



# PRODUCT DATA

## Connector – Z Bracket

Design capacities are based on laboratory tests, engineering computations, Australian Standards and the National Construction Code (NCC).


Relevant Standards include but are not limited to;





- AS1720.1-2010 Timber Structures. Part 1: Design Methods
- AS/NZS1170 series Structural Design Actions
- AS4055-2006 Wind Loads for Housing

Applications
<ul style="list-style-type: none"> <li>• Timber beams</li> <li>• Fences</li> <li>• Solar panels</li> </ul>

# General purpose Bracket



<b>Material</b>	 MS G250 mild steel
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<b>Finish</b>	 HOT DIP GALVANISED to AS1397-Z350 (For non-structural applications.)	
	 HOBKOTE® to AS1789-Fe/Zn5D (For non-structural applications.)	



Designed for use with M12 /M16 class 4.6 threaded fasteners.

Maximum static safe working load – 3 kN per bracket with 2.3mm deflection.

### Design Category


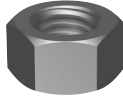

Category 1 joints - AS1720.1-2010 Timber Structures. Part 1: Design Methods –Table 2.1 and 2.2 (Structural joints for houses for which failure would be unlikely to affect an area greater than 25m<sup>2</sup>: OR Joints for secondary elements other than houses).

Design capacities are based on the Joint Group of the timber as defined in AS1720 and AS1684. Refer to Appendix H: Design Properties for Structural Graded Timber.

Where a joint comprises more than one species of timber, the lowest joint group classification shall be used for the design. Example, JD3 is lower than JD2.

Design loads are to be based on AS/NZS1170 series Structural Design Actions.

### Related Products

HDG DIN 975 Class 4.6	HDG AS 1112.3 Class 5	HDG HEC Mild Steel
		
METRIC ALLTHREAD	METRIC HEX NUT	METRIC FLAT ROUND
ASMSGCM	NH05GCM	WRMSGM

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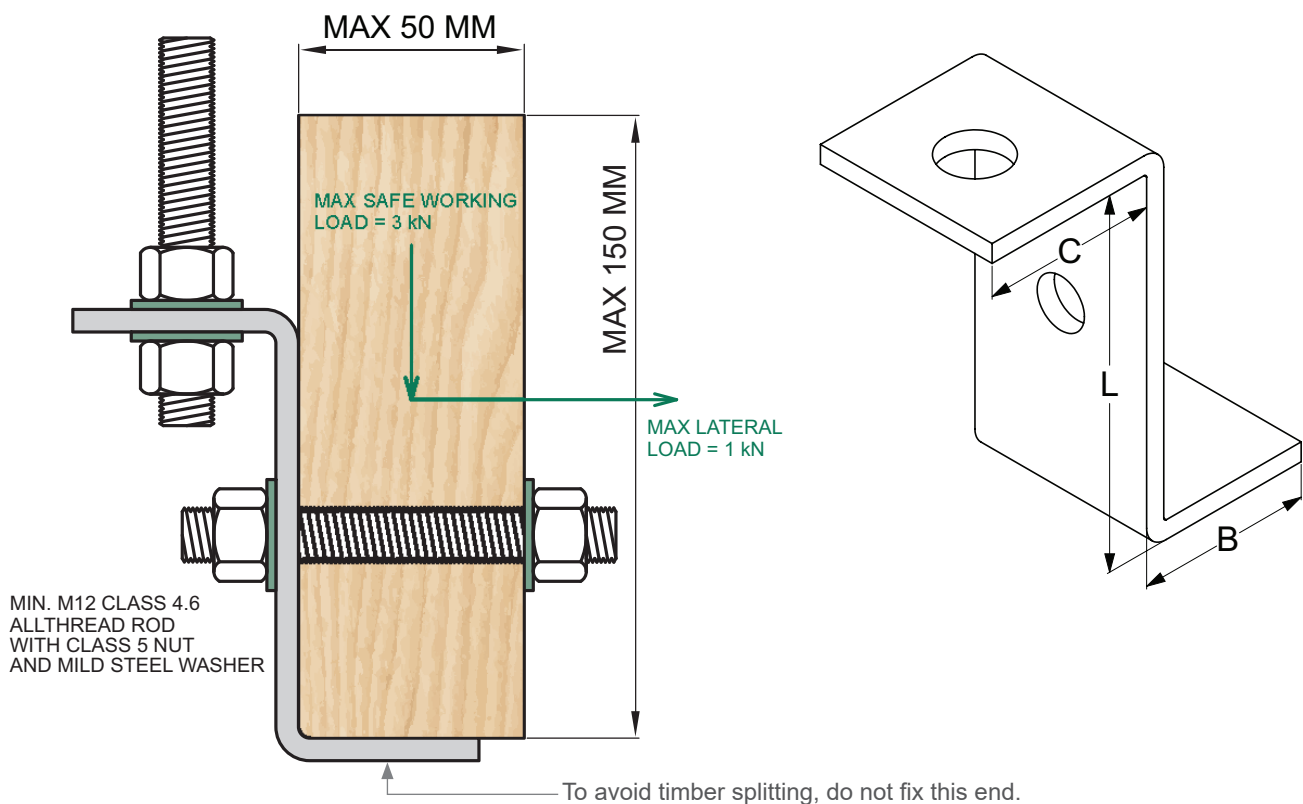


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Part	Finish	Clearance Hole	L	B	C	Material	Pack Qty
			(mm)	(mm)	(mm)	(mm)	
GTCGZ	HOT DIP GALVANISED to AS1397-Z350	M12 & M16	90	40	45	50 x 5	10
GTCHZ	HOBKOTE® to AS1789-FE/Zn5D	M12 & M16	90	40	45	50 x 5	10



### Installation guides

1. Use approved safety equipment and due care
2. Do not encroach minimum spacing, edge and end distances of fasteners as per AS1720.1-2010
3. Avoid overloading during installation
4. Hole diameters to comply with AS1720.1-2010
5. Washers to be installed as per AS1720.1-2010 (refer Table 4.11)
6. Avoid splitting timber (where necessary pre drill holes).



All joints must be free from loose knots, severe sloping grain, gum veins, gum or rot pockets, lyctid-susceptible sapwood, holes or splits in the vicinity of any fasteners or notch roots.

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