

GUIDE-LINE TO APPLICATION OF MiTek® TOP-HAT PROFILES

20mm Top-Hat (for Ceilings ONLY)

Product Code : USCEIL



25mm Top-Hat

Product Code : USBAT25



40mm Top-Hat

Product Code : USP0.5G



PLEASE NOTE :

- * All Tek Screws must be compliant with the requirements of SANS 1273 as supplied by MiTek®
 - Where Multi-Ply Trusses occur all stated connections must be made into each and every Ply
 - Where Timber Bracing Frames occur Purlins and Battens must be connected to the Bracing Frames
- refer to MiTek Bracing Details
 - For application with Roof Coverings other than those noted please refer to MiTek®
 - If in doubt please refer to MiTek Industries South Africa (Pty) Ltd
- * MiTek are not responsible for products' adequacy if installed using non-MiTek connections.

GUIDE-LINE TO APPLICATION OF MiTek® Top-Hat Profiles - Fixing to Timber

	TOP HAT SIZE / APPLICATION	PRODUCT CODE	Max. Truss Spacing c/c (mm)	Max. Top Hat Spacing c/c (mm)	Fixing to Timber	
					General Fixing	Splice Fixing
20mm Top-Hat	20mm Ceiling Batten	USCEIL	1400	400	2 x 35mm Permfix (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 35mm Permfix (1 per Flange) Between Trusses : Minimum overlap of 200mm plus 4 x 8x13 Tek Screws (2 per Flange)
25mm Top-Hat	25mm Tiling Batten <i>for use with : Concrete Tiles</i>	USBAT25	1100	330	$\leq 20^\circ$ - 1 x 35mm Permfix on Lower Flange only At Eaves, Gable & Apex use 2 x 35mm Permfix (1 per Flange) $> 20^\circ$ - 2 x 35mm Permfix (1 per Flange) At Eaves, Gable & Apex use 2 x 35mm Permfix (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 35mm Permfix (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 8x13 Tek Screws (2 per Flange)
	25mm Web & Bottom Chord Runner <i>(NOT to be used with Bracing Frames)</i>	USBAT25	1400	refer to Truss Design	2 x 35mm Permfix (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 35mm Permfix (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
	25mm Web Cross Bracing <i>(NOT to be used with Bracing Frames)</i>	USBAT25	800	refer to Truss Design	2 x 35mm Permfix (1 per Flange) at each connection	Not Applicable
40mm Top-Hat	40mm Tilting Batten <i>for use with : Tiled Roofs using the 25mm Tiling Batten</i>	USP0.5	1100	N/A	2 x 35mm Permfix (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 35mm Permfix (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
	40mm Purlin <i>for use with : Sheeted Roofs or Metal Tile Roofs</i>	USP0.5	1400	1150	2 x 60mm eCo Purlin Nail (1 per Flange) At Eaves, Gable & Apex use 2 x 60mm Permfix Additional eCo Strapping required for High Wind Areas - refer MiTek Engineering	Onto Truss : Min. overlap of 160mm plus 2 x 60mm eCo Purlin Nail (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
	40mm Web Cross Bracing & Top Chord & Bottom Chord Bracing	USP0.5	1400	refer to Truss Design	2 x 35mm Permfix (1 per Flange) at each connection	Not Applicable
	40mm Web & Bottom Chord Runner	USP0.5	1400	refer to Truss Design	2 x 35mm Permfix (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 35mm Permfix (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)

GUIDE-LINE TO APPLICATION OF MiTek® Top-Hat Profiles - Fixing to Steel

	TOP HAT SIZE / APPLICATION	PRODUCT CODE	Max. Truss Spacing c/c (mm)	Max. Top Hat Spacing c/c (mm)	Fixing to Steel (Ultra-Span)	
					General Fixing	Splice Fixing
20mm Top-Hat	20mm Ceiling Batten	USCEIL	1400	400	2 x 8x13 Tek Screws (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 8x13 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 200mm plus 4 x 8x13 Tek Screws (2 per Flange)
25mm Top-Hat	25mm Tiling Batten <i>for use with : Concrete Tiles</i>	USBAT25	1100	330	≤ 20° - 1 x 8x13 Tek Screw on Lower Flange only At Eaves, Gable & Apex use 2 x 8x13 Tek Screws (1 per Flange) > 20° - 2 x 8x13 Tek Screws (1 per Flange) At Eaves, Gable & Apex use 2 x 8x13 Tek Screws (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 8x13 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 8x13 Tek Screws (2 per Flange)
	25mm Web & Bottom Chord Runner <i>(NOT to be used with Bracing Frames)</i>	USBAT25	1400	refer to Truss Design	2 x 12x20 Tek Screws (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 12x20 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
40mm Top-Hat	40mm Tilting Batten <i>for use with : Tiled Roofs using the 25mm Tiling Batten</i>	USP0.5	1100	N/A	2 x 12x20 Tek Screws (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 12x20 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
	40mm Purlin <i>for use with : Sheeted Roofs or Metal Tile Roofs</i>	USP0.5	1400	1150	2 x 12x20 Tek Screws (1 per Flange) At Eaves, Gable & Apex use 4 x 12x20 Tek Screws (2 per Flange) Additional eCo Strapping required for High Wind Areas - refer MiTek Engineering	Onto Truss : Minimum overlap of 100mm plus 2 x 12x20 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)
	40mm Web Cross Bracing & Top Chord & Bottom Chord Bracing	USP0.5	1400	refer to Truss Design	2 x 12x20 Tek Screws (1 per Flange) at each connection	Not Applicable
	40mm Web & Bottom Chord Runner	USP0.5	1400	refer to Truss Design	2 x 12x20 Tek Screws (1 per Flange)	Onto Truss : Minimum overlap of 100mm plus 2 x 12x20 Tek Screws (1 per Flange) Between Trusses : Minimum overlap of 300mm plus 4 x 12x20 Tek Screws (2 per Flange)