

34.1 GENERAL INFORMATION

PERFORMANCE RELATED	MATERIAL SPECIFICATION	INSTALLATION RELATED

Product

ChemSet™ Injection 101 PLUS is a medium duty, peroxide initiated injection anchor.

Benefits, Advantages and Features

Fast installation:

- Load in 50 min. (at 20°C).

Versatile:

- Suitable for anchoring into pre-manufactured masonry units.

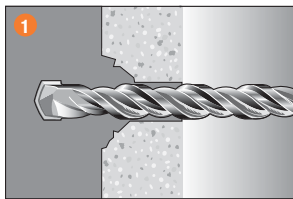
Australian Made



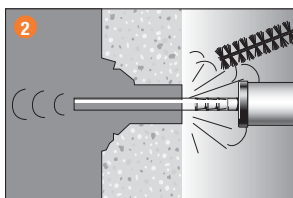
Principal Applications into Brick and Block

- Installing wall mounted signs, handrails, and gates

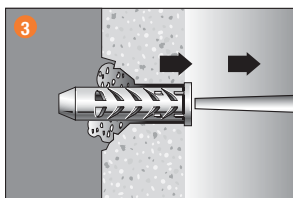
Installation



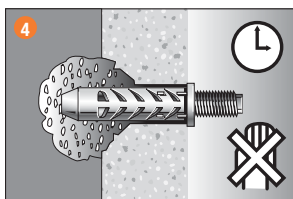
1. Drill recommended diameter and depth hole.



2. **Important:** Clean dust and debris from hole with stiff wire or nylon brush and blower in the following sequence: blow x 4, brush x 3, blow x 4, brush x 3, blow x 4.



3. Insert mixing nozzle into sleeve or sieve. Fill to 3/4 the sleeve/ sieve depth slowly, ensuring no air pockets form. Insert **Ramset™ ChemSet™ Anchor Stud** to bottom of hole while turning.



4. ChemSet™ Injection 101 Plus to cure as per setting times. Attach fixture.

Installation temperature limits:

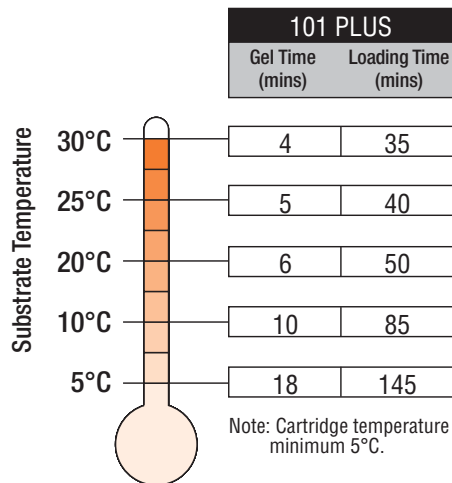
- Substrate: 0°C to 40°C.
- Adhesive: 5°C to 40°C.

Load should not be applied to anchor until the chemical has sufficiently cured as specified in the following diagrams.

Service temperature limits:

-40°C to 80°C.

Setting Times



**Installation and Working Load Limit performance details:
ChemSet™ Injection 101 PLUS and ChemSet™ Anchor Studs**

Anchor size, d _a (mm)	Substrate	Sleeve/Sieve Type	Installation details				Working Load Limit (kN)	
			Drilled hole diameter, d _h (mm)	Fixture hole diameter, d _f (mm)	Anchor effective depth, h (mm)	Tightening torque, T _r (Nm)	Solid Brick	
							Shear, V _a	Tension, N _a
M8	Solid Clay Brick	-	10	10	80	10	4.4	1.4
M10			12	12	85	20	4.8	1.5
M12			14	15	85	40	5.2	1.6
M16			18	19	85	95	5.2	1.7

Note: Use specified hole size for solid brick. Use of larger hole and/or sleeve/sieve will result in lower capacities.

Anchor size, d _a (mm)	Substrate	Installation details					Working Load Limit (kN)					
		Drilled hole diameter, d _h (mm)		Fixture hole diameter, d _f (mm)	Anchor effective depth, h (mm)	Tightening torque, T _r (Nm)	3 Hole Brick		10 Hole Brick		Concrete Block	
		Nylon Sleeve	S/S Sieve				Shear, V _a	Tension, N _a	Shear, V _a	Tension, N _a	Shear, V _a	Tension, N _a
M8	3 Hole Brick, 10 Hole Brick or Concrete Block	12	12	10	64	10	3.8	2.5	3.0	1.0	1.8	1.8
M10		14	16	12		20	4.6	2.5	4.6	1.0	2.0	1.8
M12		16	16	15		40	5.0	2.5	5.0	1.0	2.0	1.8
M16		-	22	19		95	5.0	2.5	5.0	1.0	2.0	1.8

For lower strength studs, refer to table for reduced steel capacity on page 236.

34.2 DESCRIPTION AND PART NUMBERS

Description	Cartridge Size	Part No.
ChemSet™ 101 PLUS Cartridge	380 ml	C101C
ChemSet™ 101 PLUS Jumbo Cartridge	750 ml	C101J
ChemSet™ 101 PLUS Kit	2 x 380 ml	ISKP
Mixer Nozzle for 101 PLUS	-	ISNP

Effective depth, h (mm)

Preferred h = h_n otherwise,

$$h = L_e - t$$

t = total thickness of material(s) being fastened.

To suit ChemSet™ Anchor Stud	Nylon Sleeve	Stainless Steel Sieve
M8	ISS08	ISM10
M10	ISS10	ISM12
M12	ISS12	ISM12
M16	-	ISM16

34.3 ENGINEERING PROPERTIES

Refer to "Engineering Properties" for ChemSet™ Anchor Studs on page 43.