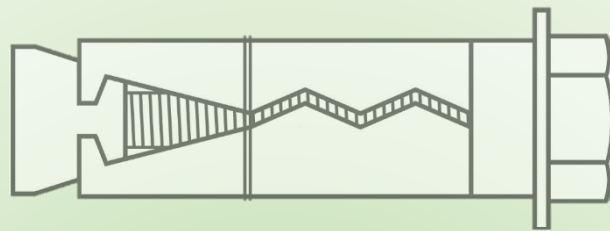


SAMPLE SPECIFICATION



AEFAC – SS 02

SHIELD EXPANSION FASTENERS

Ver. 1.1
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SAMPLE SPECIFICATION: SHIELD EXPANSION FASTENERS

1. Scope

This sample specification provides guidance to help develop an accurate and complete specification for torque-controlled expansion anchors (shield type) for use in concrete. This document is a guide only and should not be considered a suitable substitute for material provided in the manufacturer's installation instructions accompanying a product.

2. Importance of correct specification

- Incorrect installation may prevent the anchor from functioning as intended.
- A complete and accurate specification is necessary to ensure the contractor purchases the correct product and so that the installer adopts the correct installation practice.
- Failure of a fastener may cause severe injury, economic loss and in some circumstances, loss of life.

3. Minimum information to be specified

The fastener shall be installed according to manufacturer's instructions. Always refer to manufacturer's installation instructions for a complete list of items to be included in the specification.

Fastener	Name	
	Part number	
	Size	<i>(E.g. M12)</i>
	Finish / Coating	<i>(E.g. Zinc plated)</i>
Anchor bolt	Diameter and length (mm)	<i>(E.g. M12x100)</i>
	Finish/Coating	<i>(E.g. Zinc plated)</i>
	Strength grade	<i>(E.g. Class 8.8)</i>
Drill hole	Diameter (mm)	
	Depth (mm)	
Socket size (mm)		
Tightening torque (N.m)	If applicable	
Hole drilling Method		

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4. Installation

The fastener shall be installed according to manufacturer's instructions. The setting tools (including sockets etc.), cleaning accessories (blow-out pump and cleaning brushes etc.) shall be used as per the manufacturer's installation instructions.

5. Change management

The proper change management procedure must be followed if an alternative fastener is proposed. An alternate fastener should not be deemed a satisfactory substitute without the written consent of the designer/specifier.

When changing product the designer/specifier should perform a comprehensive design verification in compliance with AS 5216 [1] to be based on the European Technical Assessment (ETA) of the replaced product and the replacement to verify that the capacities and the intended-use of the replacement product in the specified condition remain satisfactory.

6. References

- [1] Standards Australia, AS 5216: Design of post-installed and cast-in fastenings in concrete, SAI Global, Sydney, 2018.



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