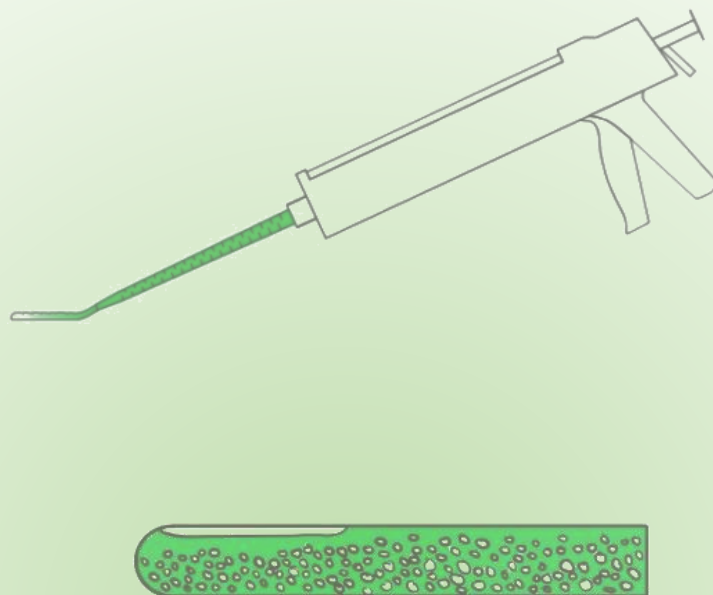


# SAMPLE SPECIFICATION



**AEFAC – SS 01**

# **CHEMICAL FASTENERS**

Ver. 1.1  
January 2020

# SAMPLE SPECIFICATION: CHEMICAL FASTENERS

## 1. Scope

This sample specification lists the minimum information that should be included on a specification for chemical fasteners. The information provided is a guide only and should not be considered a suitable alternative to the manufacturer's installation instructions.

## 2. Importance of correct specification

- Chemical fasteners are sensitive to poor installation methods.
- Incorrect installation such as poor hole cleaning, may reduce fastener performance.
- 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 result in severe injury, economic loss and in some cases, 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.

Name of Adhesive		
<b>Anchor rod</b>	Diameter & length (mm)	<i>(E.g. M12x160)</i>
	Finish/Coating	<i>(E.g. Galvanised / Class 4)</i>
	Strength Grade	<i>(E.g. Class 5.8)</i>
	Depth of embedment (mm)	<i>(E.g. 110mm)</i>
	Part number	
<b>Drill hole</b>	Diameter (mm)	
	Depth (mm)	
<b>Tightening torque (N.m)</b>	If applicable	
<b>Hole drilling Method</b>		

## **4. Installation**

The fastener shall be installed according to Manufacturer's installation instructions (MII). The setting tool, cleaning accessories (blow-out pump and cleaning brushes etc.) shall be used as recommended by the manufacturer. The adhesive needs to be cured for the time as recommended by the manufacturer before application of any load. Curing time varies with the temperature at the time of installation.

## **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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