



**AEFAC – SS 06**

## **ANCHOR CHANNEL**

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# SAMPLE SPECIFICATION: ANCHOR CHANNEL

## 1. Scope

This sample specification provides guidance to help develop an accurate and complete specification for anchor channels 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.

Design and qualification requirements for anchor channels are specified in AS 5216:2018 – Design of post-installed and cast-in fastenings in concrete [1].

## 2. Importance of correct specification

- Installation of incorrect products may prevent the anchorage point 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 connection may cause severe injury, economic loss and in some circumstances, loss of life.
- Anchor Channels and Channel bolts function as a system, the mixed use of anchor channels and channel bolts from different systems can cause a failure of the system.

## 3. Minimum information to be specified

The anchor channel 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.

<b>Anchor Channel</b>	Manufacturer:		Length:	
	Profile designation/ part number:		Finish (material):	
	Width $b_{ch}$ :	All 3 are function of the Profile	Number of anchors:	
	Height $h_{ch}$ :		Smooth or toothed:	
	Total height (channel + anchor) :			
<b>Channel bolt</b>	Manufacturer:		Material finish:	
	Part number:		Material grade:	
	Thread diameter:		Smooth or toothed:	
	Length:		Tightening torque:	
	Quantity required:			
<b>Concrete</b>	Minimum compressive strength:			

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## **4. Installation**

The anchor shall be installed according to manufacturer's instructions. The setting tools (including sockets 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 anchor is proposed. An alternate anchor 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 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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