

SAB-G

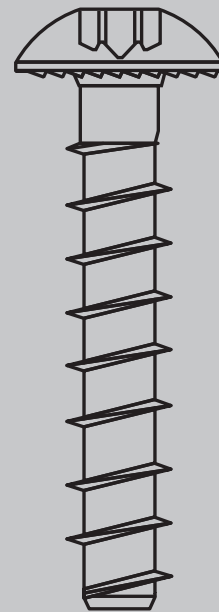
CONCRETE SCREW-ANCHOR TORX BUTTON HEAD / GALVANISED / C1 SEISMIC RATED

GAL

CERTIFICATION

TDS

Technical Data Sheet



NCC
COMPLIANT
AS 5216



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CONCRETE SCREW-ANCHOR TORX BUTTON HEAD / GALVANISED / C1 SEISMIC RATED

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Concrete Screw-Anchor Torx Button Head,
Galvanised, C1 Seismic Rated



- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, industrial, fencing
- Galvanised (45µm min.)

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

C1 Seismic Rated

R30 - R120 Fire Rated

Supported by AFOS Anchor Design Software
(Same load performance as SAB-Z)

Anchor Summary

Part Number	Description, Dia x L	Max. Fixture Thickness, t _{fix}	Embedment Depth, h _{nom}	Effective Anchor Depth, h _{ef}	Drill Hole Dia x Depth, d ₀ x h ₁	Minimum Concrete Thickness, h _{min}	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
								Tension	Shear	
1040.0060070	6 x 70mm ¹⁾	15mm	55mm	43mm	6 x 64mm	100mm	- / -	2.0kN ¹⁾	2.0kN ¹⁾	\$1.00
1040.0060100	6 x 100mm ¹⁾	45mm	55mm	43mm	6 x 64mm	100mm	- / -	2.0kN ¹⁾	2.0kN ¹⁾	\$1.25
1040.0080080	8 x 80mm	15mm	65mm	51mm	8 x 75mm	110mm	✓ / -	4.2kN	10.4kN	\$1.92
1040.0080100	8 x 100mm	35mm	65mm	51mm	8 x 75mm	110mm	✓ / -	4.2kN	10.4kN	\$2.22
1040.0100085	10 x 85mm	10mm	75mm	58mm	10 x 85mm	130mm	✓ / -	8.4kN	12.8kN	\$2.52
1040.0100100	10 x 100mm	25mm	75mm	58mm	10 x 85mm	130mm	✓ / -	8.4kN	12.8kN	\$2.61

1) The 6mm anchor is to be used only for multiple anchor redundant non-structural systems in concrete. Higher design capacities are possible depending on specific system arrangement (up to 3.0kN).

2) Without concrete edge or anchor spacing influence. Static and quasi-static load such as wind. To consider all design inputs and details, please refer to our AFOS Anchor Design Software or the ETA. SAB-G has same strength as SAB-Z.

3) Based on a volume of 1000+ fixings, as of March 2026.

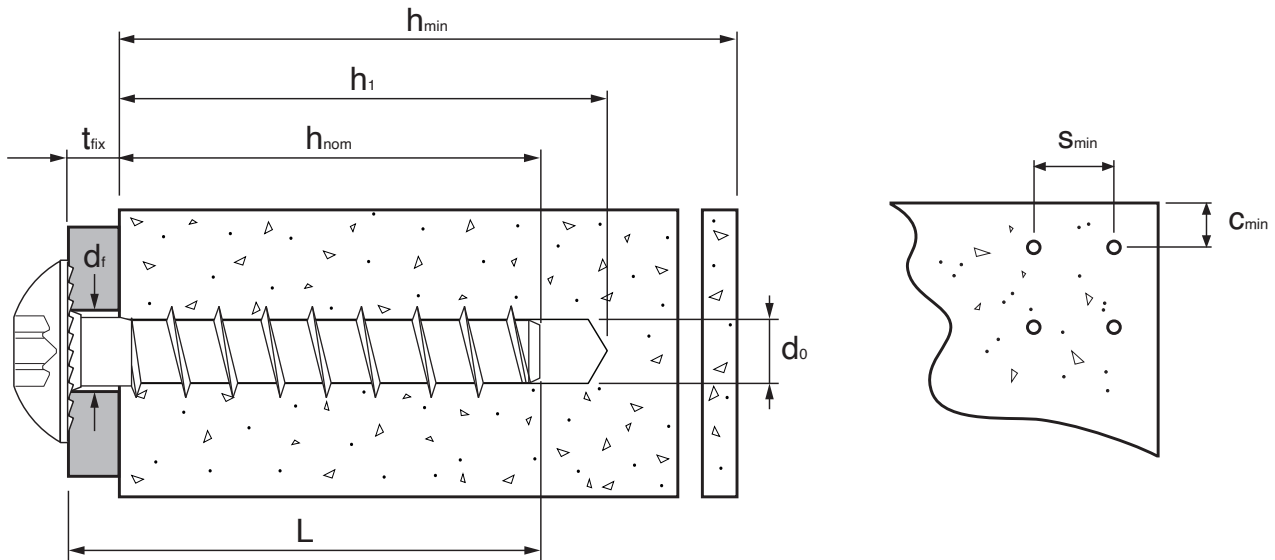
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Installation Parameters

Anchor Size		[mm]	6	8	10
Embedment depth	h_{nom}	[mm]	55	65	75
Drill hole diameter	d_o	[mm]	6	8	10
Depth of drill hole	$h_i \geq$	[mm]	64	75	85
Fixture clearance hole diameter	d_f	[mm]	9	11	13
Max. power output, power tool setting	T_{max}	[Nm]	80	120	120
Driver bit	Torx	-	T40	T45	T50
Minimum thickness of concrete member	h_{min}	[mm]	100	110	130
Minimum spacing	s_{min}	[mm]	40	50	60
Minimum edge distance	c_{min}	[mm]	40	50	60

The minimum embedment depths are specified based on ETA values tested and are required for NCC compliance and design according to AS 5216. For non-safety critical applications, smaller embedment can be used.



Installation Instructions

Drill hole preparation and cleaning		Install concrete screw-anchor			
1		<p>Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.</p>	3		<p>Screw in the anchor using an impact screw driver to the corresponding torque value / setting / maximum power output. Ensure not to overtighten.</p>
2		<p>Blow out dust or alternatively vacuum clean down to the bottom of the hole.</p>	4		<p>Check to ensure that you have full contact of screw head with fixture.</p>

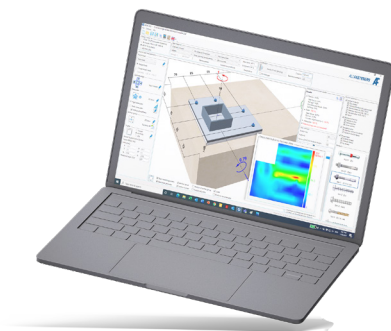
For other anchor properties, please refer to the ETA on our website.



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



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