

SplitHanger Galvanised and Stainless Steel

SUITABLE FOR VARIOUS WIDTHS OF TIMBER BEAM

SplitHangers are versatile hangers that provide a heavy duty connection for various solid timber beam widths to supporting beams. They provide a fast and easy fixing method for various width of timber beam to supporting beam, waling plate to stud and where clearance is required at corner beam connection.

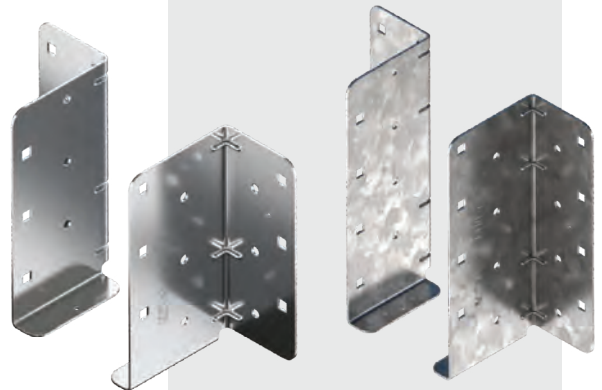


For durability information, please refer to **Corrosion Resistance of MiTek Metal Connectors**, available on the MiTek website at mitek.com.au

SplitHangers are also available in stainless steel for use in corrosive environments.

ADVANTAGES

- No requirement to determine hanger's width to suit beam thickness.
- Quick installation with screws.
- Proprietary MSA screws can drive through sheet metal without need to pre-drill.
- Improved performance over nailed hanger alternatives.
- Versatile heavy duty hanger.



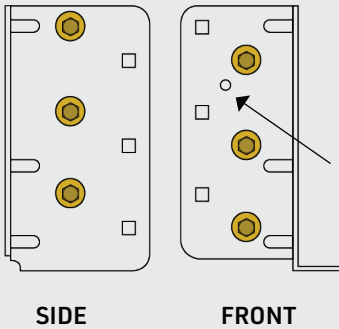
This certified Engineered Building Product complies with the National Construction Code, Australian Standards and is CodeMark certified.

SPECIFICATIONS

Steel Grade	Galvanised Steel	Stainless Steel
Steel Grade	G300	304-2B
Thickness (Total Coated)	1.55mm	1.5mm
Screws	MiTek MSA1430 - 14g x 30mm or MiTek MSA1465 - 14g x 65mm anti-split self-drilling Ruspert coating screws	MiTek SC3514SS Type 17-14g x 35mm or MiTek SC7514SS Type 17-14g x 75mm stainless steel hex head screws
Product Code	SPH140, SPH180, SPH220	SPH140SS, SPH180SS, SPH220SS

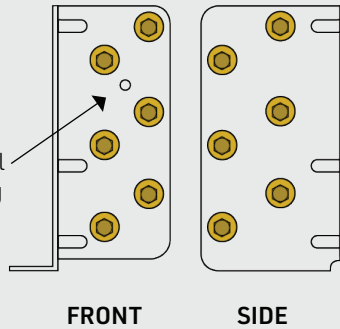
SPLITHANGER SPH140 & SPH140SS SCREW FIXING

SPH140 with 3 MiTek screws to each face

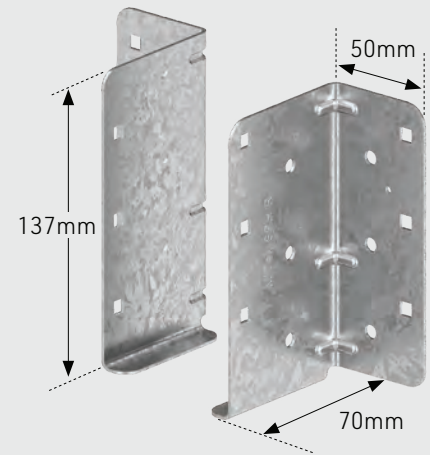


Drive MiTek screws into round holes only.

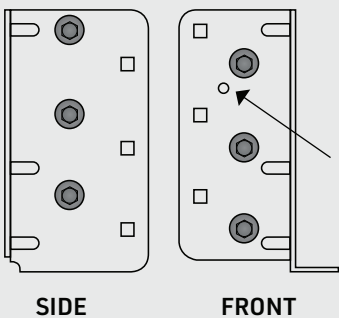
SPH140 with 6 MiTek screws to each face



Drive MiTek screws into round and square holes.

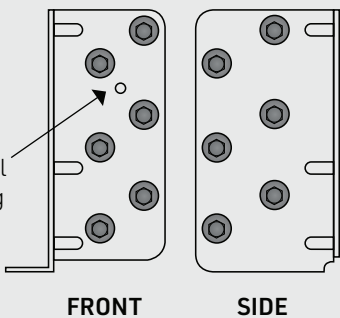


SPH 140SS Fix with 3 MiTek SC3514SS screw to each face

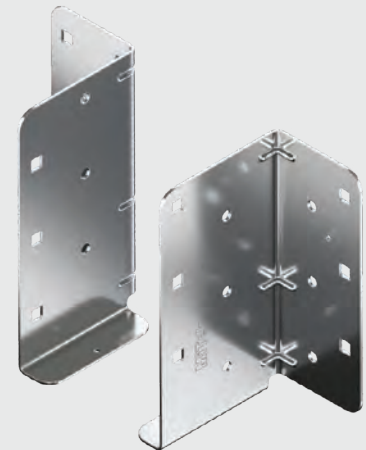


Drive MiTek screws into round holes only.

SPH 140SS Fix with 6 MiTek SC3514SS screw to each face



Drive MiTek screws into round and square holes.

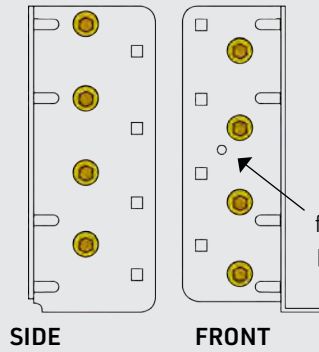


SPLITHANGER SPH140 & SPH140SS LOAD DATA

Load Case	Number of screws fixed to each face		Limit State Design Capacity for a pair of SPH140 & SPH140SS (kN)			
	Supporting Beam	Supported Beam	Timber Joint Group			
			JD3	JD4	JD5	JD6
DL Only k1 = 0.57	3	3	5.9	5.9	4.2	3.1
	6	6	11.0	11.0	7.8	5.7
DL + Floor LL k1 = 0.69	3	3	7.2	7.2	5.1	3.7
	6	6	13.4	13.4	9.5	6.9
DL + Roof LL k1 = 0.77	3	3	8.0	8.0	5.7	4.2
	6	6	14.9	14.9	10.6	7.7
DL + WL k1 = 1.14	3	3	11.9	11.9	8.4	6.1
	6	6	22.1	22.1	15.7	11.4

SPLITHANGER SPH180 & SPH180SS SCREW FIXING

SPH180 with 4 MiTek screws to each face

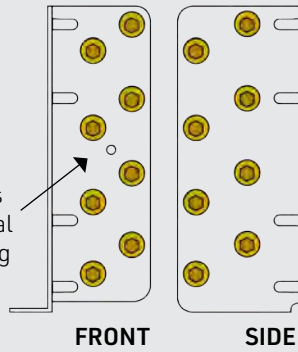


SIDE

FRONT

Drive MiTek screws into round holes only.

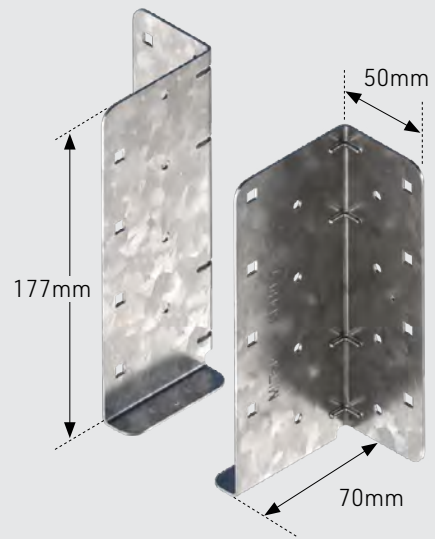
SPH180 with 8 MiTek screws to each face



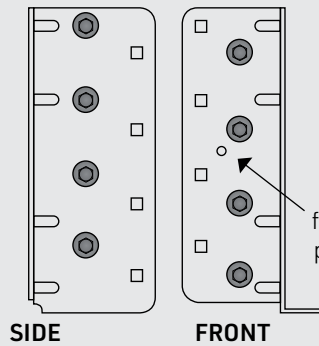
FRONT

SIDE

Drive MiTek screws into round and square holes.



SPH 180SS Fix with 4 MiTek SC3514SS screw to each face

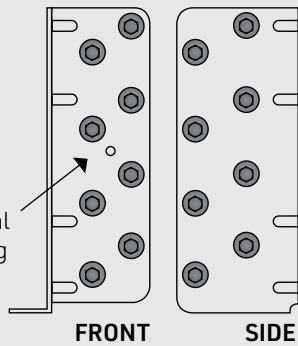


SIDE

FRONT

Drive MiTek screws into round holes only.

SPH 180SS Fix with 8 MiTek SC3514SS screw to each face



FRONT

SIDE

Drive MiTek screws into round and square holes.

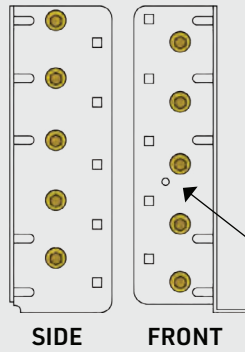


SPLITHANGER SPH180 & SPH180SS LOAD DATA

Load Case	Number of screws fixed to each face		Limit State Design Capacity for a pair of SPH180 & SPH180SS (kN)			
	Supporting Beam	Supported Beam	Timber Joint Group			
			JD3	JD4	JD5	JD6
DL Only k1 = 0.57	4	4	9.4	9.4	6.7	4.9
	8	8	17.3	17.3	12.3	8.9
DL + Floor LL k1 = 0.69	4	4	11.4	11.4	8.1	5.9
	8	8	20.9	20.9	14.8	10.8
DL + Roof LL k1 = 0.77	4	4	12.7	12.7	9.0	6.6
	8	8	23.3	23.3	16.6	12.1
DL + WL k1 = 1.14	4	4	18.8	18.8	13.3	9.7
	8	8	34.6	34.6	24.5	17.9

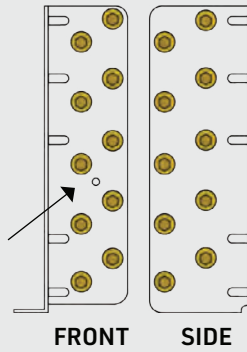
SPLITHANGER SPH220 & SPH220SS SCREW FIXING

SPH220 with 5 MiTek screws to each face

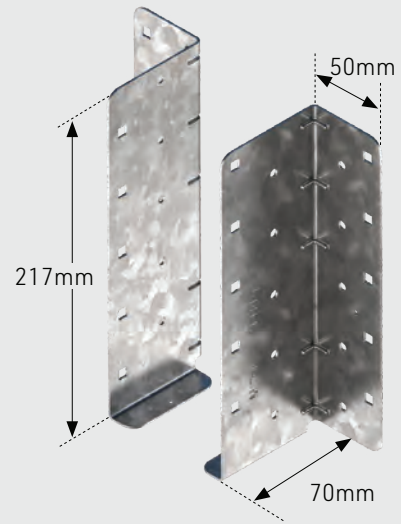


Drive MiTek screws into round holes only.

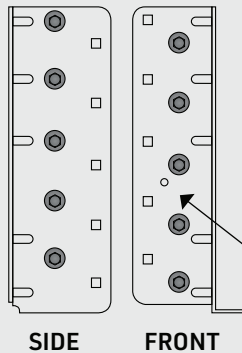
SPH220 with 10 MiTek screws to each face



Drive MiTek screws into round and square holes.

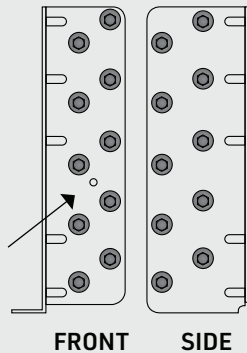


SPH 220SS Fix with 5 MiTek SC3514SS screw to each face



Drive MiTek screws into round holes only.

SPH 220SS Fix with 10 MiTek SC3514SS screw to each face



Drive MiTek screws into round and square holes.



SPLITHANGER SPH220 & SPH220SS LOAD DATA

Load Case	Number of screws fixed to each face		Limit State Design Capacity for a pair of SPH220 & SPH220SS (kN)			
	Supporting Beam	Supported Beam	Timber Joint Group			
			JD3	JD4	JD5	JD6
DL Only k1 = 0.57	5	5	11.0	11.0	7.8	5.7
	10	10	21.1	21.1	15.0	10.9
DL + Floor LL k1 = 0.69	5	5	13.4	13.4	9.5	6.9
	10	10	25.6	25.6	18.1	13.2
DL + Roof LL k1 = 0.77	5	5	14.9	14.9	10.6	7.7
	10	10	28.6	28.6	20.3	14.8
DL + WL k1 = 1.14	5	5	22.1	22.1	15.7	11.4
	10	10	42.3	42.3	30.0	21.9

GENERAL NOTES

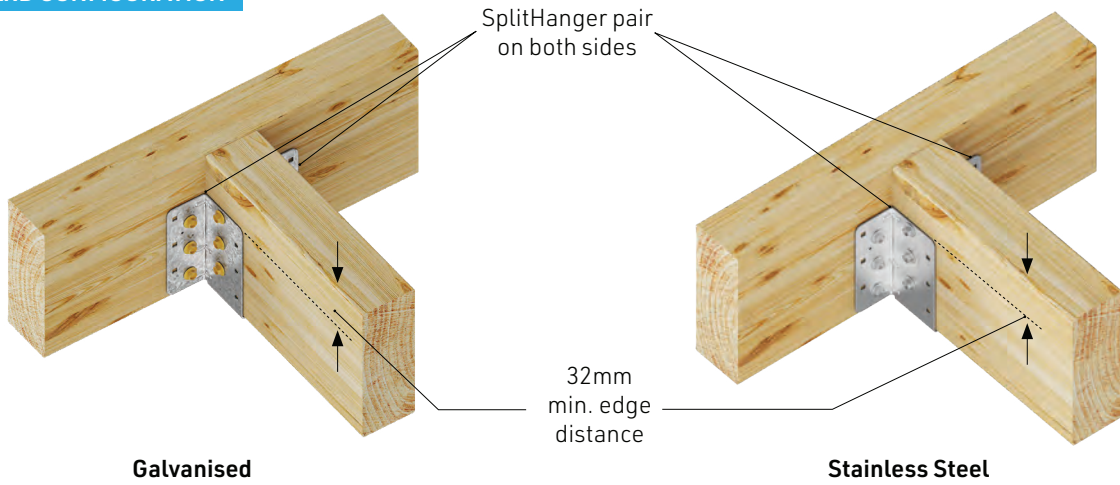
1. The design capacities in the tables apply to a pair of SplitHangers fitted on both sides of the supported member in the standard configuration.
2. When both round and square holes are filled the supported member must be a minimum of double 35mm or 70mm wide.
3. When a single SplitHanger is fitted on one side only, use 33% of the standard capacity.
4. The Split Joist Hanger must cover at least 60% of the depth of supported member unless additional blocking or lateral restraints are provided to the top of the supported member at the support point.
5. When a pair of SplitHangers is stacked on one side, use 65% of the standard capacity.
6. When a pair of SplitHangers is stacked on both sides, double the capacity of a pair of SplitHangers stacked on one side.
7. Use galvanised screws with galvanised steel SplitHangers, use stainless screws with stainless steel SplitHangers.
8. MSA1465 and SC7514SS screws can be used in multiple ply supporting members for load sharing. Generic stainless steel 14g x 65mm hex head screws can also be used for this installation in Stainless Steel Split Hangers.
9. Where the member is of multiple ply construction, the plies are to be laminated together as per Clause 2.3 and Clause J2 for sawn timber and Engineer Wood Products (EWPs) in AS 1684 respectively.
10. Design capacities have been obtained from laboratory testing in accordance with the relevant standard.
11. Design capacities in the tables incorporate the capacity factor (ϕ) for Category 1 structural joints. For other categories, multiply the design capacities by 0.94 for Category 2 and 0.88 for Category 3. Refer to AS 1720.1 for a full definition of each category.

Category	1	2	3
Adjustment factor	1.00	0.94	0.88

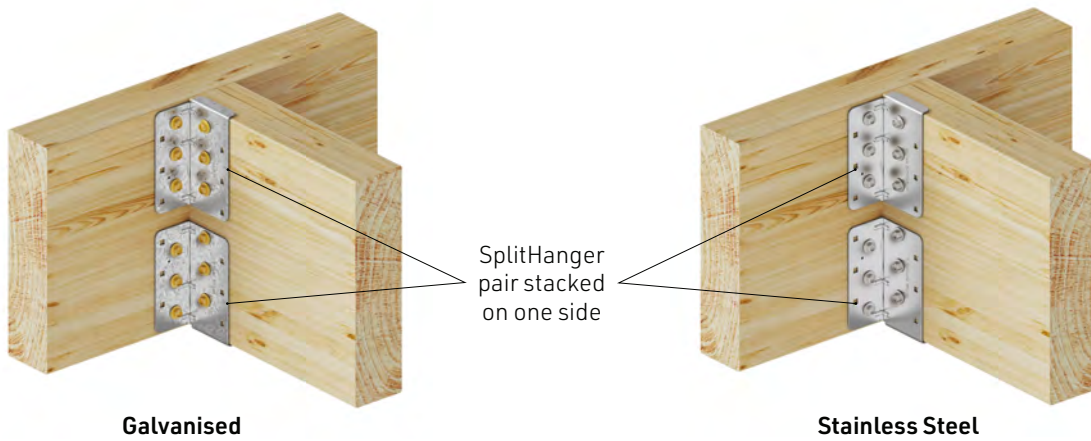
INSTALLATION

Drive selected number of MiTek screws into supporting and supported beam as indicated in the tables for each SplitHanger size to obtain the required design capacities. Always fit MiTek screws into round holes before using square ones.

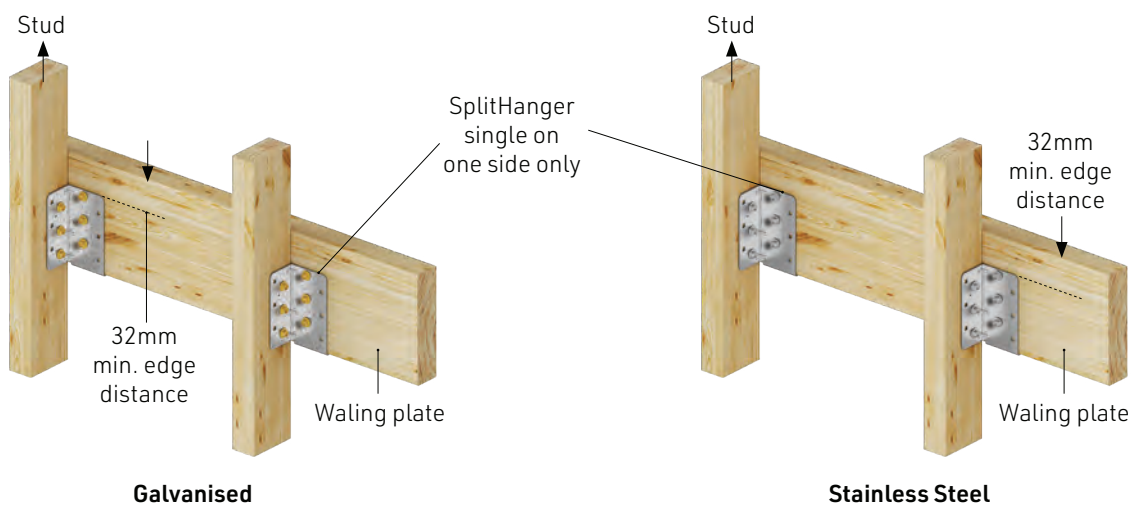
STANDARD CONFIGURATION



STACKED CONFIGURATION



SINGLE CONFIGURATION



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