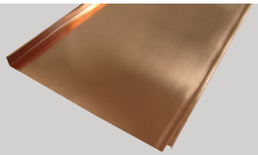
EUROSTYLE™

epic™ spanlok™ eurolok™ series



TECHNICAL SECTION

Design Consideration

The designer should take into account the following factors when specifying one of the Eurostyle™ products:

- Profile and pan width
- Installed on solid substrate or attached to purlins and girts
- Site environmental conditions
- Material type and finish
- Roof pitch
- Sheet lengths
- Standard or seamed lap
- Wind loadings and spanning capabilities
- Snow design
- Swaged to reduce "canning" or alternative non swaged profile
- Reference to Eurostyle™ technical drawings and Profile Technical Summaries

Most of this information is readily available from our website, technical literature, or NZ Metal Roof and Wall Cladding Code of Practice.

Swaging technology

Advanced Eurostyle™ manufacturing technology minimises the incidence of surface undulations commonly associated with wide pan profiles, however, with some metals there is virtually no escaping minor imperfections. To further assist in removing surface deformation, Eurostyle™ does provide optional swaging options. For **spanlok™** and **eurolok™**, a clip relief swage close to the sides of the pan creates aesthetically pleasing effects with the contrasting shade and light. Contact Roofing Industries staff for specific advice.

Minimum roof pitch

The minimum roof pitch for **spanlok™** and **eurolok™** is 3 degrees. Minimum pitch is governed by profile type, sheet length, cross welt transverse joins and snow loadings. For further and more detailed information, refer to the Profile Technical Summary available from our website.

The minimum roof pitch for **epic™** roofing type profile varies between 3 and 7 degrees dependant on profile type, sheet length, cross welt transverse joins and snow loadings. For further and more detailed information, refer to the Profile Technical Summary available from our website.

With the exception of **epic™** double standing seam, Eurostyle™ products are available in the following substrates and surface finishes subject to minimum order and material availability.

- Copper
- Zincalume®
- Aluminium
- Stainless steel
- Natural Zinc
- Terne Coated
- Colorcote® ZinaCore™, MagnaFlow™, AlumiGard™
- Colorsteel® Endura®, Maxx®
- Euramax

Durability

Selection of the correct grade of material and appropriate surface coating is imperative to ensure any of the Eurostyle™ range of products will perform satisfactorily in the environment to be installed and meets the requirements of the NZ Building Code. Environmental categories and materials literature is available from our website.

Wind loadings

Eurostyle™ products have been extensively tested in accordance with the NZMRM test procedure on the industry test rig utilising variations in fastening systems and purlin/girt spacings. Wind Load Span Design Graphs to determine appropriate spanning are available from the Profile Technical Summary Literature available on our website.

Curving

Eurostyle™ **epic™** Angle Seam and Roll Seam profiles can be either drape, concave or convex curved to varying radii with this dependant on curve type, plus material and thickness used as the profile substrate. Further information is available by contacting Roofing Industries.

Underlay

An absorbent breather type roof/wall underlay complying with NZS2295 is recommended under all Eurostyle™ profiles.

Ventilation

Eurostyle™ products like any metal roof must have provisions for ventilation of the roof space to allow condensation to dissipate.

Ventilation should be provided at the eaves and ridge. Where a plywood substrate is used a ventilation space of 40mm minimum is recommended below the plywood with air flow to eaves and ridges.

It is strongly recommended that an underlayment drainage mat be used which provides a thin layer of scrambled nylon between the plywood and Eurostyle™ profiles allowing ventilation to occur.

Ventilation is particularly important with skillion type roofs.

Roof Expansion Provisions

Refer to the Eurostyle™ Profile Technical Summaries available from our website.

Accessories

A full range of matching accessories is available, including ridging, flashings fasteners, underlays, drainage matting, insulation and EZI-FLO™ rainwater systems.

IMPORTANT: *Surface undulation "Canning"*

Canning is defined as a perceived waviness across the flat area of (in particular, but not limited to) wider metal panels. It is a naturally occurring phenomenon and can be more discernible under shallow cross lighting, variation in light source, temperature and thermal changes. Canning is an aesthetic issue and not a structural problem or defect. The property owner, builder, specifier should be aware that these undulations do not affect performance.

Aesthetic undulations can be further minimised with the use of low gloss prepainted surfaces, addition of swages and narrower pan widths.

Further guidelines should be consulted in the product's profile Technical summaries.

Ordering

Roofing Industries staff can provide technical assistance to ensure accurate ordering of roofing, cladding and accessories thereby avoiding costly errors. Eurostyle™ products can be manufactured on site or delivered from the factory direct to site subject to minimum order quantity and transportation restrictions. NB. Onsite manufacture requires specific quotation.

Spouting and Guttering

To avoid exposing the end of the roof sheeting at the gutter line it is recommended that consideration be given to the use of a higher face spouting or gutter system, particularly at lower roof pitches.

Fixings and fasteners

All fixings and fasteners are to be of an approved type, compatible with all materials, the environment and meeting the requirements of the NZ Building Code. It is imperative that installation is to be in accordance with the NZ Metal Roof and Wall Cladding Code of Practice and Profile Technical Summaries.

Handling and storage

Due to both profile shape and the width of pans, all Eurostyle™ profiles require additional care during delivery, onsite storage and during roof loading.

IMPORTANT! On delivery, read the pack label and visually inspect the sheets for damage.

- Store profiles and accessories on evenly spaced and supportive dunnage, clear of the ground and under cover.
- Long lengths of roofing should be lifted onto the roof using an approved load spreading beam.
- If protected with strippable plastic film, keep under cover and remove as the product is being installed.

Installation

Eurostyle™ products require specific installation skills with products only installed by fully trained and competent professionals. Prior to commencing the project and to avoid voiding any warranty, refer to Roofing Industries Profile Technical Summaries and supporting literature available from our website.

Maintenance

Maintenance Guides are available and should be consulted in order that warranty conditions are fulfilled.

Warranties

Warranties meet or exceed the statutory requirements of the NZ Building Code, are available on request and reflect our New Zealand owned and operated company, test facilities and local climatic conditions. Available at www.roof.co.nz

Further technical advice

During the design process involving Eurostyle™ products, it is of paramount importance that building designers should refer to further detailed technical information contained in the Profile Technical Summaries and supporting literature available from our website.

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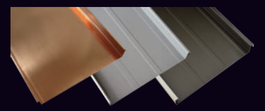
Roofing Industries Technical Helpline 0800 844 822 **WWW.ROOF.CO.NZ**

EUROSTYLE™

Elegant | Functional | Innovative

epic™ spanlok™ eurolok™ series



Roofing Industries roof.co.nz

www.roof.co.nz

EUROSTYLE

epic™ series

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spanlok™ series

EUROSTYLE

eurolok™ series

The **epic™** series of profiles remain the backbone of Roofing Industries traditional tray type products, are well proven and remain at the forefront of the residential and commercial construction industry. Normally installed over a solid ply substrate, **epic™** profiles form an integral part of elite roofing, cladding, walling and panelling systems with variation in profile choice most certainly stretching architectural boundaries by offering elegance, design flexibility, sustainability all supported by extensive material choice.

Applications

- Residential roofing and cladding
- Commercial roofing and cladding
- Heritage buildings
- Public buildings
- Sporting arenas
- Churches and art galleries
- Alpine snowfall areas
- Internal and external wall panelling

Materials

epic™ series profiles are manufactured using a selection of metal substrates and aesthetically pleasing surface finishes meeting many challenging environmental, climatic, sustainability or design considerations.

Manufacturing capability

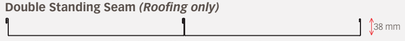
epic™ is primarily manufactured cut to length in the North Island however, it can be freighted to destinations nationally. Alternatively, each of our Branches can manufacture and supply product direct from their locations at maximum 8.2 metre lengths. Onsite manufacturing is also available subject to minimum order quantity and specific quotation.

Profiles

Angle Seam

Displays a wider effect of the seam providing a striking appearance in both roofing and cladding situations.

Double Standing Seam *(Roofing only)*



A traditional tray profile which offers superior performance in high wind, rainfall and snow. Available in Copper, Natural Zinc and Aluminium.

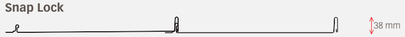
Roll Seam

A seamed cap profile that offers variable shading in any roof or wall cladding application, yet still providing minimalistic lines.

Roll Cap

Displays the boldest effect of any of the Eurostyle™ profiles with highly defined longitudinal lines providing light and shade variations.

Snap Lock



Provides a similar but slightly bolder look to Double Standing Seam, however is secret screw fixed and clipped together rather than seamed.

Wall & Soffit Panel

An interlocking panel available as butt join or variable recessed joint up to 25mm suitable for soffits and wall panelling offering a striking appearance.

Standard pan widths (nominal)

Pan width is both profile and project dependant and can range from 195mm to 515mm. For further information please visit www.roof.co.nz

Swages

Swages can be added to each profile thereby altering aesthetics, increasing strength and to assist with "canning".

Purlin and girt spacing

Recommended spacings are available from the profile technical summary on our website, www.roof.co.nz

spanlok™ - A revolutionary and recent innovative range of standing seam wide tray roofing and cladding profiles, which have been specifically designed to attach directly to purlins and girts without the need for solid plywood support thereby greatly reducing construction costs.

Encompassing a higher 45mm standing seam rib, **spanlok™** can also be supplied as "Roll Cap" profile using a proprietary fixing cap. **spanlok™** is available in varying tray widths and allows building designers flexibility and project design individuality.

Applications

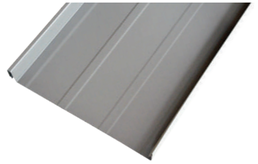
- Residential roofing and cladding
- Commercial roofing and cladding
- Heritage buildings
- Public buildings
- Sporting arenas
- Churches and art galleries
- Alpine snowfall areas
- Internal walling

Materials

spanlok™ is manufactured using a selection of metal substrates and aesthetically pleasing surface finishes thereby satisfying challenging environmental, climatic, sustainability or design considerations.

Manufacturing capability

spanlok™ is generally factory-manufactured in Hamilton and Cromwell, is supplied cut to any length and freighted to site subject to transportation limitations. Onsite manufacturing utilising portable machinery is also available subject to minimum order quantity and specific quotation.



Profiles

Standing Seam

Roll Cap

Standard pan widths (nominal)

.55BMT plain and prepainted steel	.90 Aluminium and AlumiGuard	.70 Copper
365mm	–	335mm
450mm	445mm	–

NB. For variations other than standard sizes and materials displayed, contact Roofing Industries or visit www.roof.co.nz

Purlin and girt spacing

Recommended purlin and girt spacings are contained in the table below. and **spanlok™** Profile Technical Summary Reference should also be made to Wind Loading Section as this may limit purlin and girt spacing.

	Roof	Walls
Intermediate Span	600mm	900mm
End Span	600mm	600mm

eurolok™ – An innovative standing seam roofing and cladding profile within the popular and comprehensive Eurostyle™ product range and is the first tray profile of its type offering an extended 50mm rib height along with accentuated wider ribs exhibiting stunning shadow lines. **eurolok™** is also particularly suitable where a narrower "batten cap" vista is desired without the need for additional accessories. Simply fixed directly to purlins and girts, the higher rib can also be onsite formed as an angled seam feature making this ideal for use during intense rainfall. Available in varying tray widths, when coupled with inherent and innovative characteristics, **eurolok™** will most certainly provide strong and aesthetically pleasing options for building designers.

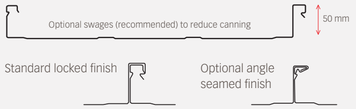
Applications

- Residential roofing and cladding
- Commercial roofing and cladding
- Heritage buildings
- Public buildings
- Sporting arenas
- Churches and art galleries
- Alpine snowfall areas

Materials

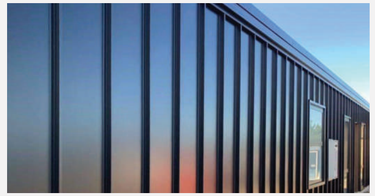
eurolok™ is manufactured using a selection of metal substrates and can be supplied in aesthetically pleasing surface finishes meeting many challenging environmental, climatic, sustainability or design considerations.

Profiles



Manufacturing capability

eurolok™ is manufactured in the South Island and is supplied cut to length. Onsite manufacturing is also available subject to minimum order quantity and specific quotation.



Standard pan widths (nominal)

.55BMT plain and prepainted steel	.90 Aluminium and AlumiGard™	.70 Copper
365mm	–	335mm
450mm	445mm	450mm

NB. For displayed variations other than standard sizes and materials displayed, contact Roofing Industries or visit www.roof.co.nz

Purlin and girt spacing

Recommended purlin and girt spacings are contained in the table below. Reference should also be made to the Wind Loading Section and Profile Technical Summary as this may limit purlin and girt spacing.

	Roof	Walls
Intermediate Span	600mm	900mm
End Span	600mm	600mm

It is of utmost importance to refer to the technical section in this literature, visit our website at **www.roof.co.nz** or call the Technical Helpline on **0800 844 822**