

GENUINE 

# ReidBar™ Grout Sleeve System

Installation Guide



The engineered,  
full strength  
splicing solution  
for reinforcing bars.



# ReidBar™ Grout Sleeve System

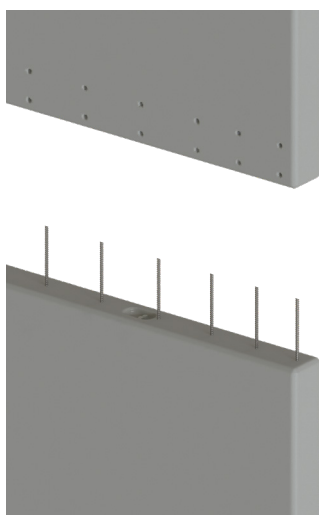
**The ReidBar Grout Sleeve System provides a full strength splicing solution for reinforcing bars allowing reinforcing continuity between load-bearing precast concrete elements.**

The ReidBar Grout Sleeve System is engineered for the task, and unlike crossbar ducts, require no modification, reducing production and installation costs, and eliminating error. The system is supported by technical assistance at every stage, face-face-training, procedures and checklists that take the guesswork out of construction. Backed by third-party

accredited quality, the ReidBar Grout Sleeve system can be depended on, whether you're manufacturing precast concrete panels or installing on-site. Being independently certified, they enable designers to create efficient construction joints between precast concrete elements with confidence.

## Applications

Panel to panel  
connections



Panel to foundation /  
slab connections



BRANZ-CM-1024

### CodeMark's Scheme Mark of Conformity

The ReidBar Grout Sleeve system holds a CodeMark certificate (Certificate Number BRANZ-CM-1024). This provides a deemed to comply assessment for the system, to the NZBC, when used within the scope of CodeMark Certificate Number BRANZ-CM-1024.

# Features & Benefits



## Meets the specification.

Tested to meet the clauses of the New Zealand Building Code (as stated on CodeMark Certificate Number BRANZ-CM-1024).



## Supports quality workmanship

Engineered for the task and fully supported with face-to-face training, procedures and checklists that take the guesswork out of construction.



## Keeps the team safe

through reducing on-site hazards caused by long protruding starter bars, allowing shorter embedment depths.



## Technical support at every stage.

Reid products are backed with technical support from design to construction.



## Minimises panel congestion and thickness

when compared to drossbach ducts, which must be fully confined (Source: SESOC Interim Design Guidance (Version No. 10-September 2019).



## Saves on project costs

by utilising less materials and less labour time on site compared to drossbach ducts. Save on lapping and confinement requirements, assembly labour, grout volume and grouting labour.



## Simplifies panel transport & storage

by eliminating or reducing starter bar lengths.



## Products that won't let you down.

ReidBar™ system components are quality assured and won't let you down when you're on site and timeframes are tight.

ReidBar™  
Grout Sleeve



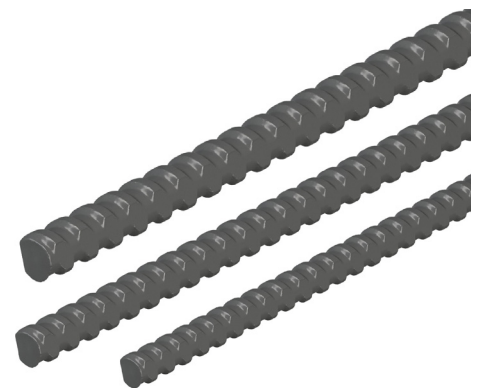
# System Components

ReidBar™ is a 500N grade reinforcing bar complying with AS/NZS 4671:2001 that can be cut at any point along its length and screwed into the following threaded components.

## ReidBar™ Starters

ReidBar™ starter bar systems have been developed to provide full strength and positive connections between precast concrete panels, floor slabs and insitu suspended floors.

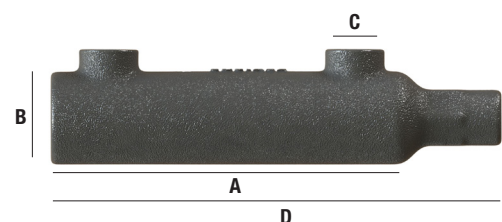
Part No.	Description	Length (mm)	Pack Qty
RB12SB	Starter bar for RB12 fittings	540	20
RBA16SB	Starter bar for RBA16 fittings	660	20
RBA20SB	Starter bar for RBA20 fittings	850	10
RB25SB	Starter bar for RB25 fittings	1150	10
RB32SB	Starter bar for RB32 fittings	1450	5



Cut to length available and subject to leadtimes

## ReidBar™ Grout Sleeves

ReidBar Grout Sleeves offer a precast panel on panel splicing solution which meets the performance requirements of NZS3101:2006 Amendment 2. Whilst made of Cast SG Iron, ReidBar Grout Sleeves also had been tested to the performance requirements of NZS3101:2006 Amendment 3. Refer to the documents section for more information.



Part No.	Suits ReidBar	(A) Max Internal Embedment Depth (mm)	(B) Body ID (mm)	(C) Internal Grout Hole Diam (mm)	(D) Tube Length (mm)
RB12GS	RB12	150	28-40	21	200
RBA16GS	RB16	190	32	21	240
RB20GS	RB20	224	40	21	290
RB25GS	RB25	274	48	21	360
RB32GS	RB32	320	55	26	445

Refer to the Reid Precast Solutions Product Guide for related products. Available from [www.reids.co.nz](http://www.reids.co.nz)

# System Components

## Ramset™ Epcon™ C8 XTREM™

Part No.	Description	Pack Qty
C8-450	Epcon™ C8 Xtrem™ 450ml	12

Chemical anchoring epoxy that delivers high ultimate performance in extreme applications, including seismic.



## Polyethylene Closed Cell Foam Backer Rod

Part No.	Colour	Diameter (mm)	Length (m)
PFR0D06	White	6	250
PFR0D10	White	10	250
PFR0D13	White	13	50
PFR0D15	White	15	50
PFR0D20	White	20	50
PFR0D25	White	25	50
PFR0D30	White	30	50
PFR0D40	White	40	2
PFR0D50	White	50	2



## Cementitious Grout

Part No.	Description	Pack Qty
RPGHS	POZIFLO™ Grout HS	20kg Bag

A dual expansion, high strength precision cementitious grout with high early strength and high flow properties.






# Compliance Details

## Product applicability

The products applicable to the compliance statement are defined in Table 1.

Table 1: Product applicability

System	ReidBar Grout Sleeve System			
System Components	ReidBar™ Grout Sleeve	ReidBar™	EPCON™ C8 XTREM™	POZIFLO™ Grout HS
Part Numbers	 <p>RB12GS, RBA16GS, RB20GS, RB25GS, RB32GS,</p>	 <p>RB12, RB16, RB20, RB25 RB32</p>	 <p>C8-450</p>	 <p>RPGHS</p>
Conditions	Compliance and CodeMark certification applies to the system in its entirety. Substitution, omission and/or modification of components is not permitted and will void the compliance statement and CodeMark certification of the system.			



# Compliance Details

## Compliance statement

The system defined in Table 1 complies with the New Zealand Building Code clauses identified in Table 2.

**Table 2: Compliance details New Zealand Building Code**

NZBC Clause	Criteria	Compliance Status
B1.3.1	'Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.'	Compliant – refer to CodeMark certificate of Conformity*
B1.3.2	'Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.'	
B1.3.3 (a), (b), (d), (e), (f), (g), (h), (j), (q)	'Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including: (a) Self weight, (b) Imposed gravity loads arising from use . . . (d) Earth pressure, (e) Water and other liquids, (f) Earthquake, (g) Snow, (h) Wind . . . (j) Impact . . . (q) Time dependent effects including creep and shrinkage.'	
B1.3.4	'Due allowance shall be made for: (a) The consequences of failure, (b) The intended use of the building, (c) Effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur, (d) Variation in the properties of materials and the characteristics of the site, and (e) Accuracy limitations inherent in the methods used to predict the stability of buildings.'	
B2.3.1 (a)	'Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or: (a) The life of the building, being not less than 50 years, if (i) Those building elements . . . Provide structural stability to the building, or (ii) Those building elements are difficult to access or replace, or (iii) Failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building.'	
F2.3.1	'The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.'	



\*The ReidBar Grout Sleeve system holds a CodeMark certificate (Certificate Number BRANZ-CM-1024). This provides a deemed to comply assessment for the system, to the NZBC, when used within the scope of CodeMark Certificate Number BRANZ-CM-1024. The ReidBar Grout Sleeve system CodeMark certificate is available on the JAS-ANZ website, located by entering the certificate number.  
<https://www.jas-anz.org/our-directory/codemark-certified-organisations>

# General Requirements

## Please read the contents of this publication in its entirety before commencing your project.

Ramsetreid™ can provide technical assistance and training. Contact ramsetreid using the details provided at the end of this publication.

## System Requirements

The ReidBar™ Grout Sleeves system is an engineered system comprising of ReidBar™ Grout Sleeves, Ramset Epcon™ C8, Ramset POZIFLO™ Grout HS and ReidBar™.

Substitution, omission and/or modification of components is not permitted by ramsetreid and will void the CodeMark certification of the system.

Substitution, omission and/or modification of components will affect the performance of the system and thus the structural performance of the building.

Deviation from the technical literature, (eg. including but not limited to prescribed installation methods, operating conditions, measures, shelf life, storage and safety precautions) will affect the performance of the system, the structural performance of the building and/or the safety of workers.

Products shall only be used as in applications described in ramsetreid publications at or below the published capacities.

## Manufacture, installation and grouting competence

The professional manufacture, installation and grouting of precast panels is integral to the structural performance of the building.

Precast panel manufacture, installation and grouting shall only be performed by competent workers.

For advice and training on the products referred to in this publication, please contact ramsetreid using the details provided at the end of this publication.

## Workplace Health and Safety

The Precast industry has been identified as high risk construction work by government authorities. Ensure your team is familiar with current legislation and compliance codes for your jurisdiction.

### Whilst on site:

- Observe the workplace health and safety procedures of the site.
- Ensure that workers are not exposed to workplace health and safety risks whilst accessing the work area and conducting the work, through the provision of adequate training, procedures and PPE to perform the work safely in accordance with WHS advice for your jurisdiction.
- Allocate workers to the job who are adequately trained to carry out the task safely.

## Scope

The scope of this publication is limited to the following processes specifically in relation to the correct application of the ReidBar Grout Sleeve system, namely:

- **Grout sleeve assembly**
- **Grout sleeve installation**
- **On-site installation** (excluding craneage and propping procedures)

## Reference Material

Please refer to the following supporting literature available from [www.reids.co.nz](http://www.reids.co.nz).

- **ReidBar™ Grout Sleeve System Specification guide**
- **Ramset™ Epcon™ C8 Xtrem™ TDS & MSDS**
- **Ramset™ POZIFLO™ Grout HS TDS & MSDS**
- **Reid™ Precast Solutions Product Guide**

Ramsetreid™ reserves the right to amend this and referenced documentation from time to time.

Please ensure current literature is being referred to by accessing the website.



# Panel Manufacturing Preparation

## During the panel design process:

- ☐ Work with the structural engineer to refine the panel design and installation method
- ☐ If the intended panel design or components deviate from the structural engineering specification, then approval shall be sought from the structural engineer.
- ☐ Allocate workers to the job who are deemed competent to carry out the task safely, to the structural engineering specifications.

## Preparing for panel manufacture:

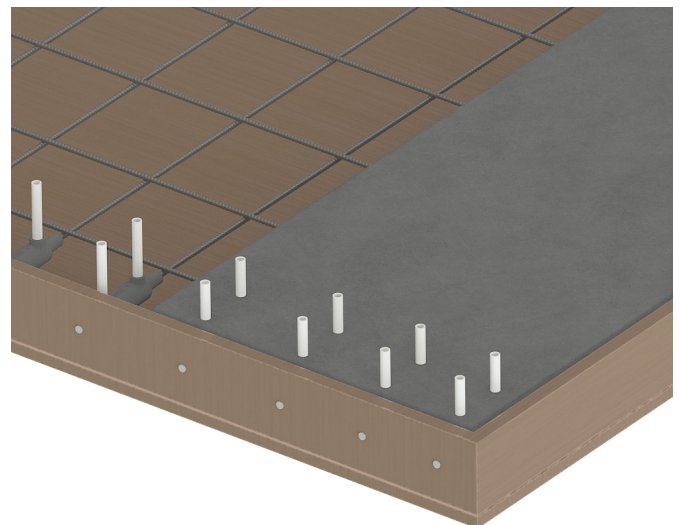
- ☐ Ensure workers are given the required tools, equipment and materials to carry out the work efficiently and accurately to the structural engineering specifications.
- ☐ Ensure tools and equipment are in correct working order.
- ☐ Ensure materials are to the correct specifications and are within their use by date (where applicable).
- ☐ Ensure workers are familiar with the requirements of the job and are provided with necessary documentation to do the job accurately to the structural engineering specifications.

## Whilst manufacturing the panels:

- ☐ Ensure workers are given access to the required tools, equipment and materials to carry out the work efficiently and accurately to the structural engineering specifications.
- ☐ Ensure workers do not deviate from the structural engineering specifications. If manufacturing constraints force a deviation, stop and seek approval from the structural engineer before proceeding.

## Tools and equipment:

- ☐ Appropriate Safety Equipment (PPE)
- ☐ Checklists (see end of this publication)
- ☐ Genuine ReidBar™
- ☐ ReidBar™ Grout Sleeves
- ☐ Ramset™ Epcon™ C8 XTREM™
- ☐ Relevant technical datasheets, manuals and MSDS.



# Assembly Procedure

## Please note:

- ⚠ This process is to be completed outside of the casting bed to ensure no Epcon™ C8 XTREM™ drips into the bed during assembly.
- ⚠ Ensure the following process is completed 24 hours prior to the pour to allow for curing time.
- ⚠ Ensure the following process is not conducted at temperatures below 5°C.

### Grout Sleeve Filler Requirements

RB12GS	RBA16GS	RB20GS	RB25GS	RB32GS
x3 pumps required	x4 pumps required	x4 pumps required	x6 pumps required	x8 pumps required



**1**



Once marked remove the Grout Sleeve.

**2**



**Epcon™ C8 XTREM™**  
Apply in a uniform line along the ReidBar from the end of the bar up to the mark. Ensure the specified number of pumps.

**3**



**Assemble the ReidBar™ with the Grout Sleeve**  
Assemble until the ReidBar is fully screwed into the Grout Sleeve.

**4**



**Disassemble the ReidBar from the Grout Sleeve**  
Distribute the Epcon™ C8 XTREM™ along the ReidBar™  
Evenly distribute the Epcon™ C8 XTREM™ along the ReidBar and place excess inside the thread of the Grout Sleeve.

**5**



**Assemble the ReidBar™ with the Grout Sleeve**  
Assemble until the ReidBar is fully screwed into the Grout Sleeve.

⚠ Allow the assembly to cure for 24 hours before proceeding.

Ensure the appropriate PPE is worn when working with Ramset products. Refer to [www.ramset.co.nz](http://www.ramset.co.nz) for Epcon™ C8 XTREM™ MSDS Sheet.

# Installation Procedure

## Installing ReidBar™ Grout Sleeve

### STEP 1 Create templates

A template is the most accurate way to ensure that ReidBar™ Grout Sleeves and their starter bars are located at the correct positions for repetitive casting. Templates can be easily fabricated using steel or timber. Timber templates tend to be more popular amongst precast concrete manufacturers given that most already have fully operational timber workshops.

Measure and mark on the template the centre locations of the ReidBar™ Grout Sleeves and their starter bars. For the starter bar template (and if timber is used), drill holes of sufficient diameter to pass the bars. When the construction of the concrete elements involve two or more parties, copies of the templates shall be provided to these parties so that all parties are working of the same measurement benchmark.

#### Step 1 Checklist:

- ☐ Create templates as required and check if the marked & drilled hole locations of the ReidBar™ Grout Sleeves and their continuation bars are accurate.
- ☐ Duplicate these templates and provide them to other parties as required.

### STEP 2 Set the Grout Sleeve Assembly into the Formwork

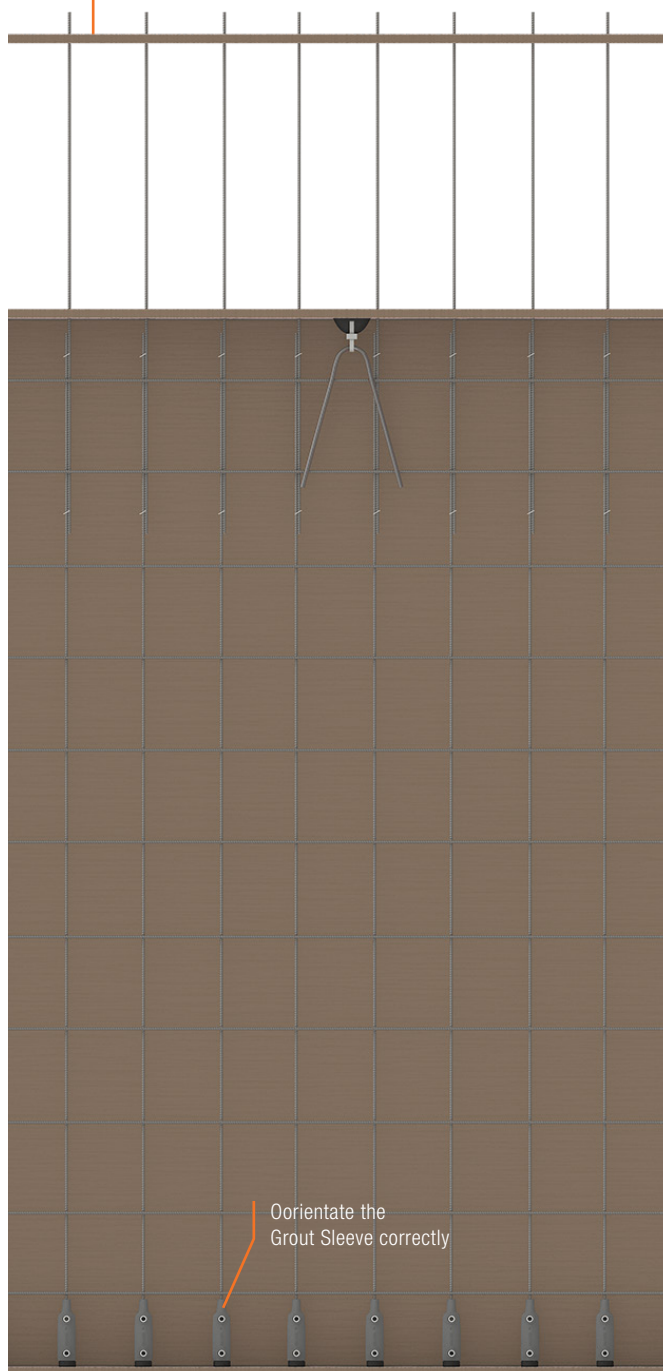
⚠ Ensure the Epcon™ C8 XTREM™ is allowed to cure for 24 hours before setting the assembly into the formwork.

Determine the surface (or side) that the grout ports are expected to come out from, and orientate the Grout Sleeve correctly such that the grout ports are facing the right direction. This is typically towards the near face of precast elements or on multiple sides of precast columns.

#### Step 2 Checklist:

- ☐ Check if the ReidBar™ has been installed correctly onto the Grout Sleeve.
- ☐ Check if the ports of the ReidBar™ Grout Sleeves are facing the right direction.

Example of timber template for ReidBar™ Grout Sleeve locations



# Installation Procedure

## Installing ReidBar™ Grout Sleeve

### STEP 3 Install Grout Sleeve installation hardware to the formwork.

#### Using Timber Discs

(ideal if penetrations through the formwork are undesirable)

Find the marked centre locations of the ReidBar™ Grout Sleeves. Cut timber discs to suit the inside diameter of the corresponding ReidBar™ Grout Sleeve size. A circular drop saw is commonly used to create the timber discs.

Drill an appropriately sized hole and insert a screw through the middle of the timber disc. Tap the screw onto the marked locations and screw so that the timber disc is fixed firmly onto the formwork.

Afterwards, it is recommended to use two extra screws on the right and left sides of the timber disc to further fix it onto position.

#### Step 3 Checklist:

- ☐ Check if the set-up hardware is correctly placed and is firmly fixed to the formwork.



Timber discs screwed onto timber formwork



# Installation Procedure

## Installing ReidBar™ Grout Sleeve

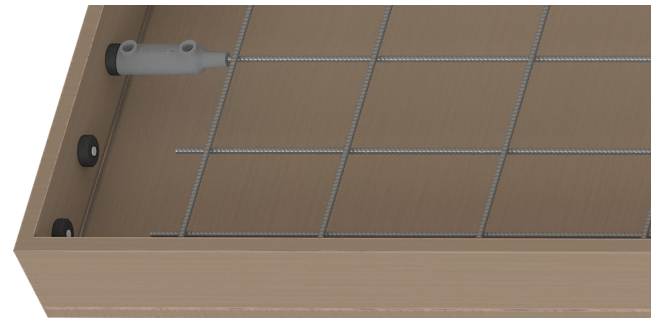
### STEP 4 Install Grout Sleeves onto the installation hardware

Install the ReidBar™ Grout Sleeve assemblies onto the installation hardware. Install bar chairs underneath the Grout Sleeve continuation bar in close proximity to the Grout Sleeve.

Seal the bottom of the Grout Sleeve using a duct tape or similar means, to ensure that there is no concrete slurry seeping into the Grout Sleeve.

To further support the Grout Sleeve and maintain its rigidity upon reinforcement and concrete placing, more bar chairs may be required to support larger-sized ReidBar™ Grout Sleeve assemblies.

Install the timber or steel template to the top side of the precast panel to properly locate the protruding ReidBar™ Grout Sleeve starter bars. Ensure that the protruding starter bars are straight and perpendicular to the formwork.



#### Step 4 Checklist:

- ☐ Check if the Grout Sleeves are stable, perpendicular to the formwork and are sufficiently supported
- ☐ Check if the bottom of the Grout Sleeves are sufficiently sealed to stop concrete slurry ingress into the Grout Sleeves
- ☐ Check if the protruding starter bars are straight and perpendicular to the formwork

### STEP 5 Prepare and connect port tubes to the grout ports

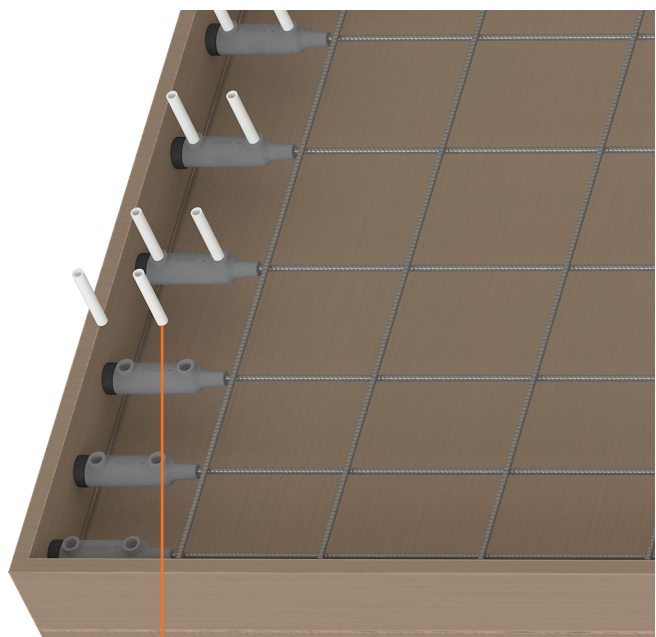
Prepare the port tubes such that they are neither too long nor too short, and then connect them to the ReidBar™ Grout Sleeves.

PF Rods, PVC tubes or plumbing hose can be used as port tubes. Connect port tubes into grout ports, and tape them to ensure that no concrete slurry seeps into the Grout Sleeve.

Label the port tubes where they come out of the precast unit – particularly when there is more than one layer of Grout Sleeves, such as in precast columns. This is to ensure that the grouting contractor onsite is aware of which are the inlet and outlet ports.

#### Step 5 Checklist:

- ☐ Prepare port tubes that are neither too long nor too short and connect them to the grout ports
- ☐ Label the port tubes so that it is clear which are the inlet and outlet ports
- ☐ Check if the grout ports are sufficiently sealed

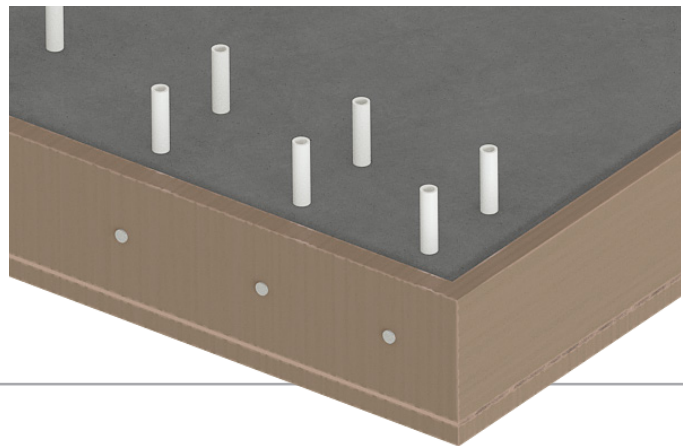


ReidBar™ Grout Sleeves with PF Rod port tubes

# Installation Procedure

## Installing ReidBar™ Grout Sleeve

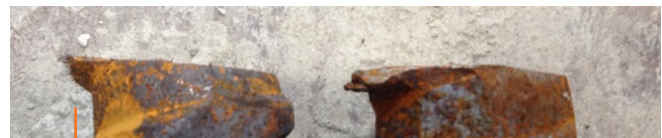
**STEP 6** Take good care during concrete placement and vibration to ensure that the Grout Sleeves are not displaced during the process.



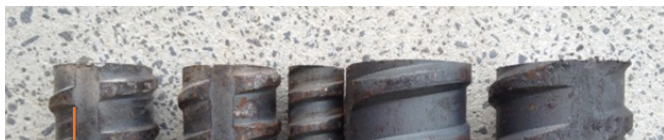
## Useful Install tips

### For accurate installation:

It is recommended to use ReidBar™ that are cut using band/abrasive saw, instead of those that are hydraulically cropped.



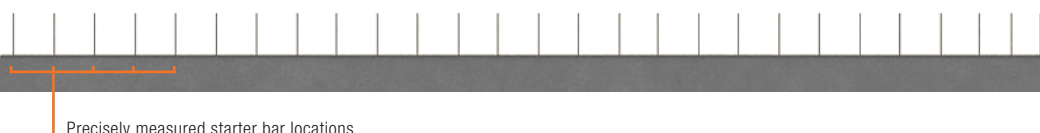
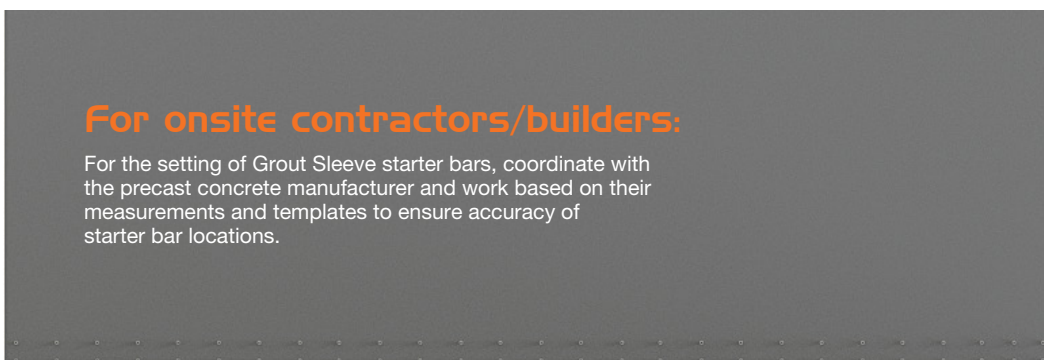
Hydraulically cropped ReidBar™



ReidBar™ properly cut using band/abrasive saw

### For onsite contractors/builders:

For the setting of Grout Sleeve starter bars, coordinate with the precast concrete manufacturer and work based on their measurements and templates to ensure accuracy of starter bar locations.



Precisely measured starter bar locations



# On-site Installation Procedure

## During the installation planning process:

- ☐ Work with the structural engineer to refine the installation method
- Verify the installation method against the structural engineering specification to confirm:**
  - ☐ If shims and foam tape can be used and their location and size
  - ☐ Dry packing location and maximum coverage
  - ☐ Grout minimum coverage within the panel joint
- ☐ If the intended installation method deviates from the structural engineering specification, then approval shall be sought from the structural engineer.
- ☐ Allocate workers to the job who are deemed competent to carry out the task safely, to the structural engineering specifications.

## Preparing for site:

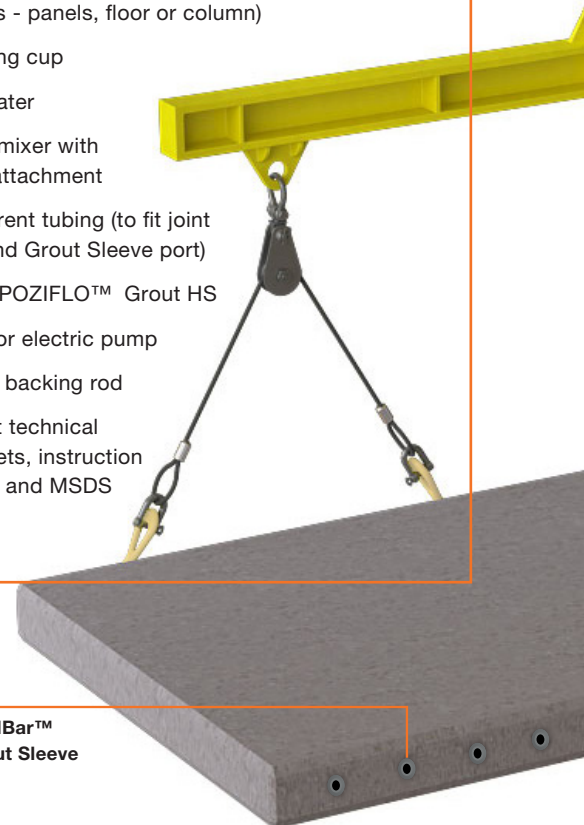
- ☐ Ensure workers are given the required tools, equipment and materials to carry out the work efficiently and accurately to the structural engineering specification.
- ☐ Ensure tools and equipment are in correct working order.
- ☐ Ensure materials are to the correct specifications and are within their use by date (where applicable).
- ☐ Ensure workers are familiar with the requirements of the job and are provided with necessary documentation to do the job accurately to the structural engineering specification.

## Whilst on-site:

- ☐ Ensure workers are given access to the required tools, equipment and materials to carry out the work efficiently and accurately to the structural engineering specification.
- ☐ Ensure workers do not deviate from the intended installation method and structural engineering specification. If site constraints force a deviation, stop and seek approval from the structural engineer before proceeding.

## Tools and equipment:

- ☐ Appropriate Safety Equipment (PPE)
- ☐ Checklists (see end of this publication)
- ☐ Measuring tape
- ☐ Foam tape (as required)
- ☐ Reid Shims
- ☐ Approved dry packing grout (with 28 day compressive strength 10MPa in excess of the connected elements - panels, floor or column)
- ☐ Measuring cup
- ☐ Clean water
- ☐ Electric mixer with paddle attachment
- ☐ Transparent tubing (to fit joint cavity and Grout Sleeve port)
- ☐ Ramset POZIFLO™ Grout HS
- ☐ Manual or electric pump
- ☐ Foam or backing rod
- ☐ Relevant technical datasheets, instruction manuals and MSDS



ReidBar™  
Grout Sleeve

# Installation Procedure

## On-site Installation

### STEP 1 Inspect & prepare starter bars



Verify to the structural engineering specification:

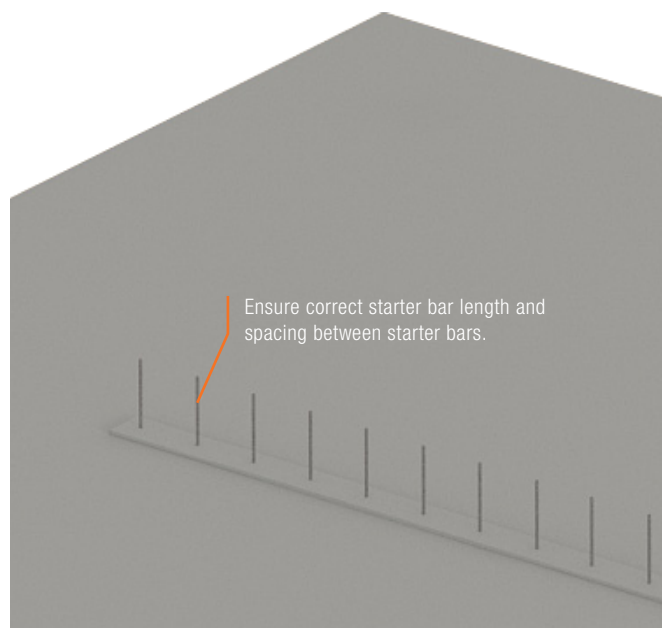
- ☐ The number of starter bars
- ☐ Starter bar size
- ☐ Starter bar position

Perform a visual inspection of the starter bars:


- ☐ Check for damage
- ☐ Check the ends show no signs of deformation and the bars are straight (if not, this will prevent the panel from sliding down)

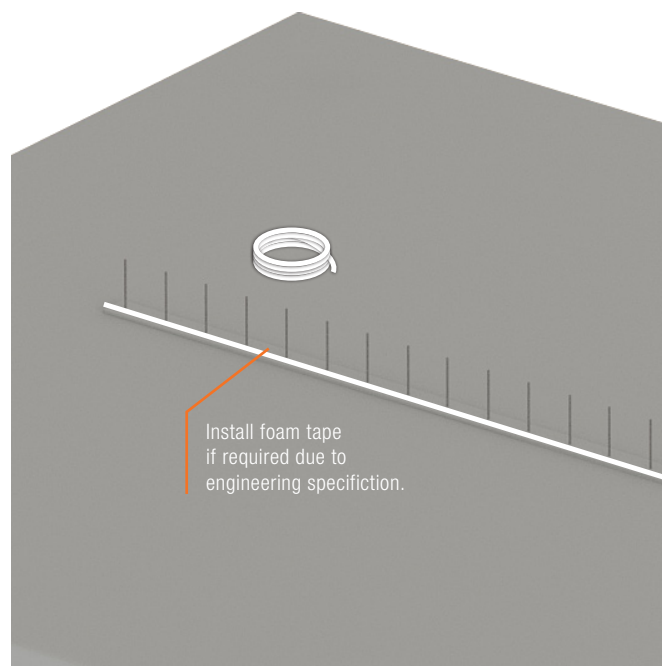
Measure the length of the starter bars:

- ☐ Ensure the length of the bar (minus the packer height) matches the stated embedment depth (see ReidBar Grout Sleeve Dimensions in the References section)
-  Starter bars may be slightly chamfered to aid in insertion.
-  Do not place caps on the end of starter bars as an insertion aid.




### STEP 2 Install foam tape to base (as required)

- ☐ Verify the placement of the foam tape to the structural engineering specification. Only use foam tape where approved by the structural engineering specification as incorrect placement may affect the structural performance of the building.
-  Where foam tape is positioned on the only accessible faces, ensure transparent plastic inlet/outlet tubes are positioned within the foam tape, at each end of the panel and at intermediate points, to allow for adequate joint flooding and visual inspection.



### STEP 3 Position the panel over the base (via crane)

-  Never work under a moving panel.

# Installation Procedure

## On-site Installation

### STEP 4 Lower the panel and whilst supported inspect the grout sleeve cavity

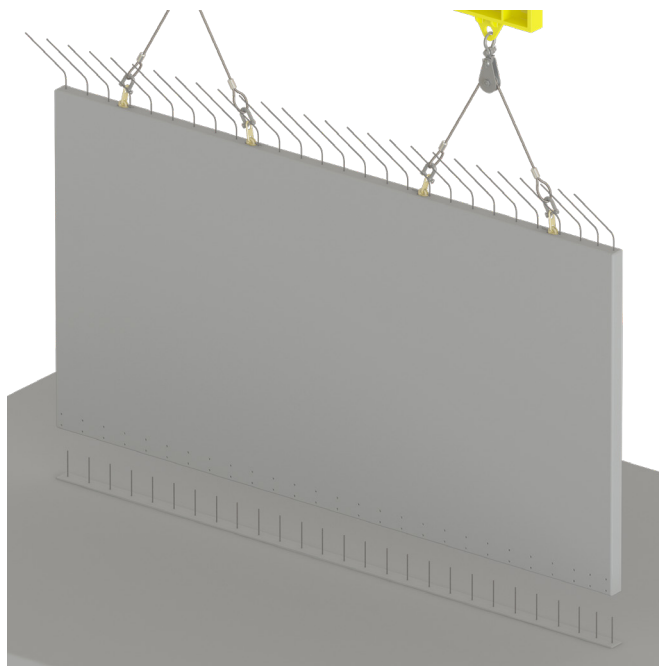
Inspect the ReidBar Grout Sleeve cavities:

- ☐ Verify the number of cavities.
- ☐ Check that all cavities are free of obstructions
- ☒ Verify the cavity depths match the ReidBar Grout Sleeve dimensional starter bar length measured in Step 1

### STEP 5 Lower the panel over the starter bars

This may require raising and lowering the panel several times if the starter bars are getting caught or are misaligned. Adjust where required.

- ☒ Never work under an unsupported panel.



### STEP 6 Level the panel with Reid Shims (if required)

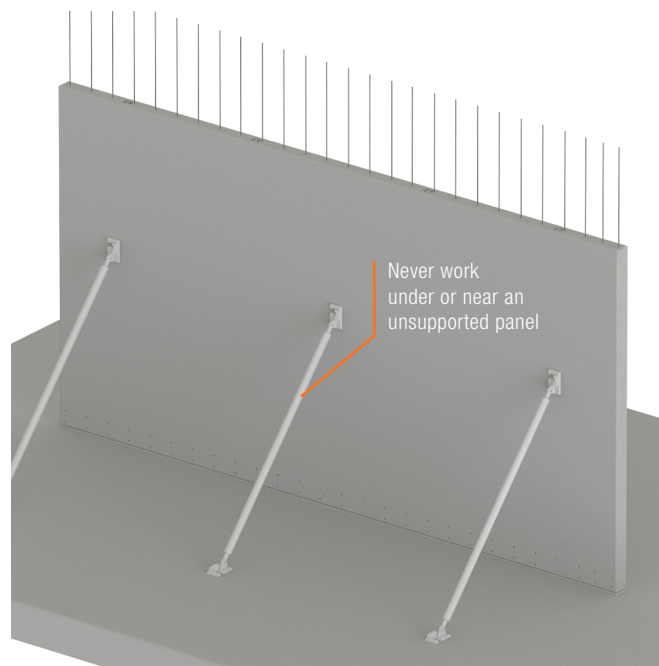
Verify the placement of the Reid Shims to the structural engineering specification.



- ☐ This may require raising and lowering the panel several times to achieve. Adjust shims heights where required.
- ☒ Never work under a moving or unsupported panel.
- ☒ Only use rated plastic shims (Reid Shims). Never use metal shims.
- ☒ Only use shims where approved by the structural engineering specification. Adhere to locations specified.

### STEP 7 After the panel is fully lowered onto the concrete base, prop the panel to secure

- ☒ Never work under or near an unsupported panel



# Installation Procedure

## On-site Installation

### STEP 8 Where dry packing is specified, dry pack the joint cavity with an approved dry packing grout.

Prepare the surfaces according to the manufacturer's instructions.

Mix grout to dry pack consistency according to the manufacturer's instructions.

- ☐ Verify the correct water volume is used.
- ☐ Verify the consistency of the grout is homogenous.
- ☒ Ensure all instructions are complied to (refer to the manufacturer's instructions).

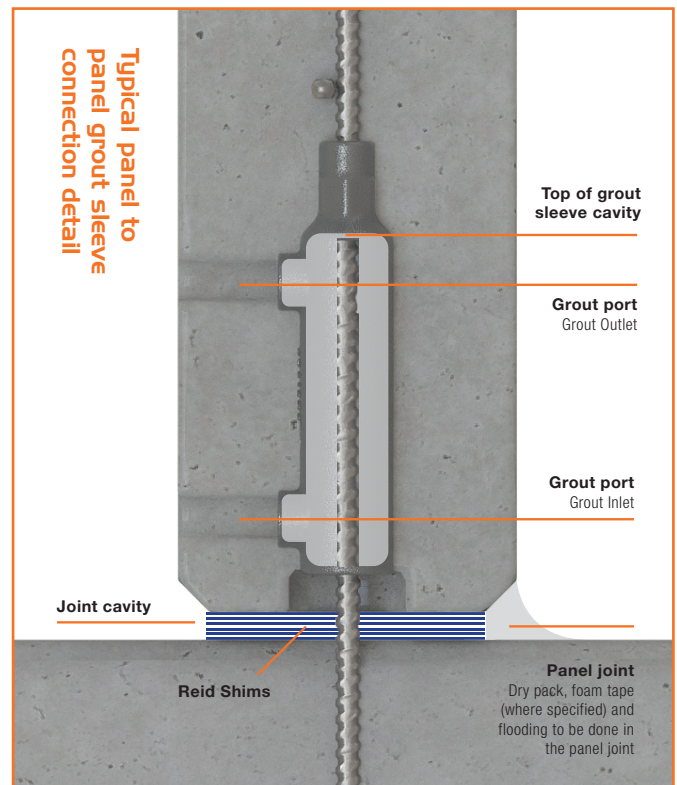
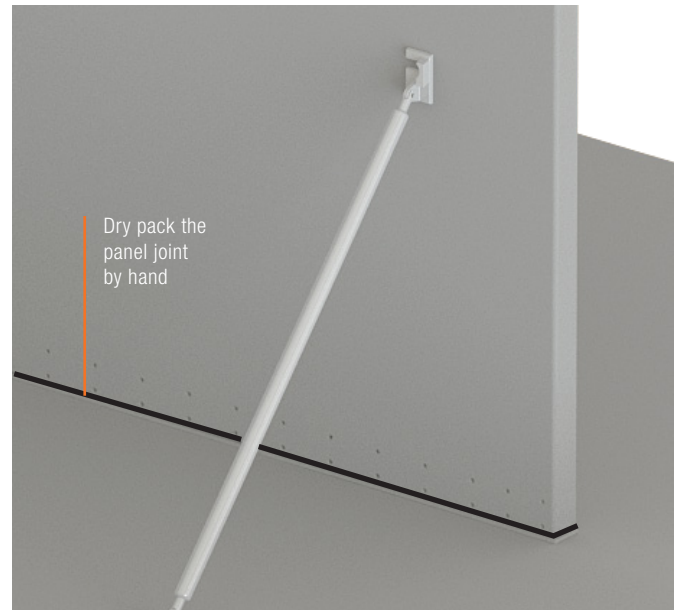
Dry pack the panel joint by hand in the timeframe shown on the instructions as indicated by the structural engineering detailing.

Ensure transparent plastic inlet/outlet tubes are positioned within the dry packed joint, at each end of the panel and at intermediate points, to allow for adequate joint flooding and visual inspection.

- ☒ Ensure the exposed ends of the inlet and outlet tubes are long enough to create a head of grout just above the panel joint to ensure each grout sleeve is sealed at the flooding stage.
- ☐ Verify the position of the dry packing to the structural engineering specification.
- ☐ Verify the grout inlet and outlet tubes are present and clear of grout.
- ☐ Note the time of completion to ensure recommended setting times are observed (refer to the manufacturer's instructions).

Allow the dry packed grout to set according to the manufacturer's instructions before proceeding.

- ☒ This step is intended to seal the joint cavity and provide support to the pressure exerted by grouting and may be done in conjunction with the use of foam tape (where specified).



# Installation Procedure

## On-site Installation

### STEP 9 Flood the joint cavity with Ramset™ POZIFLO™ Grout HS

- ☐ Verify setting time for the dry packing (where specified) has been met.

Mix Ramset POZIFLO™ Grout HS to flowable consistency according to the manufacturer's instructions.

- ☐ Verify the correct water volume is used.
- ☐ Verify the consistency of the grout is homogenous.

- ☒ Ensure all instructions are complied to (refer to the manufacturer's instructions).

Working from one end of the panel to the other, and with a pump, flood the panel joint in the timeframe shown on the manufacturer's instructions. Flood until a head of grout is observed above the level of the panel joint for each inlet/outlet tube positioned within the dry packed joint.

Working from one side of the panel to the other, plug the tubes.

- ☐ Verify the grout inlet and outlet tubes are filled above the level of the panel joint.
- ☐ Note the time and temperature at completion to ensure recommended setting times are observed (refer to the manufacturer's instructions).

Allow the flooded grout to set according to the manufacturer's instructions before proceeding. For temperatures below 5 degrees Celcius, allow for longer setting times (refer to the manufacturer's instructions).

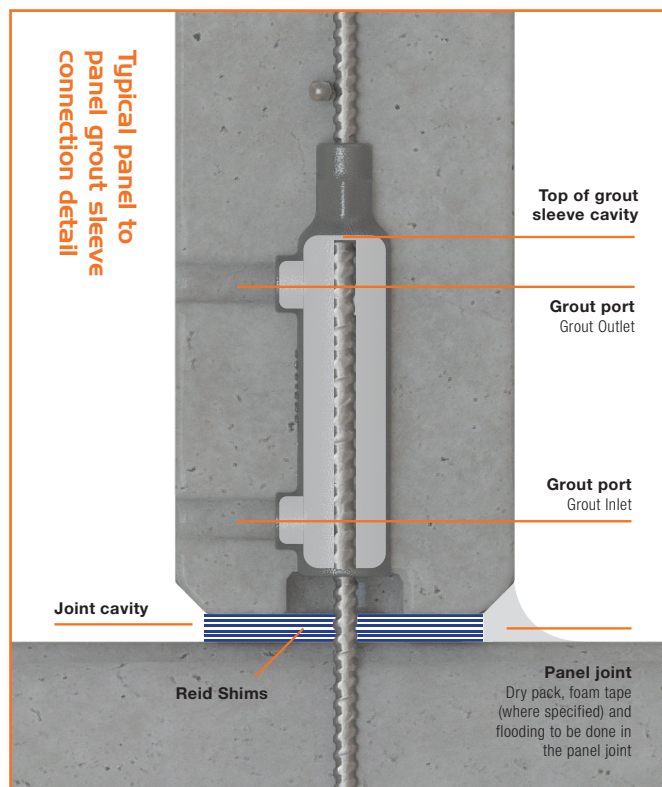
- ☒ This step is intended to seal the joint cavity and also seal the base of each grout sleeve so they can be individually grouted.
- ☒ Working from one side of the panel to the other ensures that voids are not formed during the flooding process.
- ☒ Flooding may be done with either a manual or electric pump.
- ☒ Foam or backing rod can be used to plug tubes.

### STEP 10 Prepare the Grout Sleeves for grouting

- ☐ Verify setting time for the flooded grout has been met.

Attach a transparent plastic tube to each of the upper grout sleeve ports.

- ☒ Ensure the end of the transparent tubes are pointing upwards and are long enough to create a head of grout just above the level of the top of the grout sleeve cavity to ensure each grout sleeve is fully filled with grout.





# Installation Procedure

## On-site Installation

### STEP II Grout the grout sleeve cavity with Ramset™ POZIFLO™ Grout HS

Mix Ramset POZIFLO™ Grout HS to flowable consistency according to the manufacturer's instructions.

- ☐ Verify the correct water volume is used.
- ☐ Verify the consistency of the grout is homogenous.
- ⚠ Ensure all instructions are complied to (refer to the manufacturer's instructions).
- ⚠ Use the entire contents of the Ramset POZIFLO™ Grout HS bag each time grout is required.

Working from one side of the panel, grout each grout sleeve individually via the grout inlet (lower port) within the timeframe shown on the manufacturer's instructions.

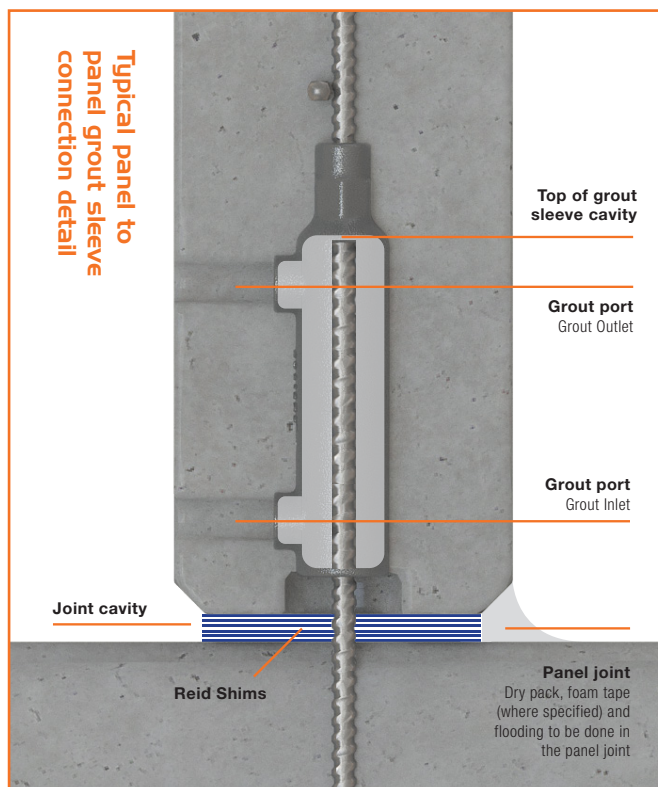
Grout until a head of grout is observed above the level of the top of the grout sleeve cavity in each outlet. Plug the grout inlet immediately after removing the pump, then plug the grout outlet tube.

Continue across the panel until all grout sleeves are grouted.

- ☐ Verify the grout inlet and outlet tubes are filled above the level of the top of the grout sleeve cavity.
- ☐ Note the time and temperature at completion to ensure recommended setting times are observed (refer to the manufacturer's instructions).

Allow the flooded grout to set according to the manufacturer's instructions. For temperatures below 5 degrees Celcius, allow for longer setting times (refer to the manufacturer's instructions).

- ⚠ Working from the grout inlet (the lower Grout Sleeve port) ensures that voids are not formed during the grouting process.
- ⚠ Foam or backing rod can be used to plug the ports.
- ⚠ During this step the grout path to some or all Grout Sleeves may not have been sealed if under-flooded previously, thus multiple grouting of some/all grout sleeves may be required. If this is the case work from one side of the panel to the other to avoid the formation of voids.
- ⚠ Grouting may be done with either a manual or electric pump.
- ⚠ Once fully set, plugs and tubes can be removed and the surfaces treated as required.





## Grout Sleeve

# Installation Checklist

This checklist is to be used where the ReidBar™ Grout Sleeve System is being cast into a precast concrete panel. It is to be used in conjunction with the ReidBar™ Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

## A.1 Project Details

Project

Project address

Building/Level

## A.2 Panel Identification

	Panel 1	Panel 2	Panel 3
Panel name/number/ID			

## A.3 Panel Manufacturer Details

	Panel 1	Panel 2	Panel 3
Manufacture date			
Project Lead			
Quality Inspector			

## A.4 Pre-Pour Inspection

	Panel 1		Panel 2		Panel 3	
Continuation bar template check to structural engineering drawings	OK	Not OK	OK	Not OK	OK	Not OK
Position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of continuation bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout Sleeve Assembly check	OK	Not OK	OK	Not OK	OK	Not OK
Reidbar installed per the instructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assembly cured for a minimum 24 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout Sleeve Installation check	OK	Not OK	OK	Not OK	OK	Not OK
Setup hardware positioned correctly & firmly fixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout sleeve grout ports oriented correctly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout sleeves are stable & supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout sleeves are perpendicular to the formwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Base of the grout sleeves are sealed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Starter bars are straight and perpendicular to the formwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Port tubes inserted into each grout port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout ports are labelled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout ports are sealed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued >

## Grout Sleeve

# Installation Checklist

This checklist is to be used where the ReidBar™ Grout Sleeve System is being cast into a precast concrete panel. It is to be used in conjunction with the ReidBar™ Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### A.5 Pre-Storage Inspection

	Panel 1		Panel 2		Panel 3	
	OK	Not OK	OK	Not OK	OK	Not OK
Grout sleeve cavities free of obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout ports free of obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### A.6 Grout Sleeve Installation Sign-Off

All items have been marked by the Project Lead and checked by the Quality Inspector

	Panel 1	Panel 2	Panel 3
Project Lead (sign)			
Quality Inspector (sign)			
Approval date			

Any deviations have been accepted by the Structural Engineer for the project

Deviation

	Panel 1	Panel 2	Panel 3
Structural Engineer			
Approval date			

## Notes

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## Precast Concrete Panel

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### I.1 Project Details

Project

Project address

Building/Level

### I.2 Panel Identification

	Panel 1	Panel 2	Panel 3
Panel name/number/ID			

### I.3 Panel Installation Details

Panel Installation Contractor

	Panel 1	Panel 2	Panel 3
Installation date			
Lead Installer From the panel installation contractor			
Quality Inspector			

### I.4 Starter Bar Inspection

	Panel 1		Panel 2		Panel 3	
<b>Number of starter bars [a]</b>						
	OK	Not OK	OK	Not OK	OK	Not OK
Number of starter bars check structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ReidBar size (circle)	RB 12 16 20 25 32		RB 12 16 20 25 32		RB 12 16 20 25 32	
	↓ ↓ ↓ ↓ ↓		↓ ↓ ↓ ↓ ↓		↓ ↓ ↓ ↓ ↓	
ReidBar length (mm) (circle) minus packer height [b]	150 / 190 / 224 / 274 / 320		150 / 190 / 224 / 274 / 320		150 / 190 / 224 / 274 / 320	
	OK	Not OK	OK	Not OK	OK	Not OK
ReidBar size check to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ReidBar length check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Starter bar checks</b>	OK	Not OK	OK	Not OK	OK	Not OK
Position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No bar damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bar straightness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bar end condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foam tape position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued &gt;

## Precast Concrete Panel

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### I.5 Panel Grout Sleeve Cavity Inspection

	Panel 1		Panel 2		Panel 3	
	OK	Not OK	OK	Not OK	OK	Not OK
Number of cavities compare to [a]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cavity depth (mm) copy from [b]	150 / 190 / 224 / 274 / 320		150 / 190 / 224 / 274 / 320		150 / 190 / 224 / 274 / 320	
	OK	Not OK	OK	Not OK	OK	Not OK
Cavity depth check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cavities free of obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### I.6 ReidBar Shim Position

	Panel 1		Panel 2		Panel 3	
	OK	Not OK	OK	Not OK	OK	Not OK
Shim position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reid Plastic Shims used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### I.7 Panel Installation Sign-Off

All items have been marked by the Project Lead and checked by the Quality Inspector

	Panel 1	Panel 2	Panel 3
Lead Installer (sign)			
Quality Inspector (sign)			
Approval date			

Any deviations have been accepted by the Structural Engineer for the project

Deviation

	Panel 1	Panel 2	Panel 3
Structural Engineer			
Approval date			

Proceed to Grouting (refer to ReidBar Grout Sleeves System Installation Instructions and Checklist)

## Dry Packing

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

## 2.1 Project Details

Project

Project address

Building/Level

## 2.2 Panel Identification

	Panel 1	Panel 2	Panel 3
Panel name/number/ID			

## 2.3 Dry Packing Details

Grouting Contractor

	Panel 1	Panel 2	Panel 3
Grouting date			
Lead Grouter From the grouting contractor			
Quality Inspector			

## 2.4 Start Up Checks

Equipment check	OK		Not OK			
Mixing bucket and paddle clean	<input type="checkbox"/>		<input type="checkbox"/>			
Mixing drill in good condition	<input type="checkbox"/>		<input type="checkbox"/>			
	Panel 1		Panel 2		Panel 3	
Panel Setup	OK	Not OK	OK	Not OK	OK	Not OK
Shim position under panel to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastic (not metal) shims used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foam tape position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued >

## Notes

## Dry Packing

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

## 2.5 Grout Mixing

Grout used?	Expiry date check		Confirm correct water volume by Quality Inspector		Confirm flowable homogenous mix by Quality Inspector	
	OK	Not OK	OK	Not OK	OK	Not OK
Bag 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 2.6 Dry Packing Inspection

	Panel 1		Panel 2		Panel 3	
Dry packing checks	OK	Not OK	OK	Not OK	OK	Not OK
Dry packing position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout inlet tube present & clear of grout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grout outlet tube present & clear of grout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 2.7 Dry Packing Sign-Off

All items have been marked by the Project Lead and checked by the Quality Inspector

	Panel 1	Panel 2	Panel 3
Lead Grouter (sign)			
Time of completion			
Quality Inspector (sign)			
Approval date			

Any deviations have been accepted by the Structural Engineer for the project

Deviation

	Panel 1	Panel 2	Panel 3
Structural Engineer			
Approval date			

Proceed to Flooding (refer to ReidBar Grout Sleeves System Installation Instructions and Checklist)



## Panel Flooding

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### 3.1 Project Details

Project

Project address

Building/Level

### 3.2 Panel Identification

	Panel 1	Panel 2	Panel 3
Panel name/number/ID			

### 3.3 Flooding Details

Grouting Contractor

	Panel 1	Panel 2	Panel 3
Grouting date			
Lead Grouter From the grouting contractor			
Quality Inspector			

### 3.4 Start Up Checks

Dry Packing	OK	Not OK
Setting time met	<input type="checkbox"/>	<input type="checkbox"/>

### 3.5 Grout Mixing

	Panel 1		Panel 2		Panel 3	
Bag 1	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 2	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mixby quality inspector"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 3	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued >

## Panel Flooding

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### 3.5 Grout Mixing

	Panel 1		Panel 2		Panel 3	
Bag 4	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 5	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 6	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 3.6 Flooding Inspection

	Panel 1		Panel 2		Panel 3	
Flooding checks	OK	Not OK	OK	Not OK	OK	Not OK
Dry packing position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Head of grout observed from grout outlets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 3.7 Flooding Sign-Off

All items have been marked by the Project Lead and checked by the Quality Inspector

	Panel 1	Panel 2	Panel 3
Lead Grouter (sign)			
Time of completion			
Quality Inspector (sign)			
Approval date			

Any deviations have been accepted by the Structural Engineer for the project

Deviation

	Panel 1	Panel 2	Panel 3
Structural Engineer			
Approval date			

Proceed to Grouting (refer to ReidBar Grout Sleeves System Installation Instructions and Checklist)

## Grouting

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

## 4.1 Project Details

Project

Project address

Building/Level

## 4.2 Panel Identification

	Panel 1	Panel 2	Panel 3
Panel name/number/ID			

## 4.3 Grouting Details

Grouting Contractor

	Panel 1	Panel 2	Panel 3
Grouting date			
Lead Grouter From the grouting contractor			
Quality Inspector			

## 4.4 Start Up Checks

	OK	Not OK
Flooding		
Setting time met	<input type="checkbox"/>	<input type="checkbox"/>

## 4.5 Grout Mixing

	Panel 1		Panel 2		Panel 3	
	OK	Not OK	OK	Not OK	OK	Not OK
<b>Bag 1</b>						
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Bag 2</b>						
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mixby quality inspector"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Bag 3</b>						
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued >

## Grouting

# Installation Checklist

This checklist is to be used where the ReidBar Grout Sleeve System has been cast into a precast concrete panel. It is to be used in conjunction with the ReidBar Grout Sleeves System Installation Instructions. Items marked 'Not OK' are to be rectified by the contractor or referred to the structural engineer for the project for approval to proceed. Retain the completed document as a record of the installation. The completed document may be requested from the Structural Engineer at any time.

### 4.5 Grout Mixing

	Panel 1		Panel 2		Panel 3	
Bag 4	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 5	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bag 6	OK	Not OK	OK	Not OK	OK	Not OK
POZIFLO™ Grout HS used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm correct water volume by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm flowable homogenous mix by quality inspector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 4.6 Grouting Inspection

	Panel 1		Panel 2		Panel 3	
Grouting checks	OK	Not OK	OK	Not OK	OK	Not OK
Dry packing position to structural engineering drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Head of grout observed from grout outlets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of grout sleeves grouted (write number)						

### 4.7 Grouting Sign-Off

All items have been marked by the Project Lead and checked by the Quality Inspector

	Panel 1	Panel 2	Panel 3
Lead Grouter (sign)			
Time of completion			
Quality Inspector (sign)			
Approval date			

Any deviations have been accepted by the Structural Engineer for the project

Deviation

	Panel 1	Panel 2	Panel 3
Structural Engineer			
Approval date			

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## customer service

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