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PRODUCT DATA SHEET: STANDING SEAM

Product Description

The Seamless Aluminium Standing Seam System is a high-performance architectural roofing and façade solution designed for residential, commercial and industrial applications.

Manufactured from marine-grade aluminium, the system combines clean contemporary aesthetics with outstanding durability, weather resistance and design flexibility. Suitable for both roof and wall applications, standing seam panels are mechanically fixed using a concealed clip system that allows for thermal movement while maintaining a weather-tight building envelope.

All panels, trims and accessories are manufactured in-house at Seamless Aluminium Group's production facility in Co. Donegal, ensuring complete control over quality, consistency and bespoke fabrication requirements.

Applications

Residential roofing
Commercial roofing
Industrial buildings
Vertical façades
Feature walls
Roof-to-wall transitions
New-build projects
Refurbishment projects

Suitable for roof pitches from 3°degree subject to project design and detailing.

Key Features & Benefits

Concealed fixing system.
Lightweight aluminium construction.
Suitable for roof and façade applications.
Suitable for pitches as low as 3° degree.
Long panel lengths available.
Accommodates thermal expansion and contraction.
Excellent resistance to corrosion.
Suitable for exposed, coastal marine environments.
Several times lighter than traditional roof coverings.
Low maintenance requirements.
Bespoke trims and fabrications available.

Dedicated technical support available throughout design and construction.

Material Technical Data

Property	Specification
Material	Aluminium Coil
Alloy	EN AW-1050A H14
Standards	EN 573-3, EN 485-2, EN 1396
Coating Standard	EN 12206-1
Supply Source	Registered Aluminium Stockist

Panel Dimensions

Property	Specification
Cover Width	Approx. 306 mm
Seam Height	25 mm
Thickness	0.67 mm nominal
Profile Options	Single Lock & Double Lock
Maximum Length	Custom Lengths

Performance

Property	Performance
Minimum Roof Pitch	3° Degree
Fire Classification	A1 to EN 13501-1
Thermal Expansion Coefficient	23×10^{-6} m/m°C
Melting Point	Approx. 660°C
Rural/Suburban Design Life	40+ Years
Marine/Industrial Design Life	25+ Years

System Configuration

The Standing Seam System is mechanically fixed using concealed aluminium clips.
Available panel profiles include:

Type A - Standard panel
Type B - Double over panel
Type C - Double under panel
Type D - Single over panel
Type E - Signle under panel

Full panel profile details are available at the end of the document.

Clip Fixing Specification

Zone A – Perimeter Panels
The first two panels from all roof and wall edges shall be secured at maximum 200 mm clip centres

Zone B – Edge Reinforcement
The first three clips from ridge, eaves or panel termination points shall be fixed at maximum 200 mm centres.

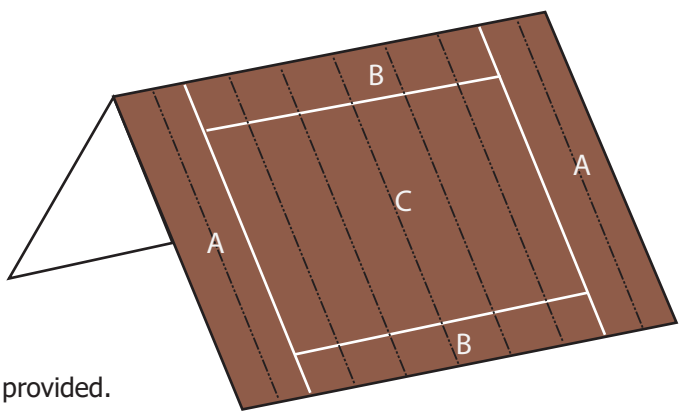
Zone C – Main Field Area
Maximum spacing on a Roofing is 450mm, this is reduced to 350mm for Façade/Walling.
Clip spacing may require adjustment based on wind load calculations and project-specific engineering requirement.

Fixed & Sliding Clips

Fixed clips control thermal movement and typically shall be positioned:

Roofing
At or as close as practical to the ridge position.

Façades
At or near the base of the wall.



All clips must be installed with the stainless steel screws provided.

A maximum of five fixed clips should be installed per panel. All remaining clips shall be sliding clips to accommodate thermal expansion and contraction.

Approved Membranes

Approved membranes include:

Direct Contact Layer:
DuPont Tyvek® Metal

Secondary Waterproofing Layer:
Danosa Self-Adhesive SBS Elastomeric Membrane
Danosa membrane must not be installed in direct contact with aluminium panels.

If above membranes can not be sourced please ensure membranes used carry the same spec.

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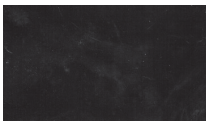
Colour Options

Standard RAL Colours

RAL 9016
Traffic White


RAL 9005
Jet Black

RAL 7015
Slate Grey

RAL 9001
Cream

RAL 7037
Grey

RAL 7016
Anthracite Grey

Seamless
Brown

RAL 6009
Green

Colour Options

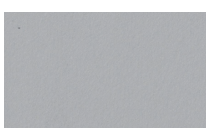
SaluZink™ Range

Zink 7016

Zink 7005

Zink Black

Zink 7031


Zink 7030

Graphite Black

Compatibility

Direct contact between aluminium and dissimilar metals should be avoided.
Aluminium should not be installed in direct contact with:

- Copper
- Cementitious materials
- Lime-based products
- Untreated dissimilar metals

Suitable separation materials should be used to prevent electrolytic corrosion.

Complete Envelope System

The Standing Seam System forms part of a complete aluminium building envelope package including:

- Standing Seam Panels
- Fascia and Soffit Systems
- Copings
- Flashings
- Gutters and Downpipes
- Custom Fabricated Trims
- Bespoke Architectural Fabrications

Sustainability

Aluminium is a sustainable construction material that is infinitely recyclable and retains its material properties throughout repeated recycling cycles.
Seamless Aluminium Group supports sustainable manufacturing through:

ISO 14001 Environmental Management System
On-site solar energy generation
Waste reduction initiatives
Responsible sourcing practices
Long-life product design

Certification

Manufactured under:

ISO 9001:2015 – Quality Management
ISO 14001:2015 – Environmental Management
ISO 45001:2018 – Occupational Health & Safety

Technical Support

Technical design assistance, specification guidance, CAD details and project support are available from Seamless Aluminium Group.

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Cleaning & Maintenance

Seamless Aluminium Standing Seam systems are designed to provide a long service life with minimal maintenance requirements. Aluminium offers excellent resistance to corrosion and weathering; however, periodic inspection and cleaning are essential to maintain appearance, drainage performance and coating durability throughout the life of the building.

Routine Inspections

A visual inspection should be carried out at least annually and after severe weather events.
Inspection should include:

- Standing seam panels.
- Ridge and gable details.
- Flashings and junctions.
- Roof penetrations.
- Gutters and rainwater outlets.
- Fixings and clips where accessible.
- Sealants and weathering components.

Any issues identified should be rectified promptly to prevent unnecessary deterioration or water ingress.

Maintenance Records

A written maintenance log should be maintained for the life of the installation.

Records should include:

- Date of inspection.
- Cleaning activities completed.
- Repairs undertaken.
- Areas inspected.
- Inspector or contractor details.

Maintenance

To maximise lifespan and appearance:

Remove debris regularly.
Clear leaves and standing water.
Clean coated surfaces using mild detergent and clean water.
Inspect flashings and fixings periodically.
Inspect after severe weather events.

Removal of Debris

Organic and wind-borne debris should be removed regularly from:

- Valleys.
- Gutters.
- Eaves.
- Roof penetrations.
- Behind parapets.
- Roof-to-wall junctions.

Build-up of leaves, moss, dirt or standing water may restrict drainage and can lead to staining or premature degradation of the coating system.

Regular Cleaning

To maintain appearance and coating performance, all exposed surfaces should be washed periodically using clean water and a mild detergent solution.
Cleaning should be undertaken using:

- Soft cloths.
- Non-abrasive sponges.
- Natural bristle brushes.
- Low-pressure water rinsing.

Following cleaning, all surfaces should be thoroughly rinsed with clean water to remove any residual cleaning agents.

Recommended cleaning frequency:

Environment	Cleaning Frequency
Normal	12 Months
Severe	6 Months
Hazardous / Coastal	3 Months

Maintenance records should be retained to support warranty requirements.

Contact Information

Ireland

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Web: www.seamlessaluminium.co.uk

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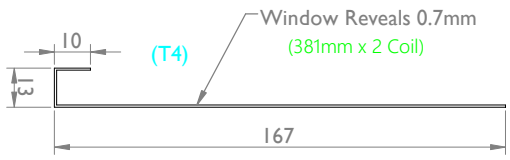
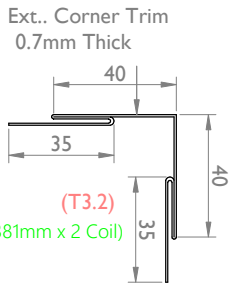
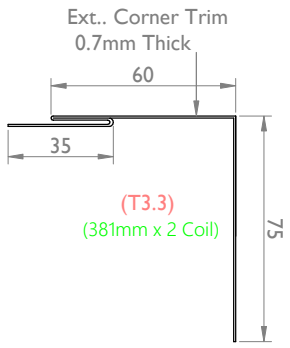
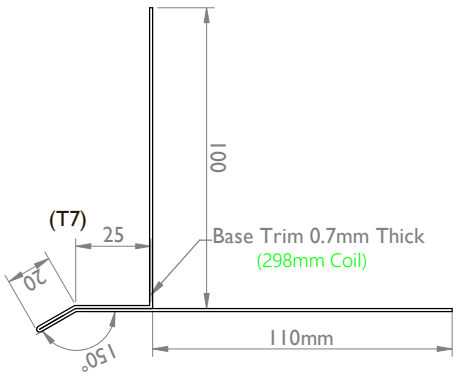
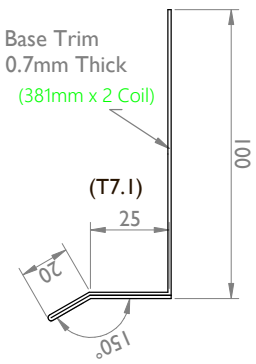
Trims and Panels

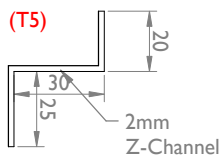


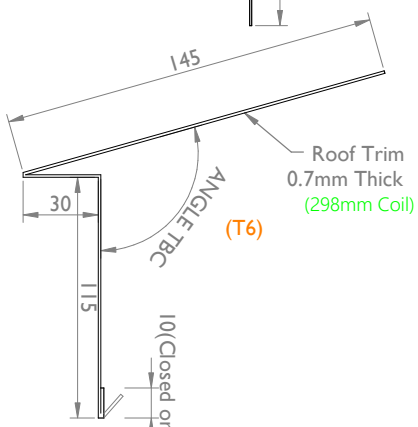


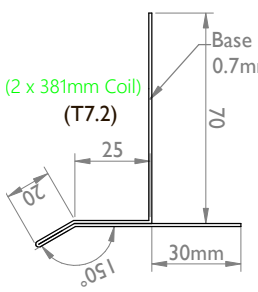


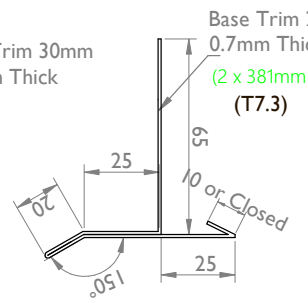


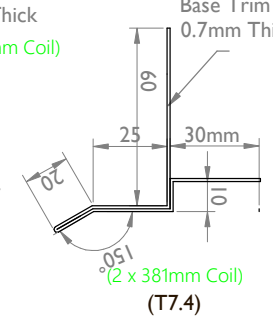


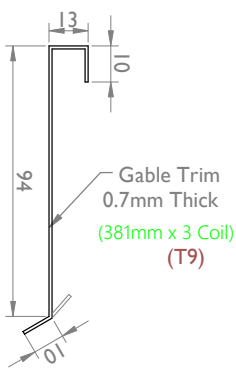


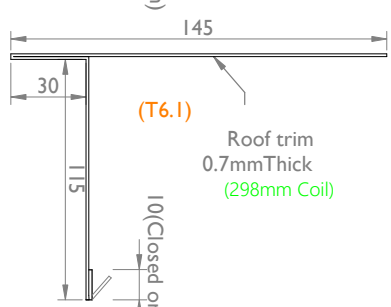


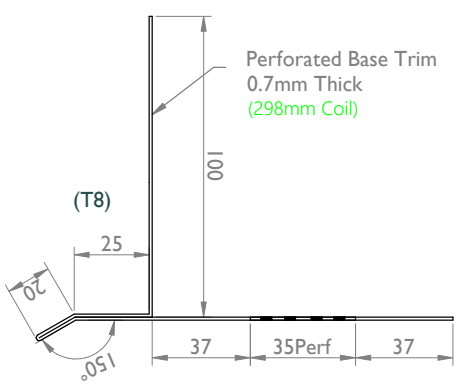


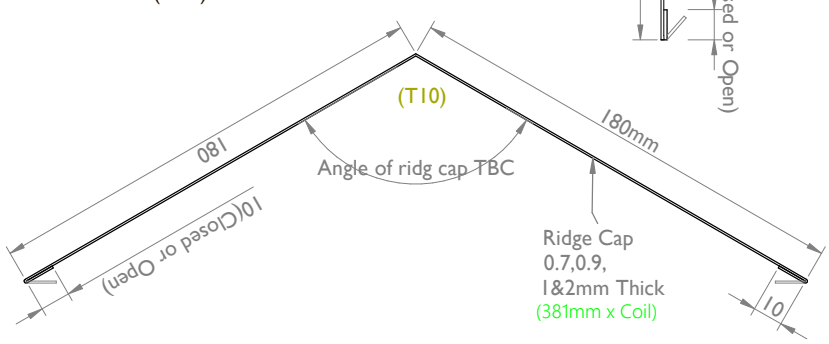


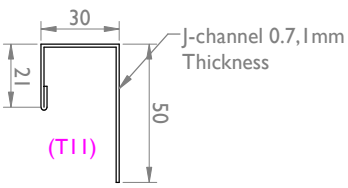


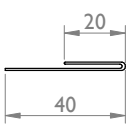


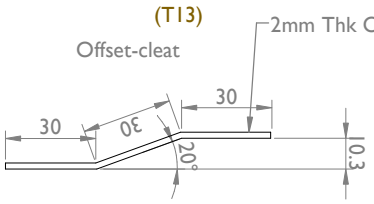




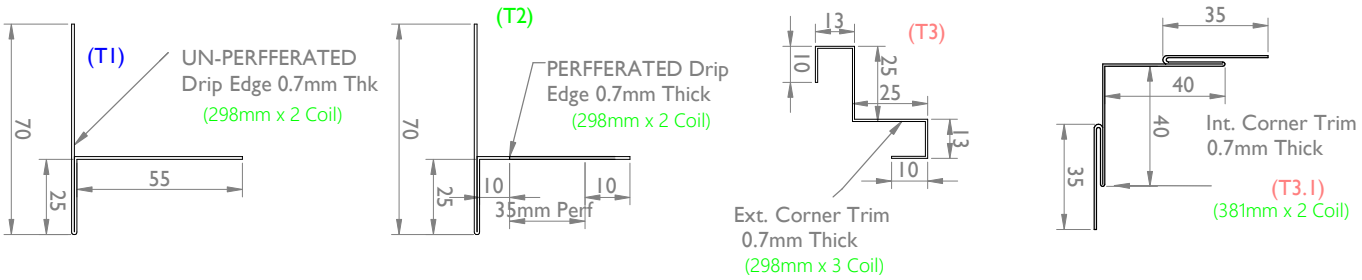


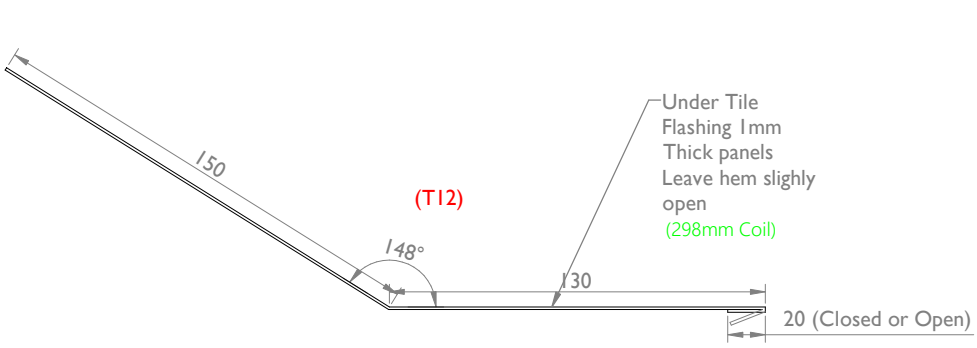


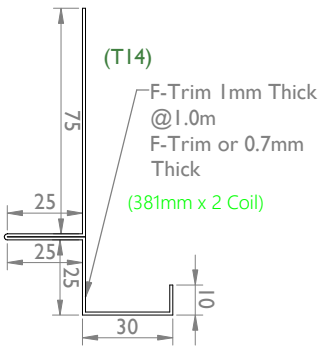
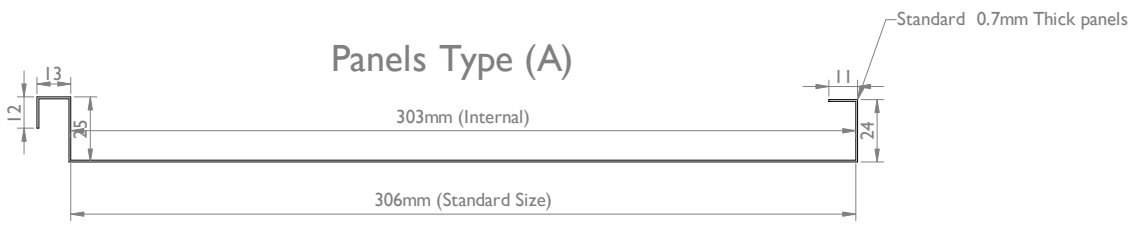
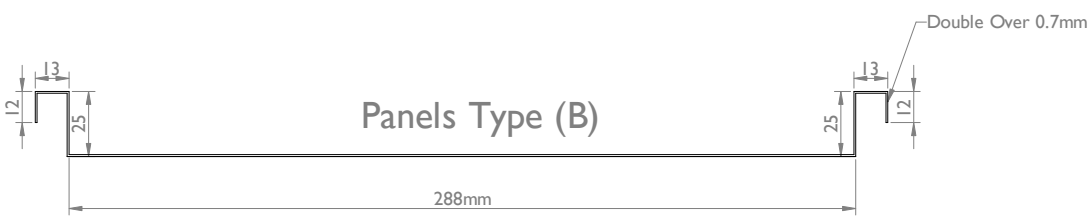
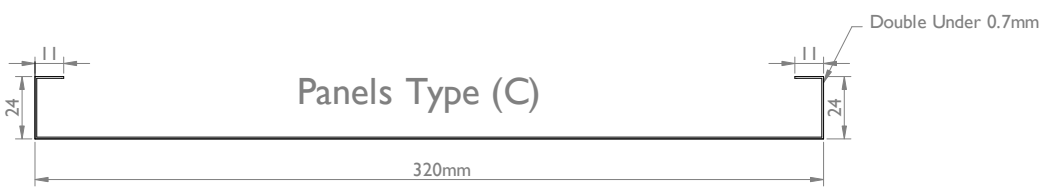
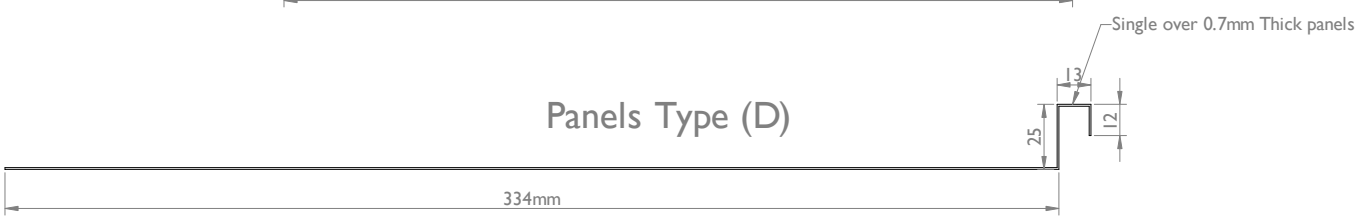
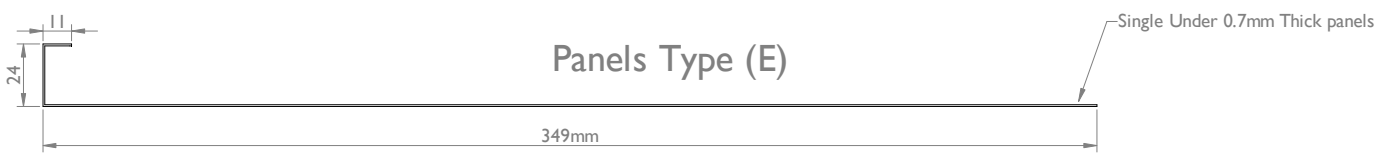




Trims and Panels



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