance to handling and foot traffic. The Colorcoat HPS200 Ultra® finish is flexible and can be formed to OT bends. Colorcoat HPS200 Ultra® is known as a barrier coating and is used for rolled formed roofing and cladding, flashings and Trimline gutters. Typical durability is up to 40 years (defined as protecting against loss of adhesion and corrosion of the substrate). Damage during installation should be repaired, see below Care should be taken to reduce the exposure of edges...use welged edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poultice corrosion. Minimum pitch 1° Steel products can be recycled at the end of their working life.</p>
<b>Polyester (steel)</b>	<p>25µm Double-Coated Polyester is the most economic steel finish available and has reasonable colour retention and corrosion resistance. Polyester is a smooth water based two coat finish consisting of a galvanised steel substrate with a primer coat plus polyester top coat. Typical durability is up to 15 years (defined as protecting against loss of adhesion and corrosion of the substrate). Double-Coated Polyester is not a barrier coating and damage during installation should be repaired, see below. Care should be taken to reduce the exposure of edges...use welged edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poultice corrosion. Minimum pitch 4° Steel products can be recycled at the end of their working life.</p>
<b>High Build Polyester/Polyurethane (steel)</b>	<p>50µm High Build Polyester/Polyurethane has a greater resistance to foot traffic and general wear than standard polyester. It has excellent resistance to UV and chemicals and is used for rolled formed roofing and cladding, flashings and Trimline gutters The finishes are flexible and polyurethane can be formed to OT bends for welts. Typical durability is up to 20 years (defined as protecting against loss of adhesion and corrosion of the substrate). Damage during installation should be repaired, see below Care should be taken to reduce the exposure of edges...use welged edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poultice corrosion. Minimum pitch 4° Steel products can be recycled at the end of their working life.</p>
<b>PVdF (steel)</b>	<p>25µm PVdF steel has excellent colour retention, resistance to UV and chemicals and is used for rolled formed wall cladding, flashings and Trimline gutters. It can be used for roofing but because the paint finish is not a barrier coating like plastisol and HPS200 Ultra®, is more commonly used for walling and flashings. Typical durability is up to 15 years (defined as protecting against loss of adhesion and corrosion of the substrate). Damage during installation should be repaired, see below PVdF finishes are flexible and can be formed to 1T bends. Care should be taken to reduce the exposure of edges...use welged edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poultice corrosion. Minimum pitch 4° Steel products can be recycled at the end of their working life.</p>
<b>Bright White Liner (PE)</b>	<p>15µm Polyester lining enamel is the most common internal liner material. Available as standard in a RAL9010 bright white finish it provides good light reflectance and resistance to corrosion. Typically, lining enamel will last the life of the building in normal, dry, controlled and unpolluted environments. Bright White Liner is not suitable for external applications. Bright White Liner and the 10 µm reverse side coating are not a barrier coatings and damage during installation should be repaired, see below. Steel products can be recycled at the end of their working life.</p>

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<p><b>Agri-Steel® (steel)</b></p>	<p>Agri-Steel® is a 35µm/35µm polyester coating to both sides of the material giving it excellent sulphur dioxide and corrosion resistance and making it suitable for farm livestock buildings which include aggressive, high humidity conditions. Agri-Steel® provides excellent levels of resistance against many chemicals found in agricultural environments.</p> <ul style="list-style-type: none"> <li>• Double sided 35 micron coating for protective performance inside and out</li> <li>• 275g/m<sup>2</sup> zinc coating for greater corrosion resistance</li> <li>• 8 layers of protection</li> <li>• Colour choice - Slate Blue 18B29, Juniper Green 12B29, Vandyke Brown 08B29.</li> <li>• Light grey/ white internal side colour available</li> <li>• Suitable for high-humidity applications including livestock housing</li> <li>• Ideal alternative to fibre cement</li> </ul> <p>Agri-Steel® finishes are flexible and can be formed to 4T bends. Agri-Steel® is CREST Approved (Centre for Research in Engineering Surface Technology) at the Dublin Institute of Technology. Care should be taken to reduce the exposure of edges...use welted edges, minimise end laps, apply clear lacquer to site cut edges. Avoid standing water or debris on the metal since this can lead to poulitce corrosion. Minimum pitch 4° Steel products can be recycled at the end of their working life.</p>
<p><b>PVC membrane coated metal (steel)</b></p>	<p>PVC membrane coated metal consists of a galvanised steel substrate with a factory laminated PVC membrane. For single ply roofing the materials are typically 0.6mm steel with a 0.6mm PVC membrane. The coated metal is available in sheet form and is fabricated to form perimeter details such as drip edges and upstands etc. The PVC membrane surfacing to the metal enables PVC single ply membranes to be hot air welded to pre-formed edge details. For insulated gutters the materials are typically 1.2mm steel with a 1.2mm PVC membrane. The membrane coated steel allows the gutter weathering surface to be effectively seamless giving optimum rainwater performance.</p>
<p><b>Post coated aluminium</b></p>	<p>Polyester powder coating is the protection of fabricated aluminium components using heat cured electrostatically applied polyester powder to any RAL colour. Sections are pre-treated with a multi-stage chromate conversion coating prior to powder coating. PPC is only applicable to finished fabrications, not to roll formed profiles or products requiring further fabrication. Minimum thickness is 40µm, 60µm in aggressive or coastal environments. Reference BS6496. Aluminium products can be recycled at the end of their working life. Aluminium has a high coefficient of expansion and fasteners and junctions should allow for a maximum +/-2mm expansion per m length. Typical durability is up to 30 years with good colour retention to 20 years</p>
<p><b>PUR (aluminium)</b></p>	<p>PUR is aluminium alloy coated on the external face with a primer and a polyamide modified polyurethane paint to a total coating thickness of 28 µm. The standard reverse side coating is a 2 µm lacquer coating. Aluminium is inherently durable and the paint finish is primarily for aesthetics. Except for small quantity limitations, any RAL colour is available. Bend radii are 1T or 2T depending on the aluminium alloy. Aluminium products can be recycled at the end of their working life. Aluminium has a high coefficient of expansion and fasteners and junctions should allow for a maximum +/-2mm expansion per m length. Typical durability is up to 30 years with good colour retention to 20 years.</p>
<p><b>PVdF (aluminium)</b></p>	<p>PVdF (some times referred to as PVF<sub>2</sub>) is aluminium alloy coated on the external face with a primer and a class 1 polyvinylidene fluoride/acrylic paint to a total coating thickness of 25 µm. The standard reverse side coating is a 2 µm lacquer coating. Aluminium is inherently durable and the paint finish is primarily for aesthetics. Except for small quantity limitations, any RAL colour is available. Bend radii are 1T or 2T depending on the aluminium alloy. Aluminium products can be recycled at the end of their working life. Aluminium has a high coefficient of expansion and fasteners and junctions should allow for a maximum +/-2mm expansion per m length.</p>

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	Typical durability is up to 30 years with good colour retention to 20 years.
<b>PE (aluminium)</b>	<p>Polyester is aluminium alloy coated on the external face with a primer and a class 1 polyester paint to a total coating thickness of 22 µm. The standard reverse side coating is a 2 µm lacquer coating.</p> <p>Aluminium is inherently durable and the paint finish is primarily for aesthetics.</p> <p>Except for small quantity limitations, any RAL colour is available.</p> <p>Bend radii are 1.5T or 2T depending on the aluminium alloy.</p> <p>Aluminium products can be recycled at the end of their working life.</p> <p>Aluminium has a high coefficient of expansion and fasteners and junctions should allow for a maximum +/-2mm expansion per m length.</p> <p>Typical durability is up to 30 years with good colour retention to 15 years.</p>
<b>Production methods</b>	<p>Folding</p> <p>Brake press</p> <p>Welding</p> <p>Punching</p> <p>CNC cutting</p> <p>TIG and MIG welding</p> <p>Curving</p>
<b>Installation</b>	
<b>Site work</b>	<p>Where profiles have to be cut on site:</p> <ul style="list-style-type: none"> <li>• Use a powered nibbler, reciprocating saw or circular saw. Do not use an abrasive wheel.</li> <li>• Support the profile along the line of the cut.</li> <li>• Protect the pre-coated finishes of the profile.</li> <li>• Clean any swarf or debris from the pre-coated finish of the profile immediately.</li> </ul> <p>Minor scuffing of the colour coating should not be treated.</p> <p>Deeper scratches which reach the substrate should be repaired with touch-up paint.</p> <p>The touch-up paint should only be applied to the original scratch using a fine paint brush.</p> <p>As touch-up paint will dry to a slightly different colour than the original coating the area which is touched up should be kept as small as possible.</p> <p>Keep foot traffic and following trades traffic to a minimum.</p>
<b>Delivery</b>	<p>Products are protected, banded, shrink wrapped as appropriate.</p> <p>Delivery is by Trimform Products delivery fleet.</p> <p>Inspect packs and record any damage/shortages on delivery paperwork, backed by photos to be sent to Trimform with a report within 48 hours.</p>
<b>References</b>	
<b>Trimform Products</b>	<p>Trimform Products, Harding Way, Somersham Road, St. Ives, Huntingdon, Cambridgeshire, PE27 3WR T 01480 461103, F 01480 461102, E <a href="mailto:info@trimformfabs.co.uk">info@trimformfabs.co.uk</a></p> <p>Trimform Products (a division of Building Solutions (National) Limited). Registered in England and Wales No. 11912299.</p> <p>©Building Solutions (National) Limited.</p> <p>Colorcoat HPS200 Ultra® and Confidex® are trademarks of Tata Steel UK Limited</p> <p>Aquatite® and Colorcoat® are trademarks of Tata Steel UK Limited</p> <p>Armourplan® is a trademark of IKO plc</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>