

# KEVIN BURROWS ENGINEERS

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<b>PROJECT DESCRIPTION</b> <b>ADDRESS</b>	Rollforming Services Ltd	<b>PAGE No</b>	Table 1
	16B Ormiston Road East Tamaki	<b>JOB No</b>	15-783
		<b>DATE</b>	12/11/2015
		<b>DESIGN BY</b>	KB

<b>REFERENCE No</b>	Top Hat 40 Profile
<b>LOCATION</b>	Roof Batten as Purlin
<b>SPAN</b>	Varies as per Table

**EX LIGHT GAUGE STEEL COLD ROLLED SECTIONS AS PURLINS**  
**40 TOP HAT AS SUPPLIED BY ROLLFORMING SERVICES**  
**SPAN PURLIN CONTINUOUS OVER MINIMUM TWO SUPPORTS**  
**MAX CANTILEVER OVERHANG FOR SOFFIT TAKE 40% MAX SUPPORTED SPAN**

Battens for Roof and Wall Claddings  
40x73x0.75 Top Hat Section

Profiled Metal Roofings with wind loads as noted or 0.25 LL whichever worst case	Table of max span vs spacings Pressure Factor Combinations $kC_{pmax} = +$ or $- 2.0$											
For connections to wood substrate Refer NZS3604:2011 for wind loadings. For connections to min 0.75 ga steel Connect with min 1-10 gauge screw for up to 0.50 kN/m, 2 per 1.0kN/m, 3 per 1.5kN/m, and 4 per 2.0kN/m	Section Spacings (mm)											
	300mm Spacing			600mm Spacing			900mm Spacing			1200mm Spacing		
	Max Span (m)	Fixing to Truss/Rafter		Max Span (m)	Fixing to Truss/Rafter		Max Span (m)	Fixing to Truss/Rafter		Max Span (m)	Fixing to Truss/Rafter	
		Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel
	Note: Point loads control span											
Medium wind 37m/s 0.821KpA	1.2	Type A	Type A	1.2	Type A	Type B	1.1	Type A	Type B	1.0	Type A	Type B
High wind 44m/s 1.160KpA	1.2	Type A	Type A	1.2	Type A	Type B	1.0	Type A	Type B	0.9	Type A	Type C
Very high wind 50m/s 1.500KpA	1.2	Type A	Type A	1.1	Type A	Type B	0.9	Type A	Type B	0.8	Type B	Type C
Extra high wind 55m/s 1.815KpA	1.2	Type A	Type B	1.0	Type A	Type B	0.9	Type B	Type C	0.8	Type B	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