SDWS TIMBER SCREW

WALL PLATE TO STUD TIE-DOWNS

DESIGN CAPACITIES

JD4 JOINT GROUP		$N_{d,j}$ Limit State Uplift Design Capacity (kN)			
Screw Code	Length (mm)	Plate Thickness (mm)			
		35	45	70	80
SDWS224	100	4.3	4.1	NA	NA
SDWS225	125	5.0	5.0	4.1	3.4
SDWS226	150	5.0			

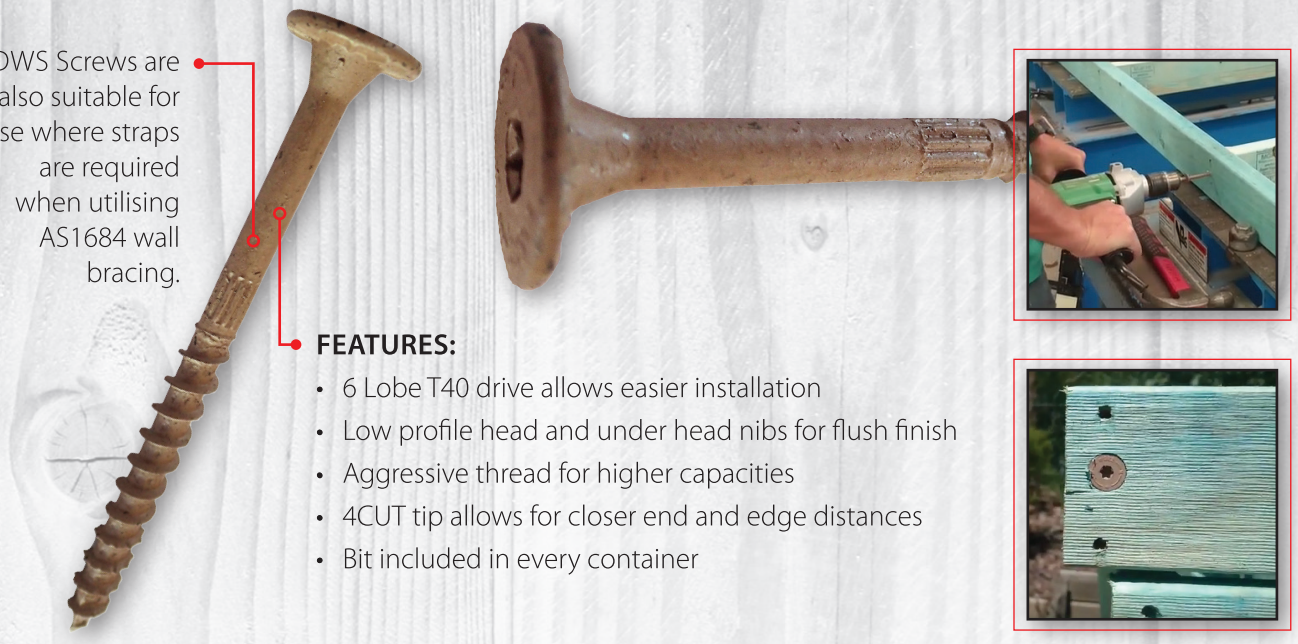
DESIGN CAPACITIES

JD5 JOINT GROUP		$N_{d,j}$ Limit State Uplift Design Capacity (kN)			
Screw Code	Length (mm)	Plate Thickness (mm)			
		35	45	70	80
SDWS224	100	3.1	2.9	NA	NA
SDWS225	125	3.5	3.5	2.9	2.4
SDWS226	150	3.5			

SDWS SCREW NOTES:

1. Values per screw. Doubling up screws allowed for 90mm studs only. **2.** Plates to be designed for required tie-down spacing.
Capacities above assume the screw is used with 2 nails (min 3mm Ø and 30mm penetration into stud).

SDWS Screws are also suitable for use where straps are required when utilising AS1684 wall bracing.



FEATURES:

- 6 Lobe T40 drive allows easier installation
- Low profile head and under head nibs for flush finish
- Aggressive thread for higher capacities
- 4CUT tip allows for closer end and edge distances
- Bit included in every container

ROOF TIE-DOWN AREAS

JD4 JOINT GROUP		N2 Sheet Roof Tie-Down Area (m^2)		N3 Sheet Roof Tie-Down Area (m^2)		N3 Tile Roof Tie-Down Area (m^2)	
Screw Code	Length (mm)	Plate Thickness (mm)		Plate Thickness (mm)		Plate Thickness (mm)	
		35	70	35	70	35	70
SDWS224	100	5.8	NA	3.2	NA	4.6	NA
SDWS225	125	6.8	5.5	3.8	3.1	5.4	4.4
SDWS226	150	6.8		3.8		5.4	

- *For other Joint Groups or Plate Thicknesses use capacities and formulae to calculate areas.*

AREA CALCULATION FORMULAE:
Common Stud Area = Tie-Down Spacing x Roof Load Width.
Jamb Stud Area = ((Opening Width ÷ 2) + (Tie-Down Spacing ÷ 2)) x Roof Load Width.

SDWS ALLOWABLE LATERAL (Shear) LOAD (kN)

	Dead Load	Dead + Floor Live Load	Wind Uplift
	$k_1 = 0.57$	$k_1 = 0.69$	$k_1 = 1.14$
JD4	2.9	4.3	7.1
JD5	2.1	3.1	5.1

NOTES:
Minimum timber thickness to be 35mm.
Minimum screw embedment to be 35mm.
Screw to be driven flush and tip not to protrude more than 10mm.
Values above caluclated for single shear into side grain.
For screws into end grain multiply values by 0.6.

Meyer TIMBER

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SIMPSON Strong-Tie

References: AS1684.2-2010, AS1720.1-2010, Simpson Strong-Tie Data. Calculations certified by George Dolezal, Structural Engineer, BE MIEAust (#1303804) for Meyer Timber.