

## Residential Top Hat Steel Roof Battens



**BattenMan's 40mm Roof Battens** (Roof purlins ) are a direct replacement for timber purlins. These 40mm battens are specifically designed for use with Longrun Roofing profiles and wall claddings in conjunction with wood and steel framing. With spans of 1200mm at 900mm spacing's they can be used in extra high wind zones and where snow loads are present. Being made from 0.75mm. G550 Z275 high tensile steel means it won't rot, burn, splinter, warp or twist!

BattenMan provide a supply and install service that makes the process of purlin instillation fast and reliable. BattenMan installers are trained and have extensive experience in the instillation of roof battens and can typically install battens in half the time it would take to install wooden battens at about the same price.

BattenMan Roof battens are produced in 7.2m Lengths with metres with 45 degree mitres at each end and the ability to overlap makes it fast, simple to use and reduces wastage on site.

A Generic PS1 for the product is available upon request. If required our engineer can provide job specific PS1's at your cost.

Different screws are required for fixing to steel or timber trusses. We recommend Buildex Batten Zips or a Unitek type screw as noted in the Span Table.

## Advantages

- They can be fitted to both timber and steel trusses.
- Light weight easy to handle and construct.
- Dimensionally stable, they expand and contract at 0.1% the same rate as the roof in extreme temperature changes.
- Do not absorb water.
- They expand and contract at the same rate as steel roofing products in extreme temperature changes. No more buckling ridge line flashings.
- Factory Cut to length option available to reduce onsite waste.
- Direct delivery to site.
- Similar installed cost to wood purlins.
- Thermal break components supplied when installing on steel trusses.
- Approx. 75%faster install rate that wood purlins.
- All products are Z275 Galv coated backed by the manufacturers 50 year durability statement.
- Purlins conform to the New Zealand Building Code.
- Batten Top Hat design allows battens to be stacked together.
- Producer statement available on request.
- Professional trained and experienced installers.
- Steel is 100% Recyclable.
- All instillations are audited for conformity to manufactures design & instillation specifications.
- Known properties. The products are or a consistent quality and the engineering properties are well known and documented. Unlike timber which can vary enormously in strength etc.
- Long lengths are available, up to the maximum allowed for road transport.
- 40mm batten height integrates with steel fascia systems.

| EX LIGHT GAUGE STEEL COLD ROLLED SECTIONS AS PURLINS<br>40 TOP HAT AS SUPPLIED BY ROLLFORMING SERVICES<br>SPAN PURLIN CONTINUOUS OVER MINIMUM TWO SUPPORTS<br>MAX CANTILEVER OVERHANG FOR SOFFIT TAKE 40% MAX SUPPORTED SPAN<br>Battens for Roof and Wall Claddings<br>40x73x0.75 Top Hat Section |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------------------------------------------------------------------------|------------------------|--------|---------------|------------------------|--------|----------------|------------------------|--------|
| Table of max span vs spacings<br>Pressure Factor Combinations kCpmax = + or - 2.0                                                                                                                                                                                                                 |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| Section Spacings (mm)                                                                                                                                                                                                                                                                             |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| 300mm Spacing                                                                                                                                                                                                                                                                                     |                        |                        | 600mm Spacing                                                                            |                        |        | 900mm Spacing |                        |        | 1200mm Spacing |                        |        |
| Max Span (m)                                                                                                                                                                                                                                                                                      | Fixing to Truss/Rafter | Steel                  | Max Span (m)                                                                             | Fixing to Truss/Rafter | Steel  | Max Span (m)  | Fixing to Truss/Rafter | Steel  | Max Span (m)   | Fixing to Truss/Rafter | Steel  |
| Note: Point loads control span                                                                                                                                                                                                                                                                    |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| Medium wind 37m/s                                                                                                                                                                                                                                                                                 | 0.821KpA               | 1.2 Type A Type A      | 1.2                                                                                      | Type A Type B          | Type B | 1.1           | Type A Type B          | Type B | 1.0            | Type A Type B          | Type C |
| High wind 44m/s                                                                                                                                                                                                                                                                                   | 1.160KpA               | 1.2 Type A Type A      | 1.2                                                                                      | Type A Type B          | Type B | 1.0           | Type A Type B          | Type B | 0.9            | Type A Type B          | Type C |
| Very high wind 50m/s                                                                                                                                                                                                                                                                              | 1.500KpA               | 1.2 Type A Type A      | 1.1                                                                                      | Type A Type B          | Type B | 0.9           | Type A Type B          | Type B | 0.8            | Type B Type C          | Type C |
| Extra high wind 55m/s                                                                                                                                                                                                                                                                             | 1.815KpA               | 1.2 Type A Type B      | 1.0                                                                                      | Type A Type B          | Type B | 0.9           | Type B Type C          | Type C | 0.8            | Type B Type D          | Type D |
| For fasteners use a Type A, B, C, D fixing as noted below                                                                                                                                                                                                                                         |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| Type A                                                                                                                                                                                                                                                                                            | 1-Screw or 2-nails     | Recommended Screw Type | Buildex 12 - 11 x 40 Hex Head BattenZips® Climaseal® 3 or equivalent from other supplier |                        |        |               |                        |        |                |                        |        |
| Type B                                                                                                                                                                                                                                                                                            | 2 Screws or 4 nails    | Recommended Nail Type  | To Timber only-90x3.15 Gun nail                                                          |                        |        |               |                        |        |                |                        |        |
| Type C                                                                                                                                                                                                                                                                                            | 3 Screws               |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| Type D                                                                                                                                                                                                                                                                                            | 4 Screws               |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |
| Being minimum number of fasteners required to fix batten to the rafter or truss at truss/batten location                                                                                                                                                                                          |                        |                        |                                                                                          |                        |        |               |                        |        |                |                        |        |