



**AEFAC – SS 03**

## **DEFORMATION-CONTROLLED EXPANSION FASTENERS**

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# SAMPLE SPECIFICATION: TORQUE-CONTROLLED EXPANSION FASTENERS

## 1. Scope

This sample specification provides guidance to help develop an accurate and complete specification for deformation-controlled expansion (“drop-in”) anchors 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 setting tools so that the installer adopts the correct installation practice.
- Failure of an anchor may cause severe injury, economic loss and in some circumstances, loss of life.

## 3. Minimum information to be specified

The following information is recommended for inclusion in the specification. Always refer to manufacturer’s installation instructions for a complete list of items to be included in the specification.

<b>Anchor name</b>	<b>Name</b>	
	<b>Part number</b>	
	<b>Diameter and length (mm)</b>	(E.g. M12 x 50mm)
	<b>Finish / coating</b>	(E.g. Galvanised / Class 4)
<b>Drill hole</b>	<b>Diameter (mm)</b>	(E.g. 15mm)
	<b>Depth (mm)</b>	(E.g. 55mm)
<b>Setting tool</b>	<b>Name</b>	
	<b>Size</b>	(E.g. ½" x 50mm)
<b>Tightening torque (N.m)</b>	<b>If applicable</b>	

## 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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