

# ChemSet<sup>™</sup>101 PLUS

## CHEMICAL INJECTION ANCHORING

# **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**





# and Block

· Installing wall mounted signs, handrails, and gates

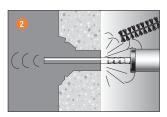
#### Installation



1. Drill recommended diameter and depth hole.

## **Recommended Installation Temperatures**

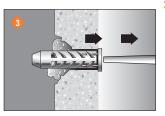
	Wiinimum	waximum
Substrate	5°C	40°C
Adhesive	5°C	40°C



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

# **Service Temperature Limits**

-40°C to 80°C



3. Insert mixing nozzle into sleeve or sieve. Dispense adhesive to waste until slowly, ensuring no air pockets form. Insert Ramset ChemSet Anchor Stud to bottom of hole while turning.

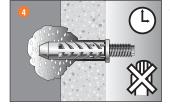
# colour is uniform light grey (2-3 trigger pulls ) Fill to 3/4 the sleeve/sieve depth

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

Attach fixture.



Temperature of base material	Cartridge Temperature	Gel Time	Curing time in dry and wet concrete		
5°C	5°C	18 min	145 min		
10°C	10°C	10 min	85 min		
20°C 20°C		6 min	50 min		
25°C	25°C	5 min	40 min		
+30°C	+30°C	5 min	35 min		
Note: Cartridge temperature minimum +5°C					





# **ChemSet**<sup>™</sup> 101 PLUS

# **CHEMICAL INJECTION ANCHORING**

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

				Working Load Limit (kN)				
Anchor size, d <sub>b</sub> (mm)	Substrate	Sleeve/Sieve Type			Tightening torque, T,	Solid Brick		
()		.,,,,,	d <sub>h</sub> (mm)	d <sub>f</sub> (mm)	h (mm)	(Nm)	Shear, Va	Tension, Na
M8			10	10	80	10	4.4	1.4
M10	Calid Clay Driek	-	12	12	85	20	4.8	1.5
M12	Solid Clay Brick -		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.

Ab		Installation details				Working Load Limit (kN)						
Anchor size, d <sub>h</sub>	Substrate	Drilled hole dia		Fixture hole	Anchor	Tightening	3 Hole Brick		10 Hole Brick		Concrete Block	
(mm)		(mm)		diameter, effective depth,		torque, T <sub>r</sub>	Shear, Va	Tension, Na	Shear, Va	Tension, Na	Shear, Va	Tension, Na
(11111)		Nylon Sleeve	S/S Sieve	d <sub>f</sub> (mm)	h (mm)	(Nm)	Sileai, va	rension, Na	Sileai, va	rension, Na	Sileal, va	rension, Na
M8	3 Hole Brick,	12	12	10		10	3.8	2.5	3.0	1.0	1.8	1.8
M10	10 Hole Brick	14	16	12	64	20	4.6	2.5	4.6	1.0	2.0	1.8
M12	or Concrete	16	16	15	04	40	5.0	2.5	5.0	1.0	2.0	1.8
M16	Block	-	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 322.

# **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	-
M10	ISS10	-
M12	ISS12	ISM12
M16	-	ISM16

# **ENGINEERING PROPERTIES**

Refer to "Engineering Properties" for ChemSet Anchor Studs.