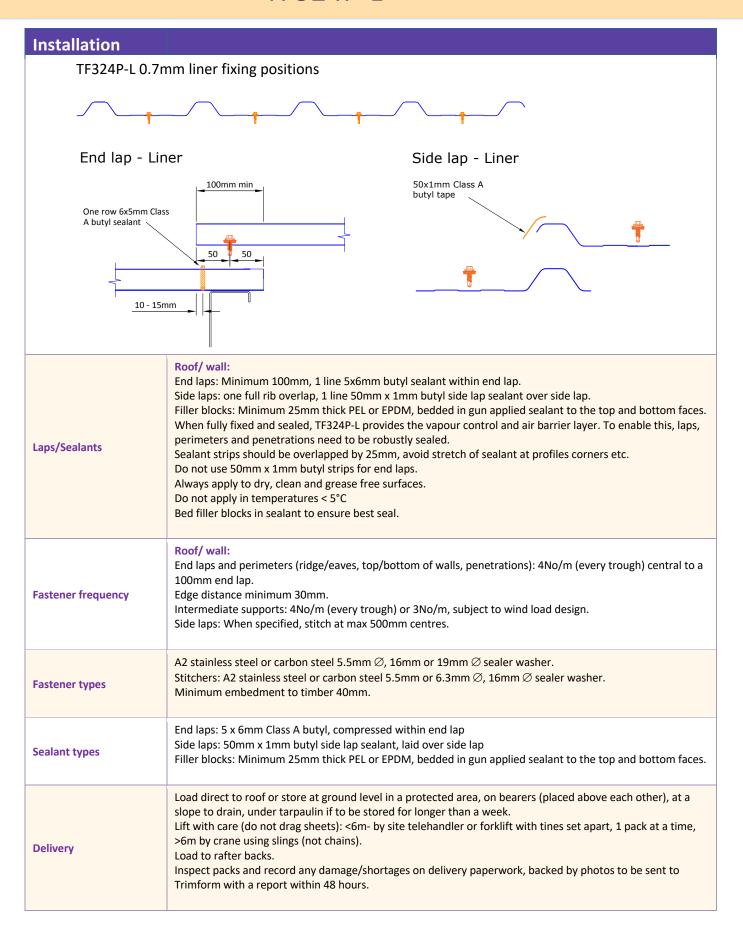
TF324P-L

Description					
Application	A walkable liner profile for use within twin skin metal roofing and walling. When fully fixed and sealed, TF324P-L provides the vapour control and air barrier layer. TF324P-L is non-fragile and walkable, acting as a working platform. For under purlin liner applications refer to Trimform Products.				
Profile depth	32mm				
Profile cover width	1000mm				
Profile pitch	250mm				
Nominal profile weight	0.7mm = 6.49kg/m ²				
Pack weight	Max 2.0t				
Lengths	Minimum length 1.00m Maximum length 10.00m				
Curve options	N/A				
UKCA reference	TF324P-L (Roof profile - Trapezoidal): BS EN 14782:2006				
35	Direction of lay	34 Side lap			
80 168 Colour Face					
Materials		S220GD+AZ100 oright white (notionally RAL9010, for internal use only). uch as 0.5mm steel, aluminium, 200μm PVC or double sided PVC, enquire with			

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The installer must comply with current safety and CDM regulations. Guidance is available at www.mcrma.co.uk, CDM2015 tab and Roof Safety tab.

Side laps should face away from the prevailing wind

Before installation check that the supporting structure is in a fit condition and to an acceptable installation tolerance to receive the roof and wall construction.

Fully fix as work proceeds, TF324P-L is walkable and non-fragile when fixed.

Do not over drive fasteners causing washer dishing.

Where profiles have to be cut on site:

- Use a powered nibbler, reciprocating saw or circular saw. Do not use an abrasive wheel.
- Support the profile along the line of the cut.
- Protect the pre-coated finishes of the profile.
- Clean any swarf or debris from the pre-coated finish of the profile immediately.

Minor scuffing of the colour coating should not be treated.

Deeper scratches which reach the substrate should be repaired with touch-up paint.

The touch-up paint should only be applied to the original scratch using a fine paint brush.

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.

Site work

TF324P-L

Performance The loads shown are kN/m², permissible for the profiles at the spans shown (ie load factors are within the tables, compare with unfactored loads). • The designer must separately check fastener capacity under negative loads (wind uplift/suction). • Minimum bearing width 40mm. • "Single" = spanning over 2 purlins, "double" = 3 purlins, "multi" = 4 or more purlins. • Avoid single spans wherever possible. • In general, for foot traffic, use crawl boards or additional protection on support centres greater than 1.8 m. • Consider crawl boards or additional protection in all cases where the sheets are single spanning. • For spans exceeding 1.8m refer to Trimform. **Structural** BS 5427:16: Appendix C.5.6.4: Partial safety factors for limit state design. Load factors included within the load/span tables: • Variable loads factor 1.5 • Permanent load factor 1.35 • Accidental load factor 1.0 • Serviceability load factor 1.0 Table 10: Deflection: • Roofs – imposed loads- L/200 • Roofs –wind L/90 • Walls – wind L/90

TF324P-L								
	f _u = 220N/mm ²		E = 210kN/mm ²		Broad flange in tension		Broad flange in compression	
Profile properties	t _N mm	Weight kg/m²	Web crushing R _{w,Rd} kN/m		M _{b,Rd} kNm/m	I _{b,Rd} cm ⁴ /m	M _{b,Rd} kNm/m	I _{b,Rd} cm ⁴ /m
	0.7	6.49	8.79		0.925	10.326	0.980	9.811
	Span/m	1.2	1.3	1.4	1.5	1.6	1.7	1.8
0.7mm steel	Single	3.43	2.92	2.52	2.19	1.93	1.71	1.46
Roofapplication	Double	2.35	2.08	1.86	1.67	1.50	1.37	1.24
Positive/imposed downward	Multi	2.80	2.49	2.22	2.00	1.81	1.64	1.50
0.7mm steel	Single	3.63	3.09	2.67	2.32	2.04	1.81	1.61
Roofapplication	Double	2.28	2.02	1.80	1.61	1.45	1.32	1.20
Negative/wind uplift	Multi	2.72	2.41	2.15	1.93	1.75	1.59	1.45

Non Fragility	ACR[M]001:2019 - Test For Non-Fragility of Large Element Roofing Assemblies [sixth edition] 0.7mm: Class B when screw fixed as described in the Installation section
Durability	Liner grade polyester painted steel will last the lifetime of the building, excluding aggressive or high humidity internal environments. TF324P-L liner is not suitable for external exposure.
Fire properties	Polyester coated (PE) steel: A1 (CWFT Commission Decision 2010/737/EU table 1)

TF324P-L

COMPOSITION/INFORMATION ON INGREDIENTS

Safety data

Single skin coated steel profiled sheets products used for roof and wall cladding industrial and commercial buildings. Refer to Trimform and industry standard installation guidance for use. To be used in accordance with industry standard practices, Building Regulations and site RAMS. If any other use is to be considered, please contact Trimform.

HAZARDS

- 1. Under normal conditions of storage and when fixed, the products do not constitute a hazard.
- 2. During the fixing operation or whilst handling, laceration of the skin is possible on the edges of the sections, and if oil is present on the material skin contamination may occur.
- 3. When breaking open strapping which is used to secure bundles of sections, there is a risk of skin or eye injury.
- 4. Some components are heavy and injury may result from incorrect lifting or handling.
- 5. Cutting the product may cause flying swarf, which could injure skin, particularly eyes.
- 6. When subjected to elevated temperatures, e.g. during welding or flame cutting, fumes containing oxides of iron and zinc may be produced, which can cause metal fume fever if inhaled. This is a short lasting condition with symptoms similar to influenza.
- If involved in a fire, any plastic components could degrade and generate smoke and fumes, which could be toxic if inhaled.

FIRST AID MEASURES

- Inhalation: N/A
- Skin: Wash with soap and water
- Eyes: If dust makes contact with eyes, rinse with clean water
- Ingestion: N/A
- Other: Seek medical attention if any symptoms persist

FIRE-FIGHTING MEASURES

Packaging, rubber elements and protective coatings may be combustible and emit hazardous fumes.

ACCIDENTAL RELEASE MEASURES

Product discarded in an unaltered form is classified as a non-hazardous waste.

HANDLING/STORAGE

- 1. Store in a location free from ignition hazard, such as open flames, cutting and welding torches, high surface temperatures, electric heaters and other forms of direct radiant heat.
- 2. Ensure stability of stack and provide adequate aisle space for access between stacks.
- 3. Store packs off the ground and on a slope so that should rain water penetrate the wrapping, water will drain away.
- Support the packs evenly with bearers spaced at 2m. Bearers should always be placed one directly above another.
- 5. During the fixing operation or whilst handling, laceration of the skin is possible on the edge of the sheet.
- 6. Product is supplied in heavy bundles and injury may result from incorrect lifting or handling.
- 7. Cutting the product may cause flying swarf, which could injure skin, particularly eyes. Cutting can also

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produce dust, which can cause irritation if inhaled.

EXPOSURE CONTROL/PERSONAL PROTECTION

- Protective clothing, particularly gloves, should be worn to avoid skin laceration.
- Eye and ear protection should be used when cutting.
- Do not use flame cutting equipment, blow lamps, or any high temperature equipment or process near the panels.
- In a fire, breathing apparatus should be worn.

PHYSICAL AND CHEMICAL PROPERTIES

Coated steel sheets rolled to various profiles. Steel is hot-dip galvanised or Aluzinc coated.

STABILITY AND REACTIVITY

Stable and un-reactive under normal conditions.

TOXICOLOGICAL INFORMATION

N/A

ECOLOGICAL INFORMATION

No known adverse environmental effects.

DISPOSAL INFORMATION

Dispose at an authorised metal recycling facility in accordance with the Waste Management Licensing Regulations.

Observe usual safety precautions with polythene bags, wrapping and packaging. Waste product should be disposed of in accordance with local laws and regulations. Clean, undamaged product may be re-used.

TRANSPORT INFORMATION

Not classed as hazardous for transportation.

Ensure security of load securing straps with edge protectors should be used. It is recommended that mechanical lifting equipment is used when moving bulk quantities

REGULATORY INFORMATION

N/A



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References					
Reference Standards	BS EN 508-1:2021 BS EN 14782:2006 BS EN 10346: 2015 BS 5427:2016+A1:2017 MCRMA GD 20 Guidance document on serviceability states and deflection criteria	BS EN 1991-1-3:2003+A1:2015 BS EN 13501-1:2018 BSEN13501-5:2016 ACR[M]001-2019 [Sixth edition] MCRMA Guidance Documents and Design Guides (www.mcrma.co.uk)			
Trimform Products	Trimform Products, Harding Way, Somersham Road, St. Ives, Huntingdon, Cambridgeshire, PE27 3WR T 01480 461103, F 01480 461102, E info@trimformfabs.co.uk Trimform Products (a division of Building Solutions (National) Limited). Registered in England and Wales No. 11912299. © Building Solutions (National) Limited. Colorcoat HPS200 Ultra® and Confidex® are trademarks of Tata Steel UK Limited				