ZIN® BATTENS

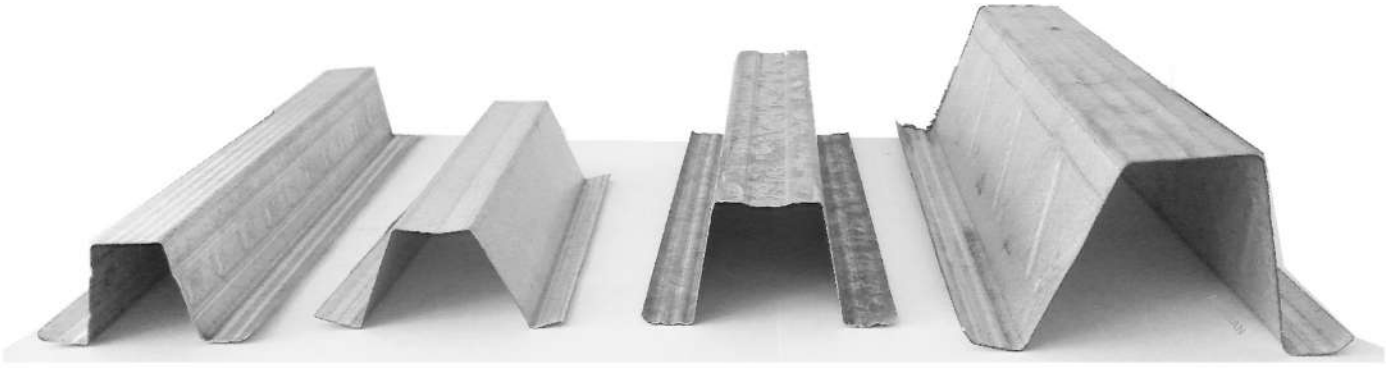
LIGHTWEIGHT STRUCTURAL SOLUTION

PERFECT STEEL MAKES PERFECT STRUCTURE

ZIN ROOF BATTENS have been used in the building and construction industry for many decades in commercial and residential applications. Applications include sheds, garages, carports, and as ceiling and roof battens as well as for racking, fencing and handyman projects. Our roof battens selection is available for your next job.

BENEFITS

- Provide maximise strength and steady spans.
- Accurately roll-formed to ensure dimensional precision.
- Economical substitute to timber battens.
- Resistance to termite attack.
- Highly cost effective.
- User friendly installation method.
- Cutting to length available.
- Proven durability and worthiness



01 SPECIFICATIONS

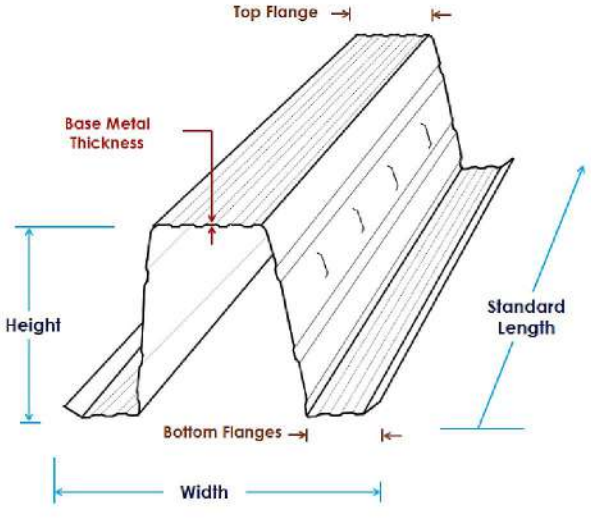
Zin Battens are produced from **Hi-Tensile** material with exterior protection coating **Z220** and compliance with **Japanese Industrial Standards 3302**.

BATTEN PROFILES

ZB35			
Steel Grade	Yield Strength	Zinc Coating Mass	Base Metal Thickness *(mm)*
JIS3302	SGCH G550MPa	Z220g/m²	0.50/±2

Section Properties	Size	Tolerance
Height	35	±1
Width	70	±1
Standard Length	6096	±5
Top Flange	20	±2
Bottom Flanges	15	±1

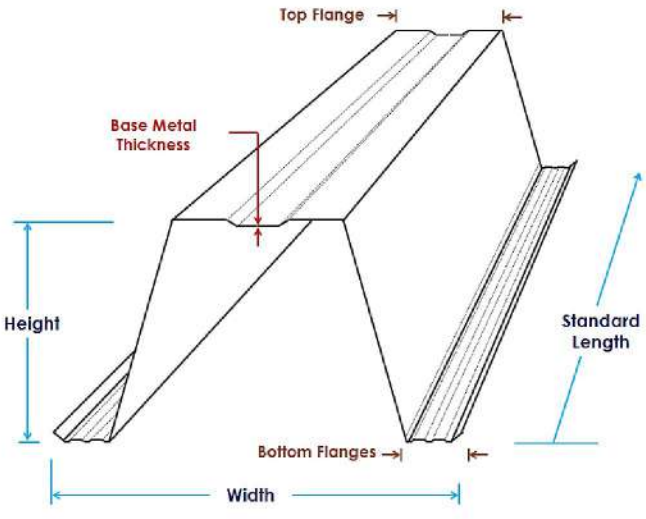
Roofing	Maximum (mm)
Spanning	1200
Spacing (Metal)	1000
Spacing (Tile)	330



ZB40			
Steel Grade	Yield Strength	Zinc Coating Mass	Base Metal Thickness *(mm)*
JIS3302	SGCH G550MPa	Z220g/m²	0.50/±2

Section Properties	Size (mm) Tolerance	
Height	40	±1
Width	80	±1
Standard Length	6096	±5
Top Flange	33	±2
Bottom Flanges	18	±1

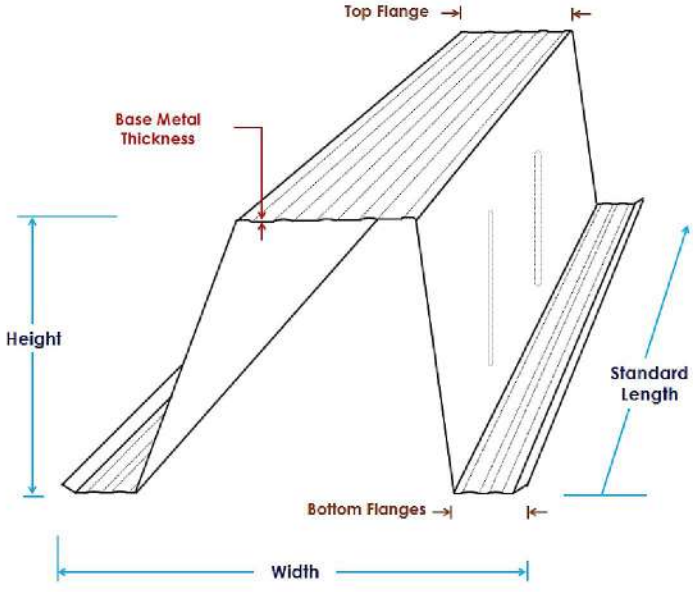
Roofing	Maximum (mm)
Spanning	1100
Spacing (Metal)	1200
Spacing (Tile)	330



ZB60			
Steel Grade	Yield Strength	Zinc Coating Mass	Base Metal Thickness *(mm)*
JIS3302	SGCH G550MPa	Z220g/m²	0.50/±2

Section Properties	Size (mm) Tolerance	
Height	60	±1
Width	105	±1
Standard Length	6096	±5
Top Flange	35	±2
Bottom Flanges	20	±1

Roofing	Maximum (mm)
Spanning	1500
Spacing (Metal)	1200
Spacing (Tile)	330



■ SECTION PROPERTIES

The above data is guideline only, may varies subject to individual Structural Engineer Design.

■ STANDARD LENGTH

Each **Zin Roof Batten** standard pack contains **6.1m x 100 pieces**. Nevertheless it can also be cut in the factory to any length specified by the customer.

WIND CODE	
Area	Non-cyclonic
Maximum Building Height	5m
Wind Velocity	50m/s
Internal Pressure Coefficient	±0.8
Terrain Category	-3

■ TOLERABLE WIND PRESSURE

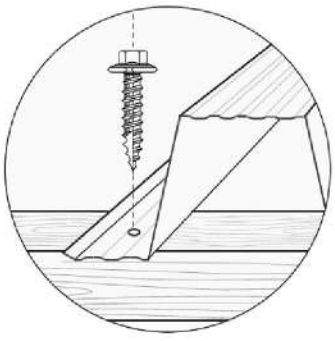
The batten spacing must not exceed the manufacturers maximum recommended support spacing for the roof cladding material.

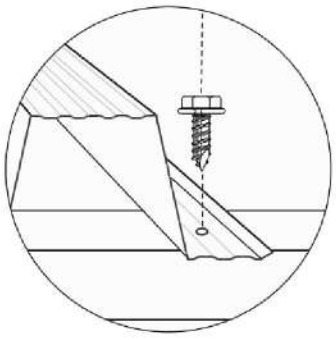
These values are for buildings located under the following conditions as specified by AS1170.

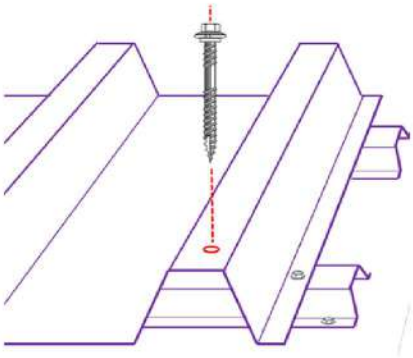
02 INSTALLATION

Roof battens are thin strips of material that made of Galvanised or Aluminum Zinc. They're installed before the roof is laid. The ideal installation method for roof battens when installing a roof depends on the roof profile, its slope, and environmental conditions such as rainfall, temperature and wind.

■ FIXING DETAILS

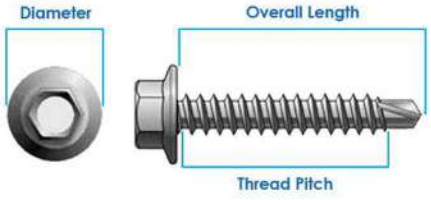






TIMBER FIXING	STEEL FIXING	ROOF SHEETS
Fasten the batten to every truss or rafter with a **12 x 40mm** timber fixing screw (minimum fixing size) through each flange. Use the groove in the flange to locate the fixing portion.	Fasten the batten to every truss or rafter with a **10 x 16mm** hex-head self-drilling screw (minimum fixing size) through each flange as shown in the illustration. Use the groove in the flange to locate the fixing portion.	The usual screw size is **4.8 x 50mm** or **4.8 x 65 mm**. Use **4.8 x 28 mm** size screws for bottom-of-the-rib fastening at the lower eaves and at all overlapping sections. The screws must have **EPDM** rubber gaskets.

■ FASTENER IDENTIFICATION

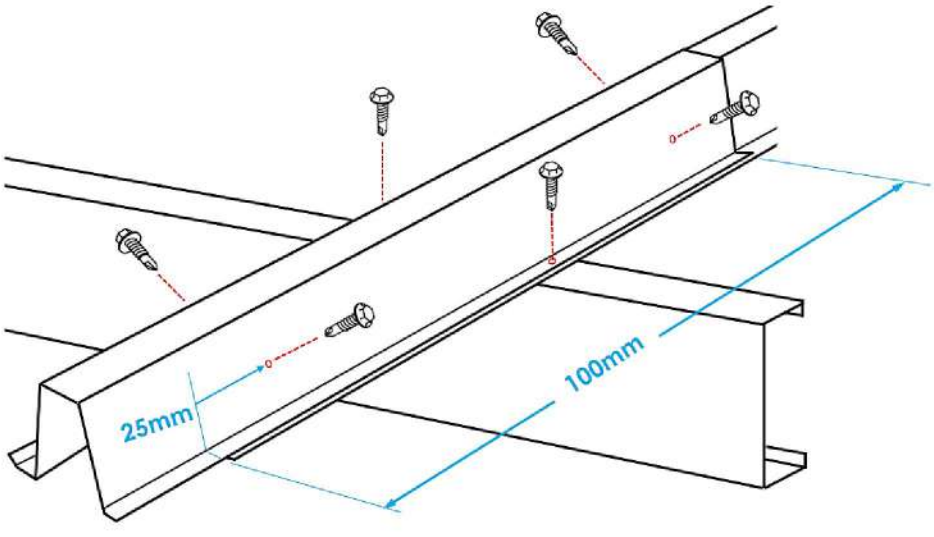


HEX-HEAD SCREW SIZE IDENTIFICATION				
12	–	**14**	×	**50**
M6	–	**11**	×	**50**
Screw **Gauge** (Thread Outside **Diameter**) **M** refers to metric size		**Thread Pitch** (threads per inch)		**Overall length** of the screw measured from under the head to the tip of the drill point (mm)

Important Note: Fasteners must be the correct size and grade, all progressively fully tightened during installation.

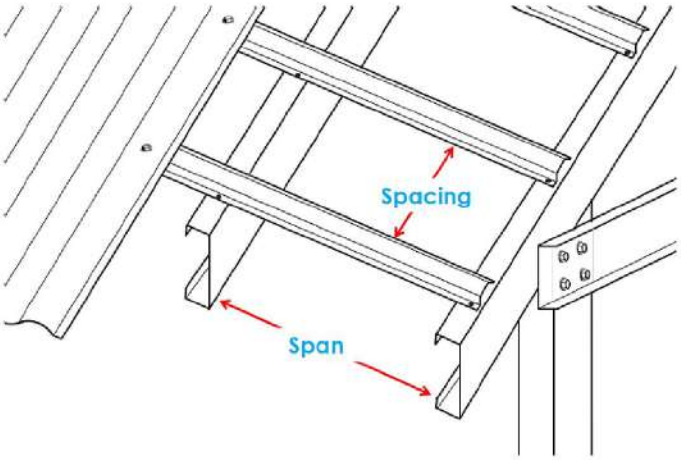
■ STRUCTURAL LAP

To minimize each cutting process, lay the battens in one direction starting from one end of the roof. The overlap must be supported over a truss or rafter. We recommend use our own **ZinTruss C purlins** to achieve maximum performance and material compatibility.



■ FASTENER POSITION

Fastener position-screws must be located as shown in the illustration of the overlap battens



■ BATTENS SPACING

The ideal orientation and spacing of battens depends on the roof design and the environmental conditions it must endure.

They may be oriented at right angles to the trusses or rafters, or they may be installed parallel to the slope of the roof.

Some roofs may require a grid of battens that run in both directions. This is known as a counter-batten system.

The slope of the roof often dictates what batten system will be used.

A local building codes may require battens and dictate how they must be installed.

■ ROOFING SELECTION

Our factory made metal roofing profiles such as **ZinDek**, **ZinSpan**, **ZinLok** and **ZinEverroof** have been fully tested on compatibility with **Zin Roof battens**. If you have a technical question that you would like resolved, contact our technical team for expert advice.

03 PRECAUTIONS

■ TRANSPORT AND STORAGE

Battens nest together for easy transport and storage. Store battens in bundles, preferably indoors. If this is not possible, store off the ground, allow to drain properly and cover from the weather.

■ STORING ON-SITE

Battens are delivered in strapped bundles. If not required for immediate use, the bundles should be neatly stacked clear of the ground. When stacked they should be allowed to drain, should wetting occur. The bundles should not be exposed in the open for extended periods. If unavoidable, protect from rain and moisture with waterproof covers.

■ CUTTING

Cut each batten using a non-abrasive disc or metal cutting blade. Swarf and burred edges should be cleaned off on completion of cutting.

■ SAFETY

The installation of roofing batten can be hazardous, and will require an adequate safety plan be in place prior to handling or installing of these products. We recommend that good trade practice be followed. Our battens are not designed to be walked on unless fully covered by correctly installed materials or the correct grade of safety mesh.

The manufacturing or delivery process may result in oil or grease adhering to these battens which could increase the potential hazard.

Handling of this product must be carried out using a correctly supervised crane or appropriate lifting device. Safety harnesses must always be used during installation of purlins, battens and roof panels when working off the ground, and under no circumstances must any body weight be placed on roof panels, purlins, or battens that have not been fully fastened into position.

ISO 9001:2015
CERT. NO: KLR0500024

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