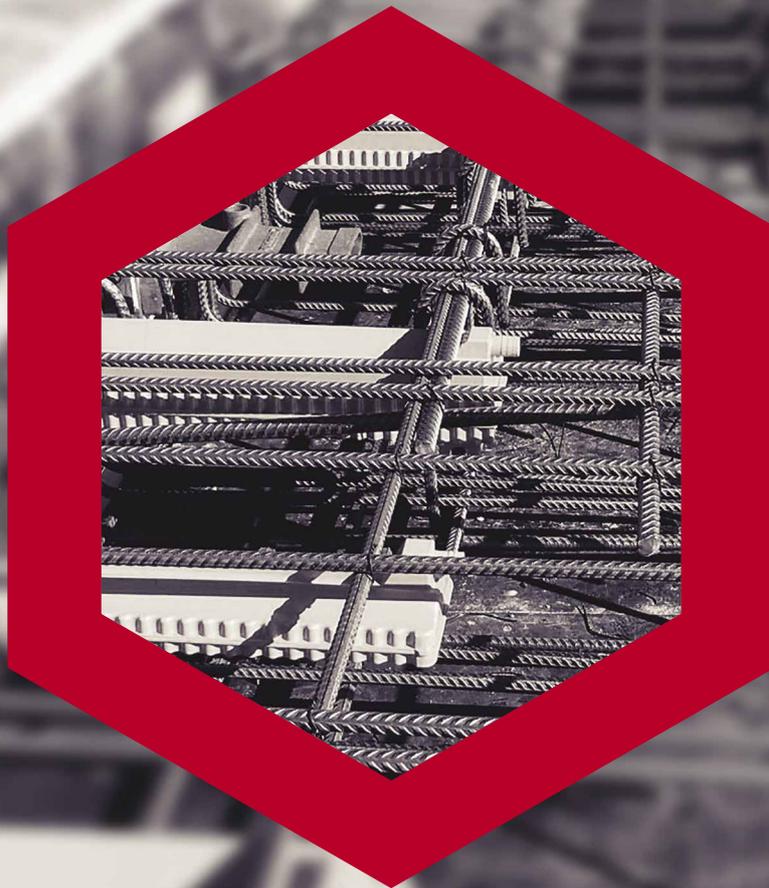


# SURELOK™ TECHNICAL SPECIFICATIONS AND INSTALLATION GUIDE

The complete engineered solution  
for Temporary Movement Joints



**Sure Lok™**



PRODUCTS

# SureLok™



COMPLIANT TO THE NATIONAL CONSTRUCTION  
CODE OF AUSTRALIA



ENSURES A LOW COST, RELIABLE AND PRACTICAL  
SOLUTION FOR TMJS



ALLOWS BACK-PROPPING TO BE REMOVED WHILE  
SLABS SHRINK



ENSURES A FULLY SEALED AND GROUTED SYSTEM  
FOR PERMANENT LOCKING



PROVIDES VERTICAL SHEAR, HORIZONTAL SHEAR  
AND TENSILE CAPACITY



PROVIDES MINIMUM 2 HOURS FIRE RESISTANCE



PROVIDES A CORROSION PROTECTED SOLUTION

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# SureLok™

# Sealed and Locked

- **SureLok™ is a revolutionary engineered solution to Temporary Movement Joints (TMJ).**
- **SureLok™ has been specifically designed to eliminate issues that current TMJ market options present.**

SureLok™ is the result of years of experience, investment, research, development and testing. It has been developed for the post-tensioning, construction and mining industries with a patent pending in Australia and internationally.

SureLok™ is revolutionary as it offers a range of safety, cost, design and performance benefits. It is a world class leader in the industry as it is the first solution that provides bi-directional temporary movement and two-axis load transfer, all within a fully sealed component.

Temporary Movement Joints (TMJ) are the most complex joints in concrete slabs as they require temporary free movement in two horizontal directions prior to being locked tight for permanent stability and integrity of a structure. The solution required a combination of specialist areas of engineering outside of the standard field of structural engineering, using hydraulic engineering to design a movable pressure seal as well as elastomers and polymers to deliver affordability.

The SureLok™ solution engineers an intelligent void with a pressure sealed system bridging the joint whilst allowing two-way horizontal movement. When required, SureLok™

permanently locks the joint together with an approved grout mixture used for post-tensioned tendons. The intelligent void ensures the dowel retains cover for durability and fire within the sleeve across the joint without having to rely on the joint itself being sealed or grouted. Since 2011, over 12 stages of prototype development has been undertaken against rigorous design and site-performance criteria, complemented by product testing at both the University of Technology Sydney and the Western Sydney University.

SRG are extremely pleased and proud to have resolved the past long standing issues of temporary movement joint performance, whilst utilising the most appropriate constituent materials to deliver strong economic benefits for all applications.

You can now have peace of mind knowing that SureLok™ is the tested and proven solution to Temporary Movement Joints and is the answer to your TMJ needs and requirements.

The SureLok™ system now comprises two distinct ranges: one for Slab to Slab connections, and one for Slab to Wall connections, for a total of eight unique models.

## **Safety, quality, environment**

Safety, Quality and the Environment are paramount to SRG. Being a customer focused organisation with an intense desire to be the best in our field, SRG operates and complies with the requirements of the following Quality Management, Environmental Management and Occupational Health & Safety Management Systems.

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### **Occupational Health & Safety Management System**

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AS/NZS 4801:2001

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OHSAS 18001

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### **Quality Management System**

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ISO 9001:2008

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### **Environmental Management System**

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AS/NZS ISO 14001:2004

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# The SureLok™ TMJ System Encompasses 8 Products

## SureLok™ Slab to Slab

The SureLok™ Slab to Slab range encompasses two SureLok™ products. The **SureLok™ 200S** and the **SureLok™ 160S**.

The **SureLok™ 160S** was launched in 2014 as a TMJ (Temporary Movement Joint) product for Slab to Slab connections starting at a minimum slab depth of 160mm.

In 2016, SRG launched the **SureLok™ 200S** which is designed for slab depths of a minimum of 200mm and has been engineered to virtually eliminate any vertical displacement between slabs and to eliminate the need for long term back-propping.

## SureLok™ Slab to Wall

The **SureLok™ 200W**, the **SureLok™ 160W**, the **SureLok™ 200BRS** and the **SureLok™ 160BRS** are designed to provide a TMJ between a slab and wall and eliminate the requirement for pour strips.

The **SureLok™ 200W** and **SureLok™ 160W** are used on applications where the anchor can be fixed inside the formwork and secured with a nailing plate and by local reinforcement. These systems are also used in precast walls.

The **SureLok™ 200BRS** and **SureLok™ 160BRS** are used for basement applications where the walls are applied using shotcrete.

## SureLok™ Retrofit

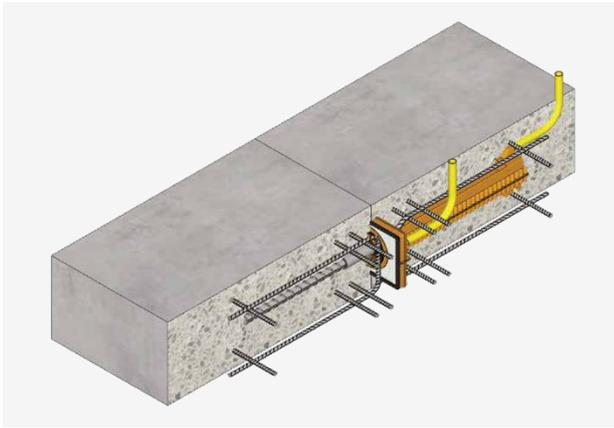
The **SureLok™ 200R** and the **SureLok™ 160R** are post fixed retrofit systems. Both products are designed to provide a TMJ between a slab to wall or slab to slab where the bars need to be epoxied into an existing structure.

### Legend:

<b>S</b>	Slab to Slab
<b>W</b>	Wall to Slab
<b>BRS</b>	Basement Retention System
<b>R</b>	Retrofit

# SureLok™ Applications

## SureLok™ SLAB TO SLAB

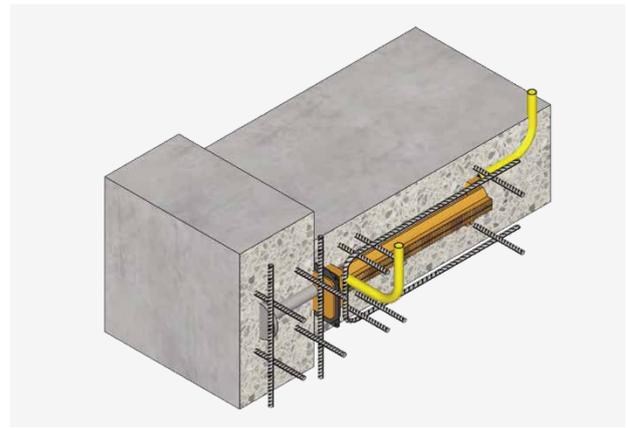


The SureLok™ Slab to Slab range includes two SureLok™ products. The **SureLok™ 200S** allows the back-propping to be removed when concrete strength achieves 32MPa, and the **SureLok™ 160S** is able to fit into slabs thinner than 200mm.

The **SureLok™ 200R** and the **SureLok™ 160R** are post fixed retrofit systems. Both products are designed to provide a TMJ between a slab to wall or slab to slab where the bars need to be epoxied into an existing structure.



## SureLok™ SLAB TO WALL



The SureLok™ Slab to Wall range encompasses four SureLok™ products. The **SureLok™ 200W**, the **SureLok™ 160W**, the **SureLok™ 200BRS** and the **SureLok™ 160BRS**. All four products are designed to provide a TMJ between a slab and wall and eliminate the requirement for pour strips.

The **SureLok™ 200W** and **SureLok™ 160W** are used in applications where the anchor can be fixed inside the formwork and secured with a nailing plate or by local reinforcement. These system are also used in precast walls.

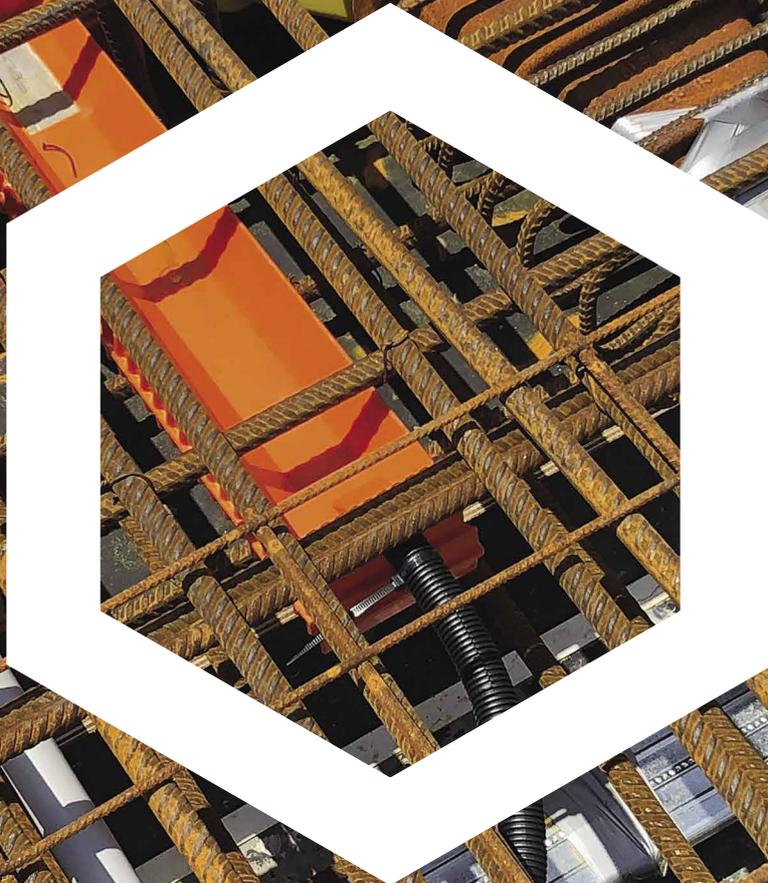
The **SureLok™ BRS** systems are used for basement applications where the walls are applied using shotcrete.

### The SureLok™ system encompasses 8 products

SureLok™	200S	160S	200W	160W	200R	160R	200BRS	160BRS
Propping can be removed prior to grouting	✓	✗	✓	✗	✓	✗	✓	✗
Slab to Slab connection	✓	✓	✗	✗	✓	✓	✗	✗
Slab to Wall connection	✗	✗	✓	✓	✓	✓	✓	✓
No pour strips	✓	✓	✓	✓	✓	✓	✓	✓
No corbels	✓	✓	✓	✓	✓	✓	✓	✓
Most economical TMJ	✓	✓	✓	✓	✓	✓	✓	✓
Simple installation	✓	✓	✓	✓	✓	✓	✓	✓
Reduced construction time	✓	✓	✓	✓	✓	✓	✓	✓
Improved job site safety	✓	✓	✓	✓	✓	✓	✓	✓
Slab thickness between 160 and 195mm	✗	✓	✗	✓	✗	✓	✗	✓
Slab thickness of 200mm and above	✓	✓	✓	✓	✓	✓	✓	✓
Suitable for existing structures	✗	✗	✗	✗	✓	✓	✗	✗



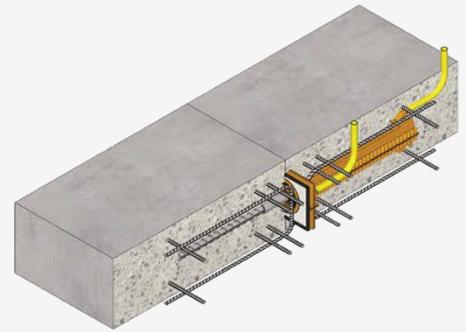
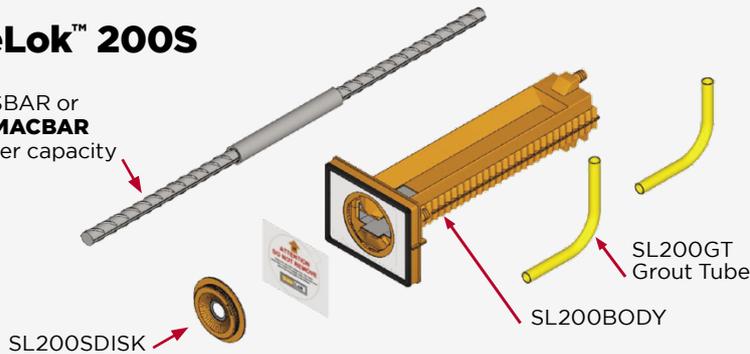
PRODUCTS



# Slab to Slab Components

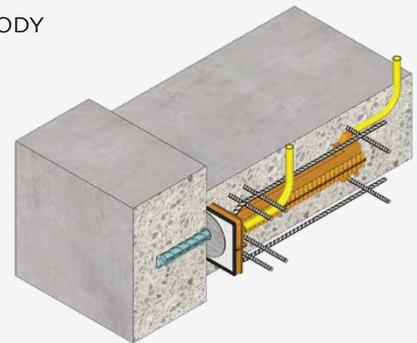
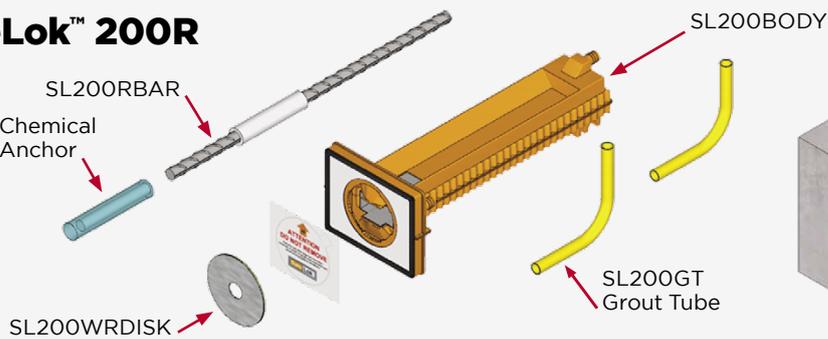
## SureLok™ 200S

SL200SBAR or  
**SL200MACBAR**  
for higher capacity

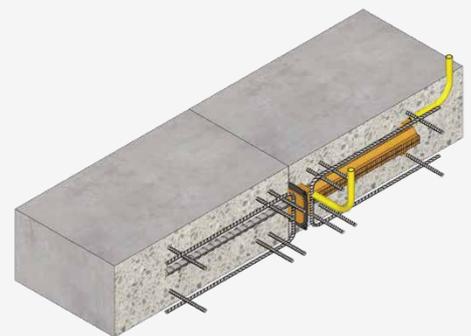
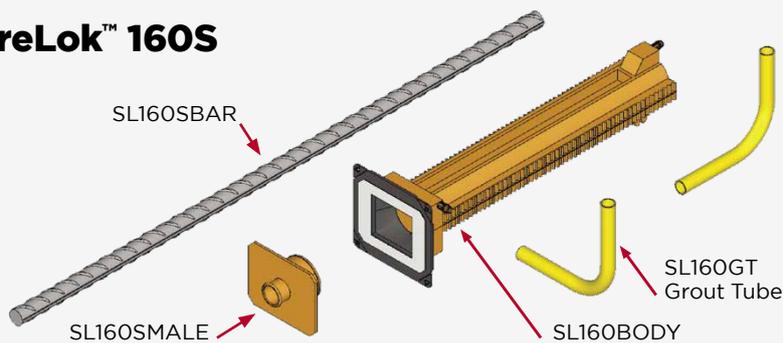


## SureLok™ 200R

SL200RBAR  
Chemical  
Anchor

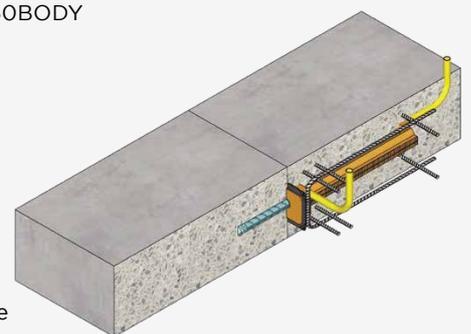
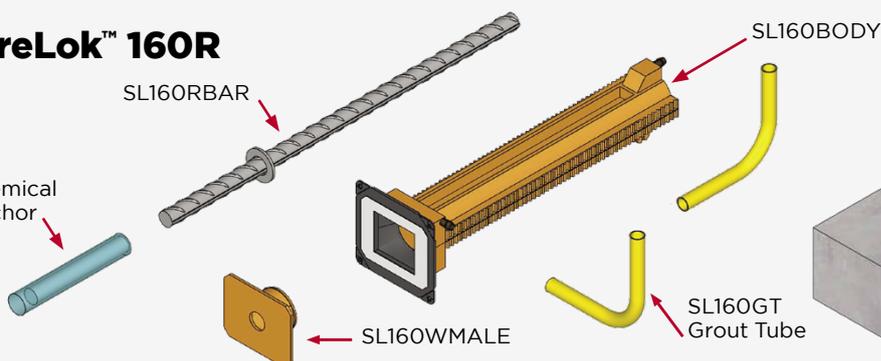


## SureLok™ 160S



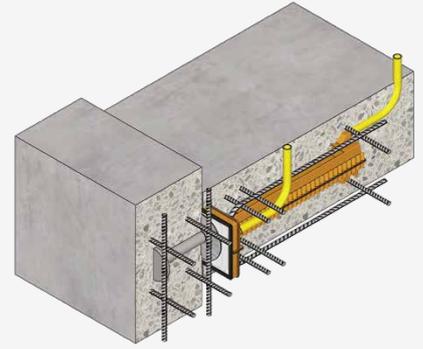
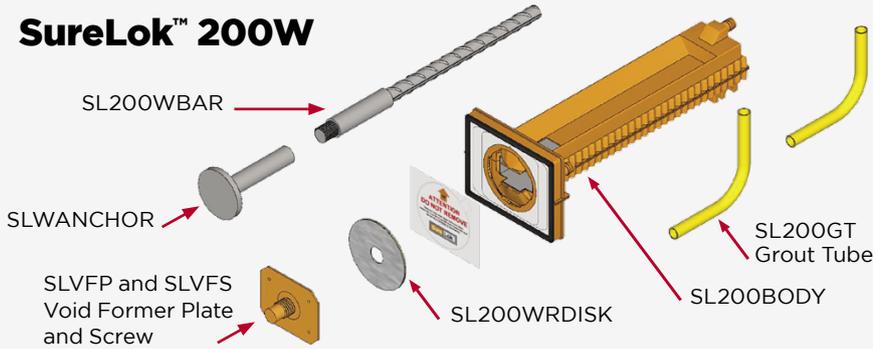
## SureLok™ 160R

Chemical  
Anchor

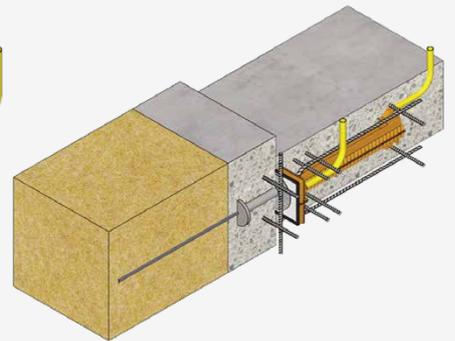
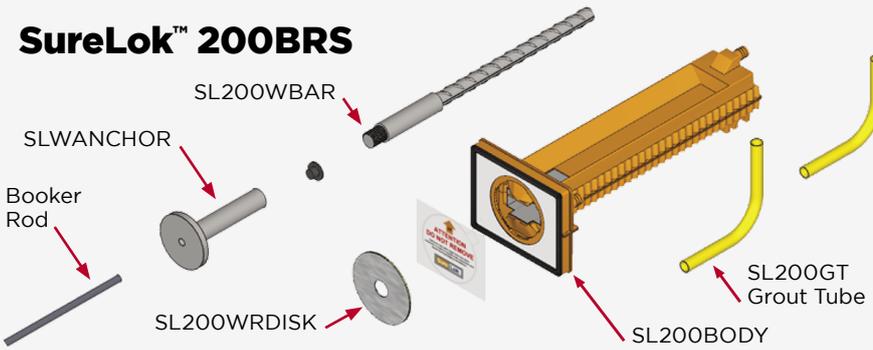


# Slab to Wall Components

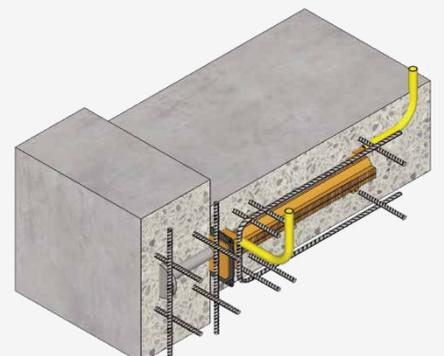
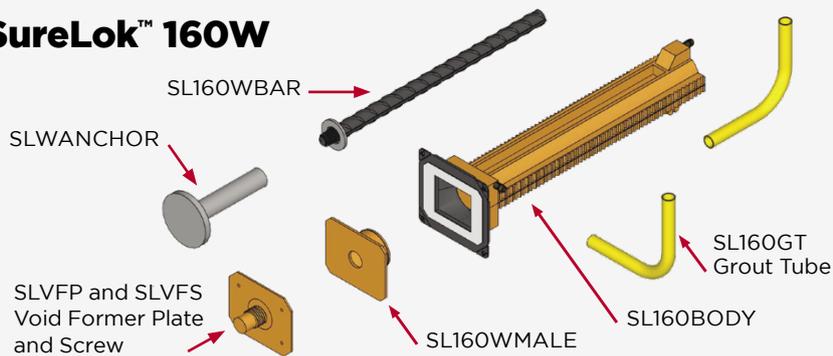
## SureLok™ 200W



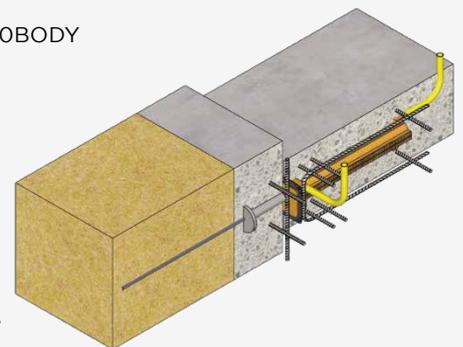
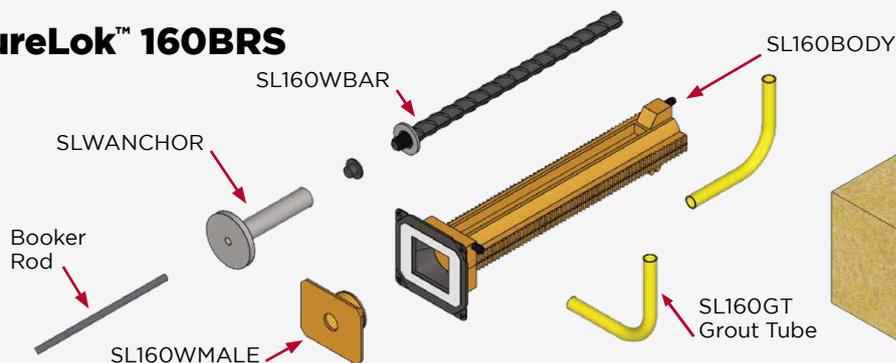
## SureLok™ 200BRS



## SureLok™ 160W



## SureLok™ 160BRS



# Performance

## SureLok™ 200S, 200W, 200R, 200BR

### Combination shear & tension capacity table for 32MPa Concrete

SLAB THICKNESS (mm)	ULTIMATE TENSION (kN)	ULTIMATE - VERTICAL DESIGN RESISTANCE (kN) FOR VARYING JOINT WIDTHS							
		5mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm
200	100	41	41	41	41	41	41	41	41
220	100	62	62	62	62	60	58	56	54
240	100	69	69	67	64	62	59	57	54
260+	100	76	73	70	67	62	59	57	54

**Note:** Shear capacities are the same in the ungrouted and grouted conditions.

### Combination shear & tension capacity table for 40MPa Concrete

SLAB THICKNESS (mm)	ULTIMATE TENSION (kN)	ULTIMATE - VERTICAL DESIGN RESISTANCE (kN) FOR VARYING JOINT WIDTHS			
		5mm	10mm	20mm	40mm
200	125	50	50	50	45
220	125	69	69	64	60
240	125	77	77	70	63
260+	125	82	82	75	63

**Note:** Shear capacities are the same in the ungrouted and grouted conditions.

## SureLok™ 200 series using Macalloy 1030 25mm bar

### Combination shear & tension capacity table for 40MPa Concrete

SLAB THICKNESS (mm)	JOINT GAP (mm)	SHEAR CAPACITY (kN)	TENSION CAPACITY (kN)
200	10	50	160
200	40	45	160
220	10	65	160
220	40	65	160
240	10	75	160
240	40	75	160
260	10	85	160
260	40	85	160

#### Notes:

1. Tabulated capacities are design values, being the characteristic failure values divided by the appropriate capacity (partial) reduction factors.
2. Tabulated capacities apply to a 40MPa minimum concrete strength for the slab and/or wall.
3. The design tension capacity of the **SureLok™ 200MAC** in pure-tension (nil shear) is 200kN.

## SureLok™ 160S, 160W, 160R, 160BR

### Grouted combination shear & tension

SLAB THICKNESS (mm)	ULTIMATE TENSION (kN)	ULTIMATE - VERTICAL DESIGN RESISTANCE (kN) FOR VARYING JOINT WIDTHS					
		5mm	10mm	15mm	20mm	25mm	30mm
160	100	17	17	17	17	17	17
180	100	29	29	29	29	29	29
200	100	40	40	40	40	40	40
220	100	60	60	59	57	56	54
240	100	66	66	63	60	57	54
260+	100	72	72	68	63	59	54
VERTICAL DISPLACEMENT (mm)		SERVICE - VERTICAL DESIGN RESISTANCE (kN) FOR VARYING JOINT WIDTHS					
		5mm	10mm	15mm	20mm	25mm	30mm
2mm		29	27	24	20	16	11
4mm		47	46	42	40	38	36

### Grouted tension only

SLAB THICKNESS (mm)	ULTIMATE TENSION (kN)
160 and above	160

#### Notes:

1. All grouted capacities based on 32MPa concrete and 40MPa grout.
2. FOS of 1.7 used for the above shear capacities.
3. SureLok™ cover to N24 dowel bar is 20mm (with 40MPa grout).
4. Requires additional reinforcement for punching shear.
5. **SureLok™ 160R** and **200R** chemical anchor to be designed by others.

#### General qualification

- Engineers to satisfy themselves that SureLok™ is fit for purpose in the context of all design, installation and service risks and parameters.

#### Engineering qualification

- The horizontal load capacities of SureLok™ subject to AS 1530 / ISO 834 fire conditions may vary from those tabulated.
- Grouting and/or caulking of the open joint is required to protect SureLok™ and provide structural adequacy under all fire conditions.

#### Installation qualification

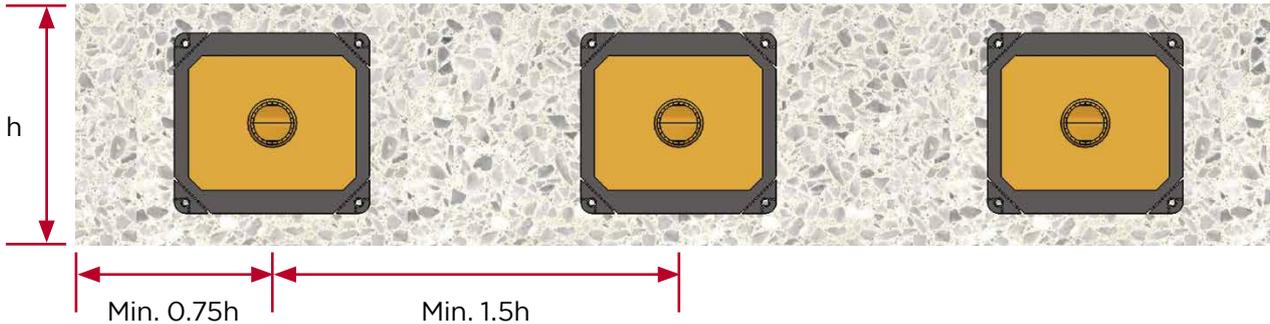
- Care must be taken to install the product strictly as per installation instructions. Product failure may result from incorrect installation or from damage experienced by the product during installation or concreting.

# Dimensions

## SureLok™ 200S, 160S, 200W, 160W, 200R, 160R, 200BRS, 160BRS

### Edge distance and spacing

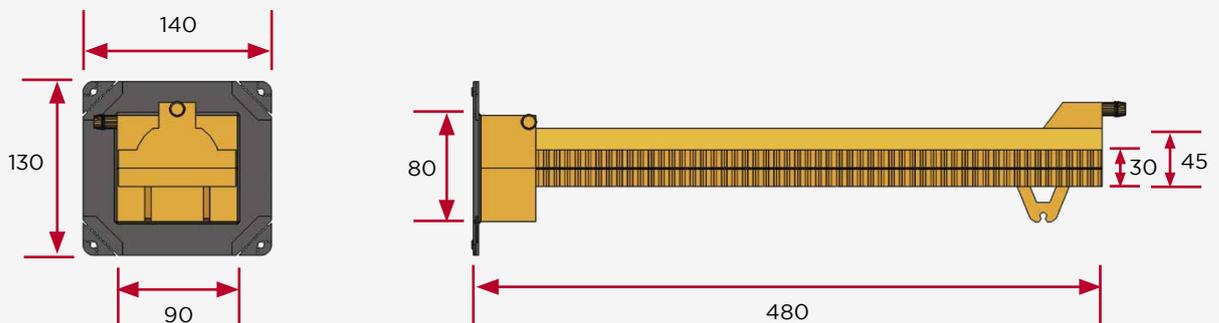
To utilise the full shear capacity of each unit, the following minimum spacing rules apply for concrete punching cone at 45°. No spacing requirement to achieve maximum tension capacity.



## SureLok™ 200 Body Dimensions

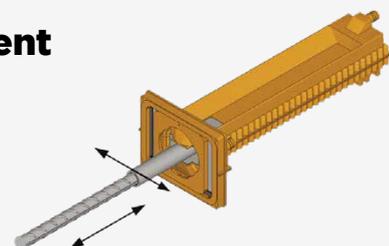


## SureLok™ 160 Body Dimensions



## SureLok™ 160 and 200 relative joint movement

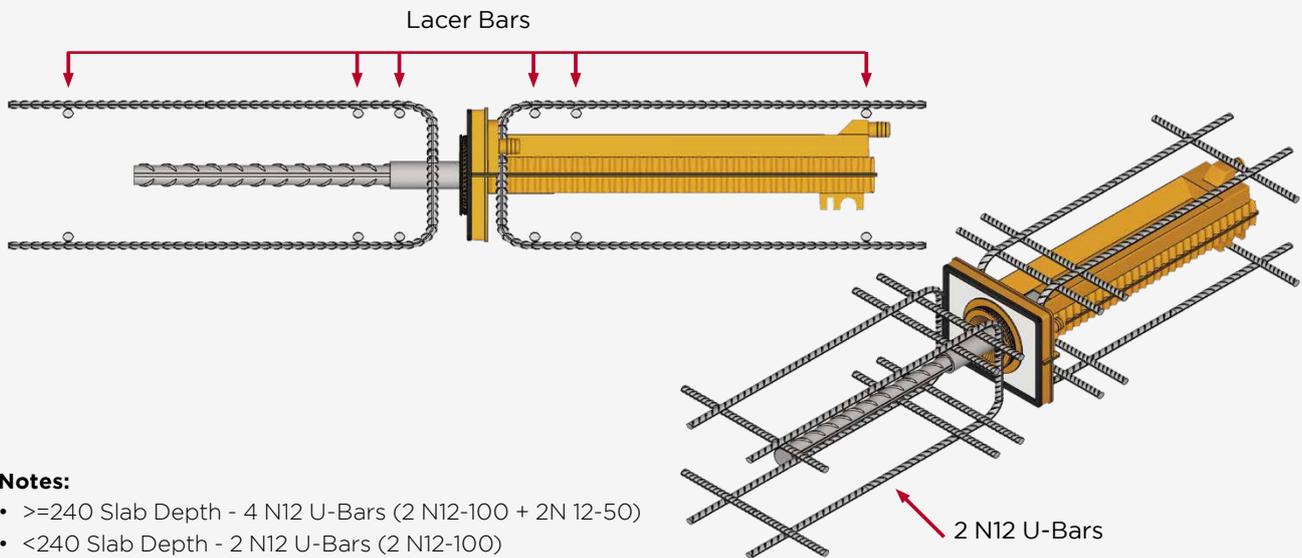
MODEL	JOINT RELATIVE MOVEMENT ALLOWANCE (max)	
	LATERAL (mm)	LONGITUDINAL (mm)
SL160 models	+/- 20	40
SL200 models	+/- 20	40



# Slab to Slab Reinforcement

Each SureLok™ unit requires local reinforcement to ensure adequate performance capacity is achieved. Reinforcement must be detailed in accordance with relevant codes and the details shown below. Lacer bars can form part of the main edge reinforcement. U-bar quantities noted are required on both sides of the slab to slab joint.

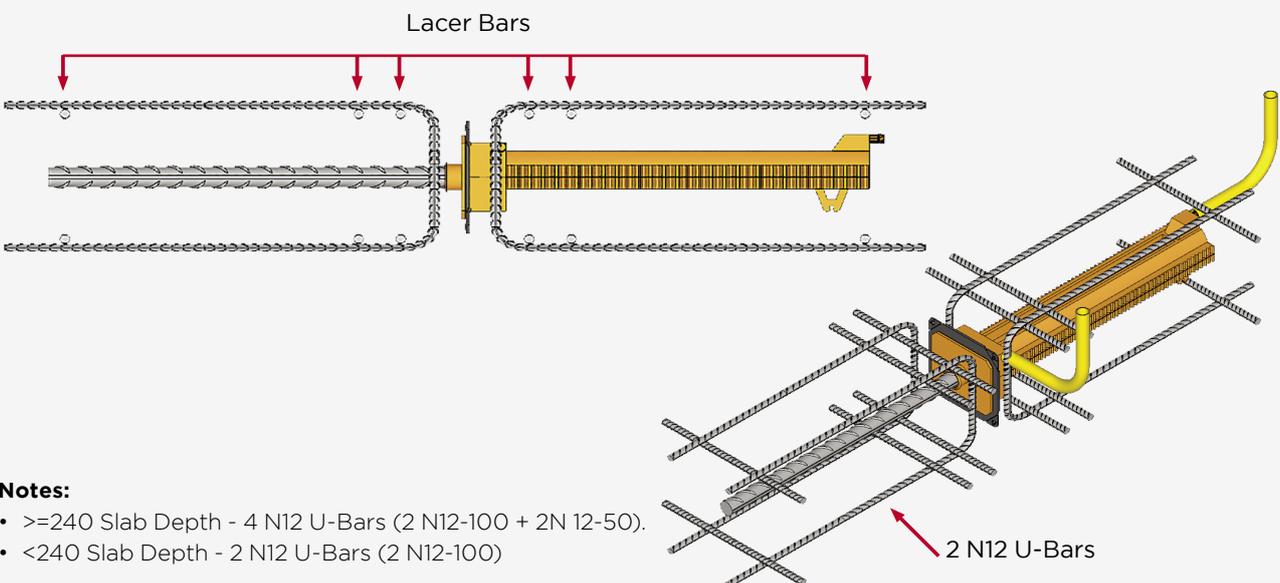
## SureLok™ 200S



**Notes:**

- $\geq 240$  Slab Depth - 4 N12 U-Bars (2 N12-100 + 2N 12-50)
- $< 240$  Slab Depth - 2 N12 U-Bars (2 N12-100)

## SureLok™ 160S

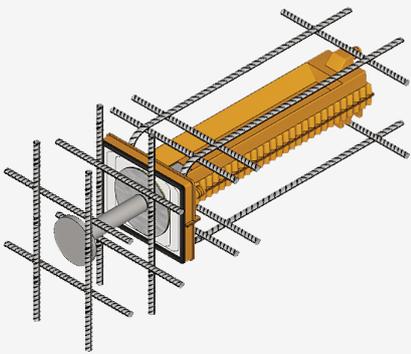


**Notes:**

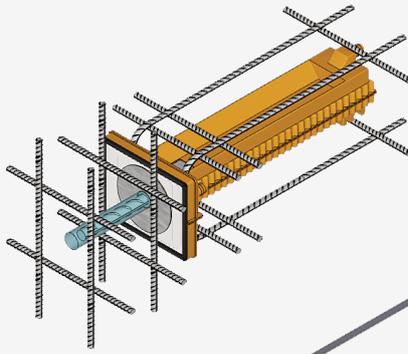
- $\geq 240$  Slab Depth - 4 N12 U-Bars (2 N12-100 + 2N 12-50).
- $< 240$  Slab Depth - 2 N12 U-Bars (2 N12-100)

# Slab to Wall Reinforcement

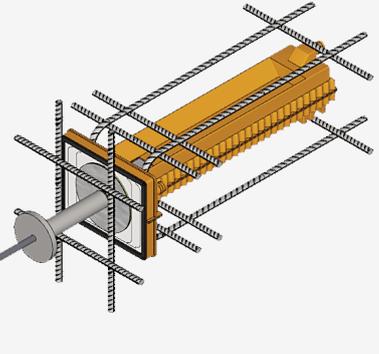
## SureLok™ 200W, 200R, 200BRS



**200W**

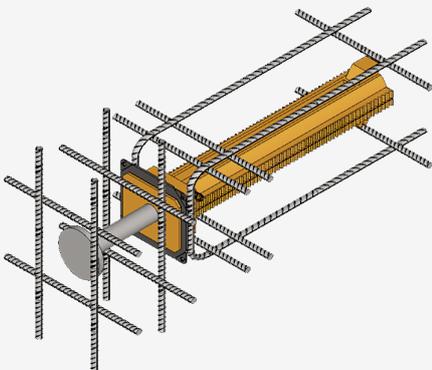


**200R**

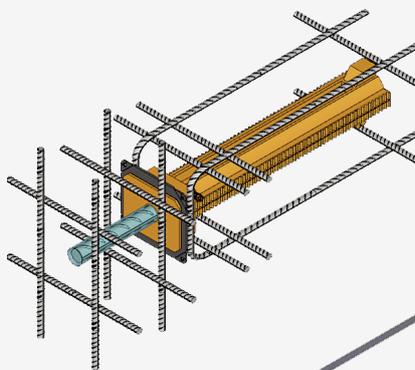


**200BRS**

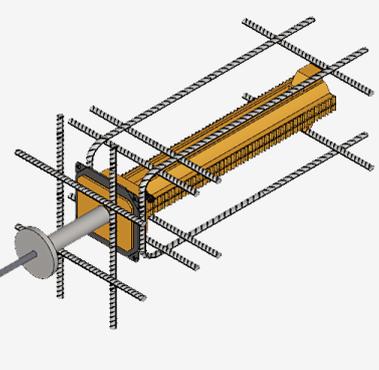
## SureLok™ 160W, 160R, 160BRS



**160W**



**160R**



**160BRS**

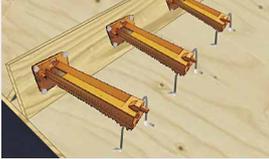
**Notes:**

- Slab to Wall requires minimum wall reinforcement at 200 centres horizontal and vertical.

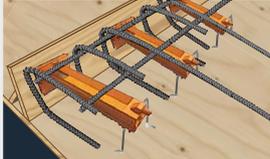
# Installation Guides

## SureLok™ 200S SLAB TO SLAB

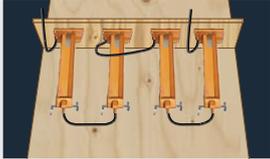
POUR 1



**1.** Screw sleeve to formwork (using supplied screws ONLY) and chair ends or attach to reinforcement.



**2.** Fix the local reinforcement, as specified by engineer.



**3a.** Connect grout tubes (option 1) and pour concrete.  
MAX 4 units together.



**3b.** Connect grout tubes (option 2) and pour concrete.  
MAX 4 units together.

POUR 2



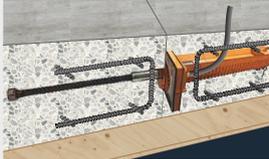
**1.** Remove formwork and remove circular protective sticker ONLY.



**2.** Attach male locking piece connector to sleeve by rotating clockwise by hand until locked.



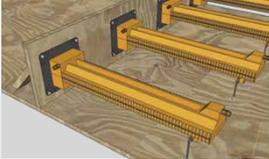
**3.** Insert dowel bar firmly and fix the local reinforcement around the dowel.



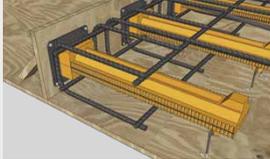
**4.** Pour concrete. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

## SureLok™ 160S SLAB TO SLAB

POUR 1



**1.** Screw sleeve to formwork (using supplied screws ONLY) and chair ends or attach to reinforcement.



**2.** Fix the local reinforcement, as specified by engineer.



**3a.** Connect grout tubes (option 1) and pour concrete.  
MAX 2 units together.



**3b.** Connect grout tubes (option 2) and pour concrete.  
MAX 2 units together.

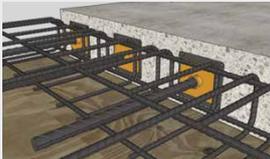
POUR 2



**1.** Pull off protective sticker



**2.** Install SureLok™ connector using Selleys Armour Flex as per sealing guide provided.



**3.** Install N24 dowel bar and reinforcement. Seal SureLok™ connector to dowel bar with duct tape.



**4.** Pour concrete. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

### Notes:

- Grout tubes can link or connect maximum 2 units together for grouting **SureLok™ 160S** or a maximum of 4 units together for grouting **SureLok™ 200S**. Always assess the risk of connecting multiple units together.
- Grouting must be carried out under low pressure.
- Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
- Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

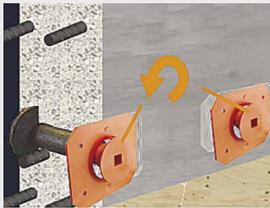
## SureLok™ 200W SLAB TO WALL

### POUR 1

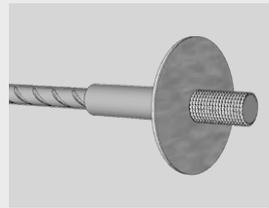


1. Fix the SureLok™ shear reinforcement to achieve full shear capacity as specified by engineer.
2. The threaded end of the foot anchor MUST NOT be more than 2mm away from the front face of the concrete wall.
3. Apply grease to the plastic thread before screwing anchor foot.

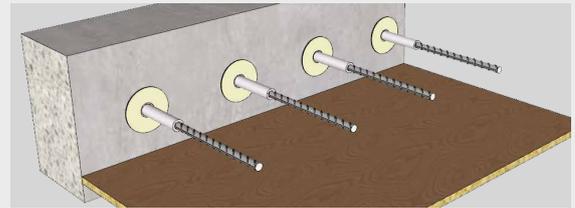
### POUR 2



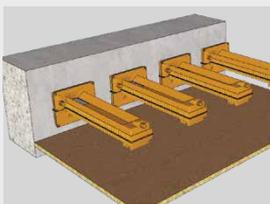
1. After wall formwork is removed, unscrew and discard void former.



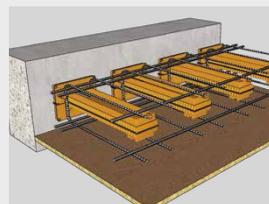
2. Fit connector disk with seal over bar.



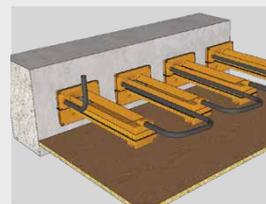
3. Screw bar with disk into foot anchor until hard against concrete.



4. Remove adhesive seal protective layers from both the SureLok™ female plastic sleeve and the connector disk. Firmly push the plastic sleeve against the disk.



5. Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



6. Connect grout tubes in series and pour concrete.

Max 4 units together.



7. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

1. Grout tubes can link or connect maximum 4 units together for grouting. Always assess the risk of connecting multiple units together.
2. Grouting must be carried out under low pressure.
3. Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

## SureLok™ 160W SLAB TO WALL

### POUR 1



1. Fix the SureLok™ shear reinforcement to achieve full shear capacity as specified by engineer.
2. The threaded end of the foot anchor **MUST NOT** be more than 2mm away from the front face of the concrete wall.
3. Apply grease to the plastic thread before screwing anchor foot.

### POUR 2



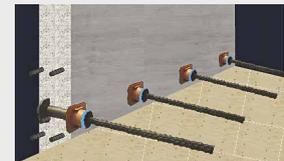
1. After POUR 1 formwork removed, unscrew and discard void former.



2. Apply a sealant to the washer on the threaded side of the N24 dowel bar, before fitting the male connector piece.



3. Apply ArmourFlex around the lip of the male connector piece, before screwing in the fitted N24 dowel bar into the anchor.



4. Slide main sleeve over dowel bar ensuring full engagement onto male connector piece, then chair ends.



5. Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



6. Connect grout tubes in series and pour concrete.  
Max 2 units together.



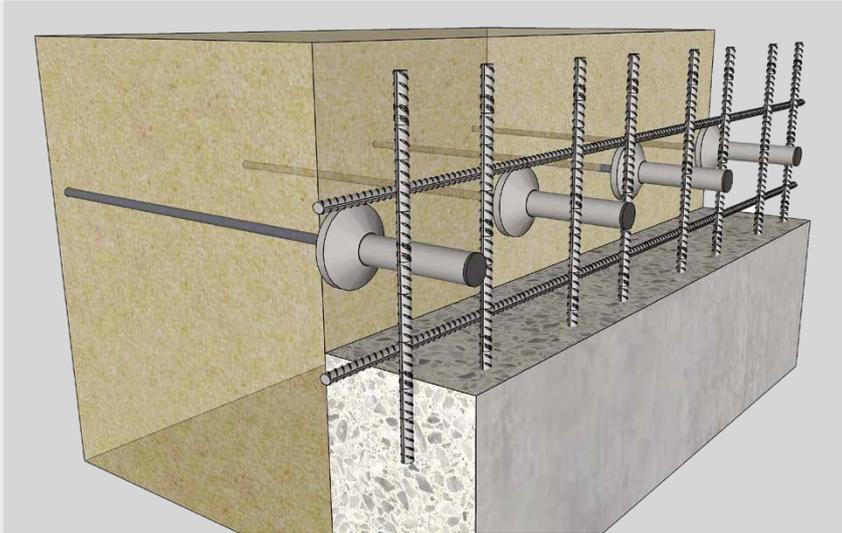
7. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

1. Grout tubes can link or connect maximum 2 units together for grouting. Always assess the risk of connecting multiple units together.
2. Grouting must be carried out under low pressure.
3. Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

## SureLok™ 200BRS BASEMENT RETENTION SYSTEM

### SHOTCRETE

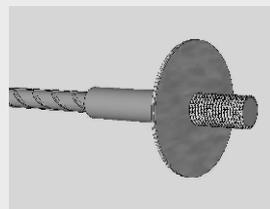


- 1.** Mark location for foot anchor on the substrate wall.
- 2.** Drill or drive in a 12mm booker rod into the substrate.
- 3.** Screw the foot anchor onto the booker rod and adjust to final set point.
- 4.** Shotcrete is applied exposing the rubber cap on the foot anchor.

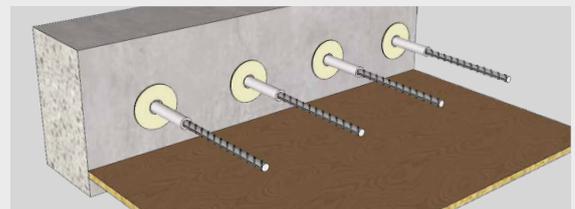
### POUR 1



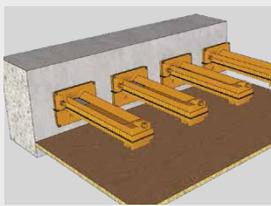
- 1.** After shotcrete is applied and wall finished, remove the rubber cap.



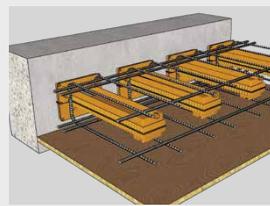
- 2.** Fit connector disk with seal over bar thread.



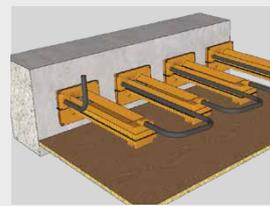
- 3.** Screw bar with disk into foot anchor until hard against concrete.



- 4.** Remove adhesive seal protective layers from both the SureLok™ female plastic sleeve and the connector disk. Firmly push the plastic sleeve against the disk.

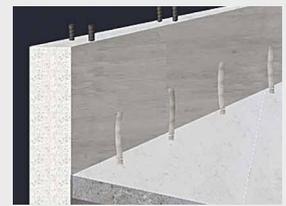


- 5.** Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



- 6.** Connect grout tubes in series and pour concrete.

Max 4 units together.



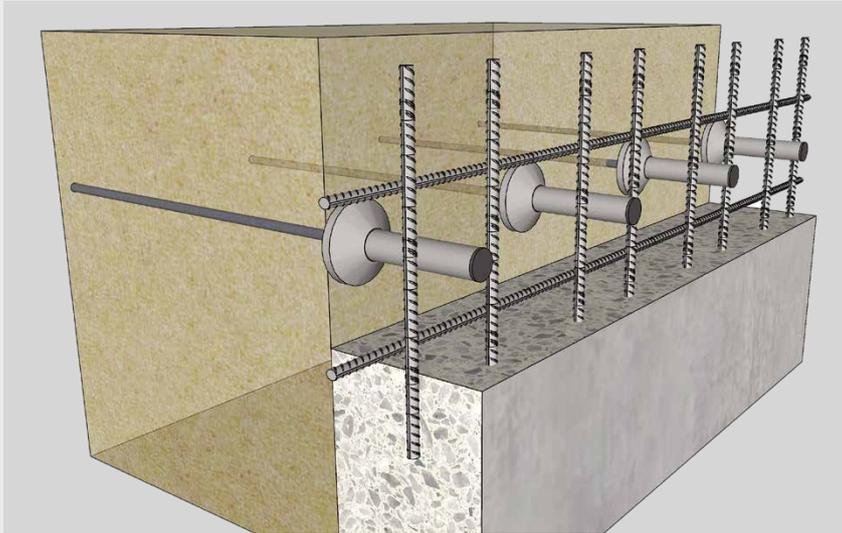
- 7.** Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

1. Grout tubes can link or connect maximum 4 units together for grouting. Always assess the risk of connecting multiple units together.
2. Grouting must be carried out under low pressure.
3. Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

## SureLok™ 160BRS BASEMENT RETENTION SYSTEM

### SHOTCRETE



1. Mark location for foot anchor on the substrate wall.
2. Drill or drive in a 12mm booker rod into the substrate.
3. Screw the foot anchor onto the booker rod and adjust to final set point.
4. Shotcrete is applied exposing the rubber cap on the foot anchor.

### POUR 1



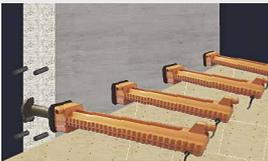
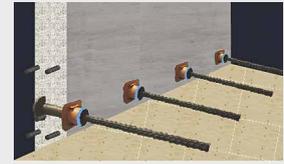
1. After shotcrete is applied and wall finished, remove the rubber cap.



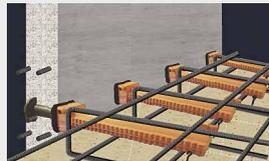
2. Apply a sealant to the washer on the threaded side of the N24 dowel bar, before fitting the male connector piece.



3. Apply ArmourFlex around the lip of the male connector piece, before screwing in the fitted N24 dowel bar into the anchor.



4. Slide main sleeve over dowel bar ensuring full engagement onto male connector piece, then chair ends.



5. Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



6. Connect grout tubes in series and pour concrete.  
Max 2 units together.



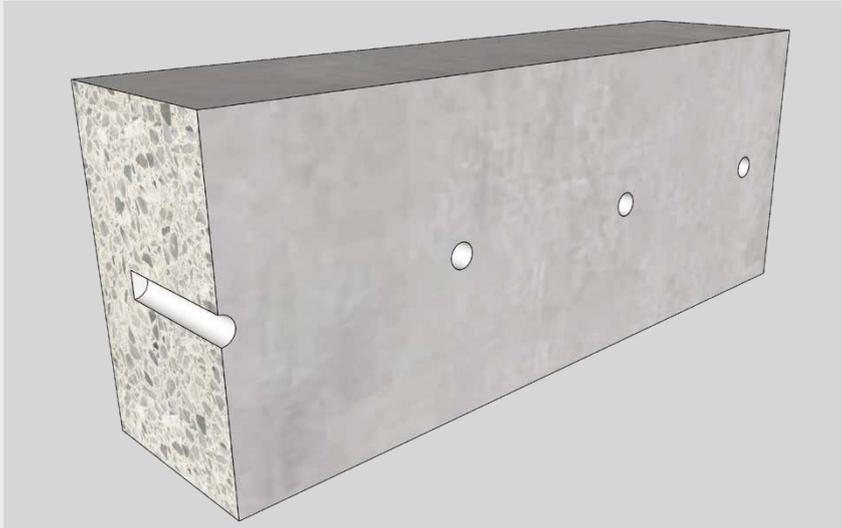
7. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

1. Grout tubes can link or connect maximum 2 units together for grouting. Always assess the risk of connecting multiple units together.
2. Grouting must be carried out under low pressure.
3. Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

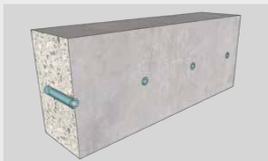
## SureLok™ 200R RETROFIT

### DRILLING



1. Drill holes in existing structure as per the epoxy supplier recommendations to suit the N24 SureLok™ Retrofit bar.
2. Prepare the holes as per the recommendations of the epoxy supplier.

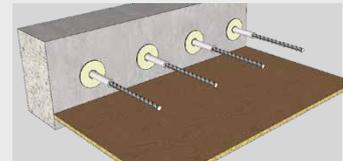
### POUR 1



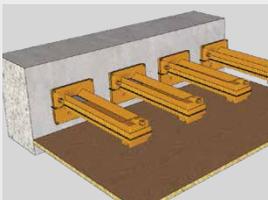
1. Place epoxy in the holes as per the recommendations of the epoxy supplier.



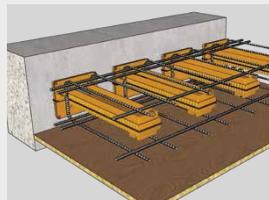
2. Insert the short length of the SureLok™ Retrofit bar through the central hole of the SureLok™ steel connector disk.



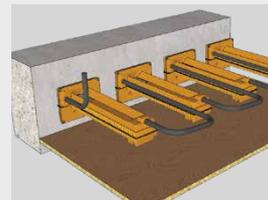
3. Insert the SureLok™ Retrofit bar with steel connector disk in the hole with epoxy, pressing the disk firmly against the concrete face.



4. Remove adhesive seal protective layers from both the SureLok™ female plastic sleeve and the connector disk. Firmly push the plastic sleeve against the disk.



5. Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



6. Connect grout tubes in series and pour concrete.  
Max 4 units together.



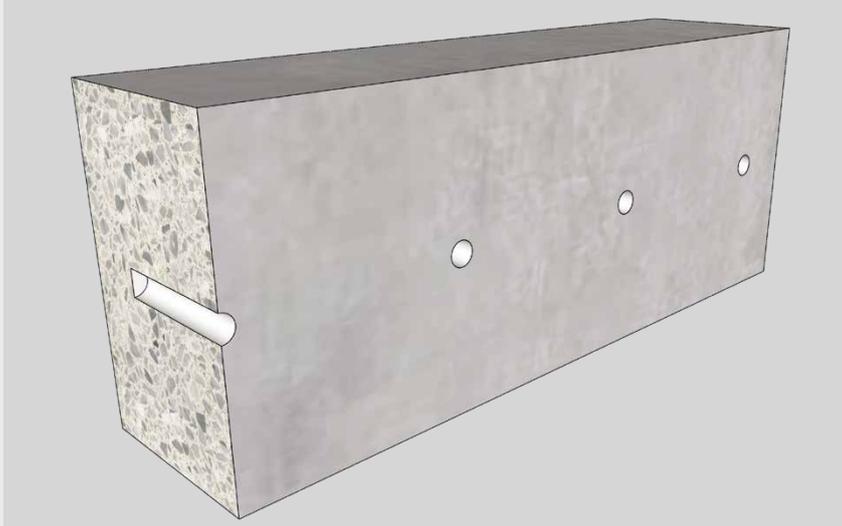
7. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

1. Grout tubes can link or connect maximum 2 units together for grouting. Always assess the risk of connecting multiple units together.
2. Grouting must be carried out under low pressure.
3. Each SureLok™ unit must utilise the 2 grout ports, one port as an inlet and the other as an outlet so as grout flows from one end of the unit to the other. Grout can flow in any direction along the SureLok™ unit.
4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.

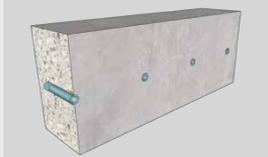
## SureLok™ 160R **RETROFIT**

### DRILLING

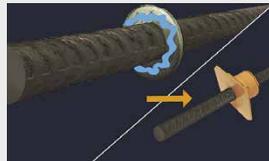


1. Drill holes in existing structure as per the epoxy supplier recommendations to suit the N24 SureLok™ Retrofit bar.
2. Prepare the holes as per the recommendations of the epoxy supplier.

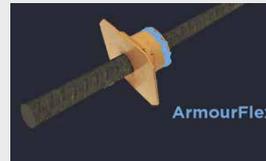
### POUR 1



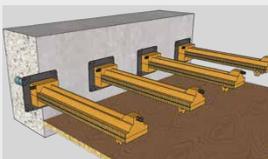
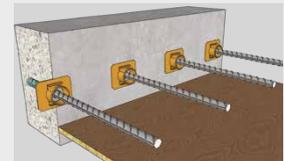
1. Place epoxy in the holes as per the recommendations of the epoxy supplier.



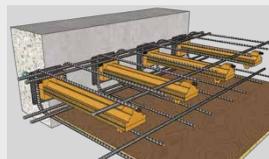
2. Apply Armourflex to the washer on the short side of the N24 retrofit dowel bar, before fitting the male connector piece.



3. Apply ArmourFlex around the lip of the male connector piece before inserting the short end of the N24 Retrofit dowel bar into hole that has been previously filled with epoxy.



4. Slide main sleeve over dowel bar ensuring full engagement onto male connector piece, then chair ends.



5. Fix SureLok™ shear reinforcement, to achieve full shear capacity as specified by engineer.



6. Connect grout tubes in series and pour concrete.  
Max 2 units together.



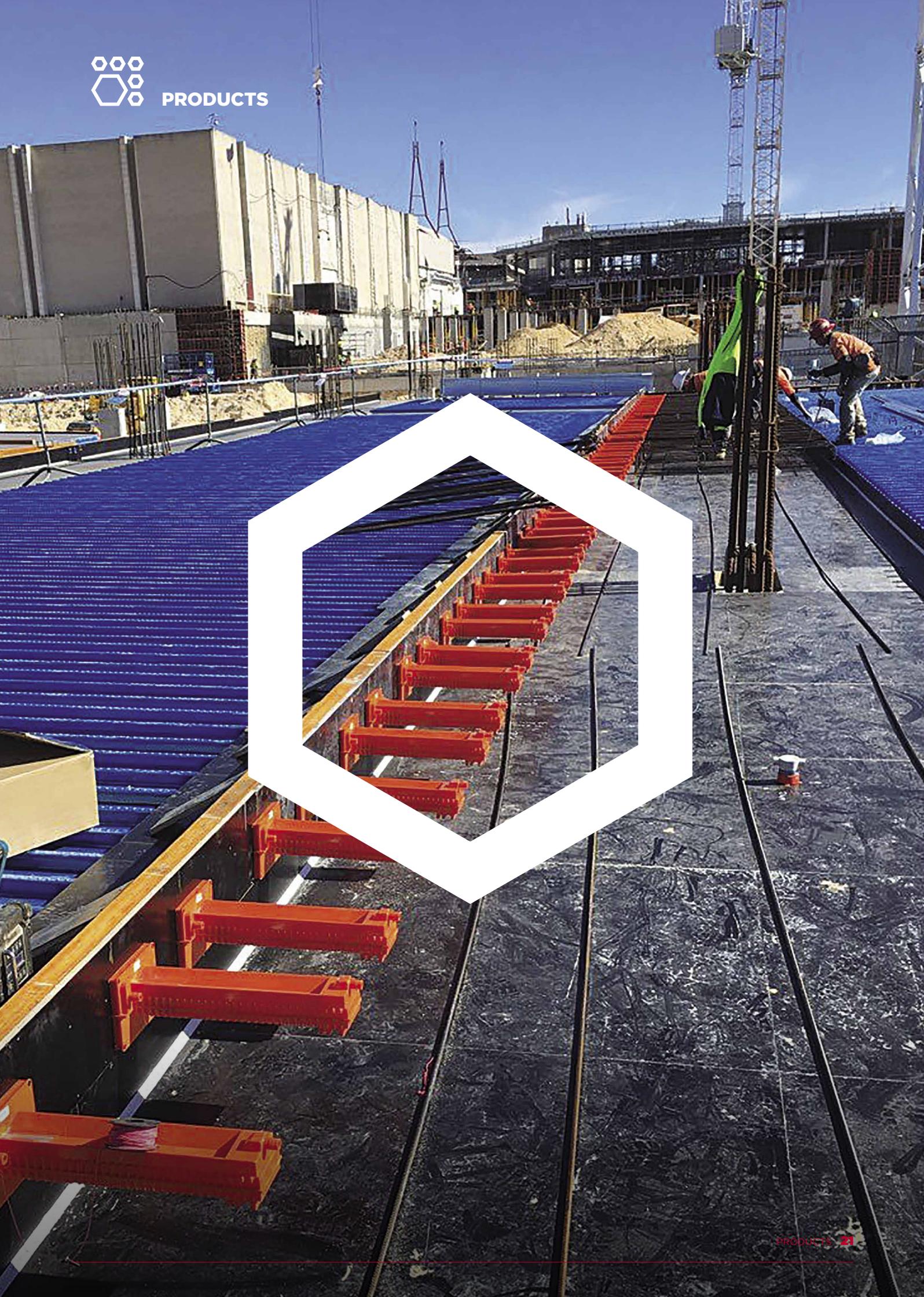
7. Grout joint and SureLok™ sleeves as specified by engineer. Remove grout tubes.

#### Notes:

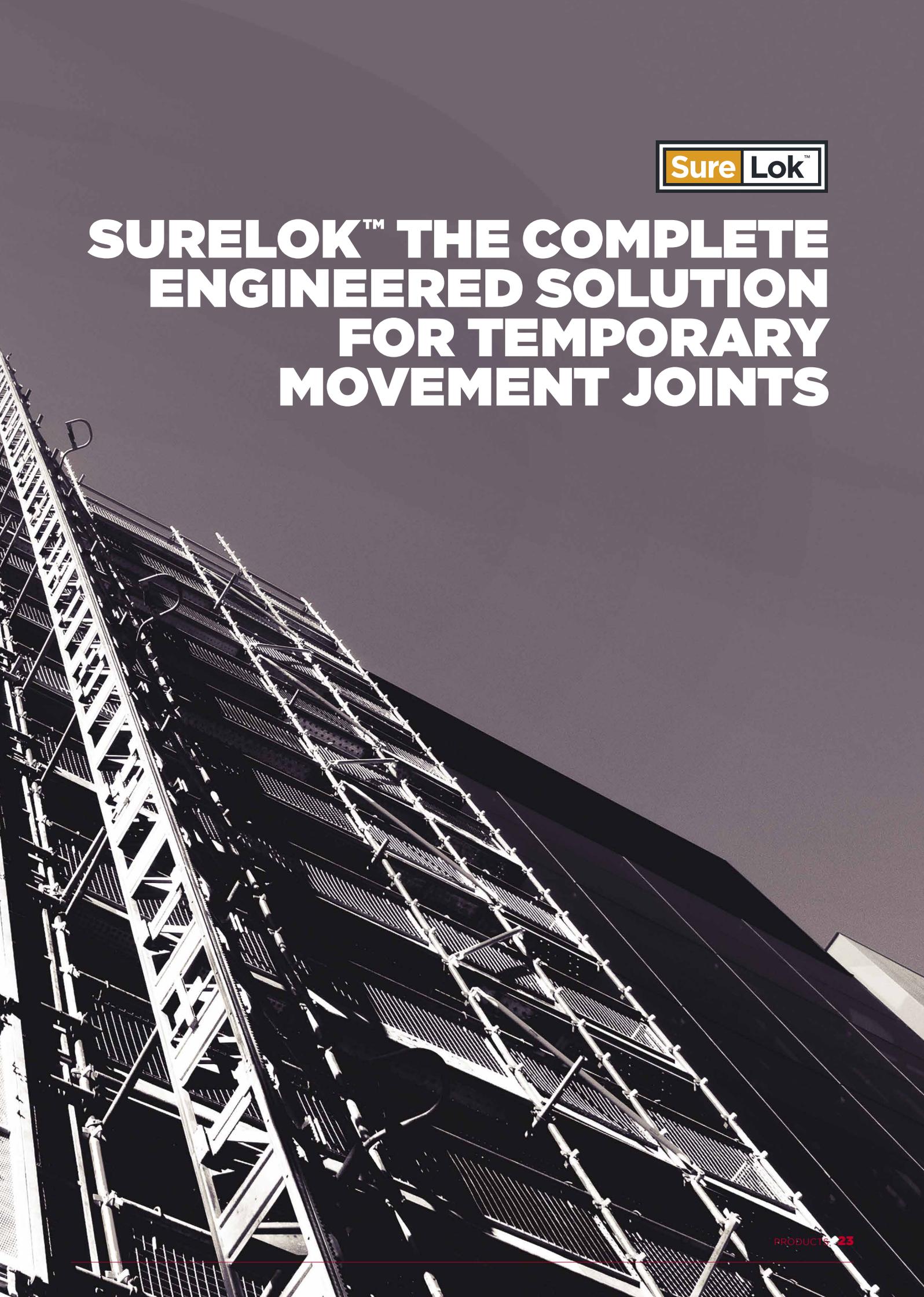
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4. Grout mix must achieve 40MPa to ensure the full tension capacity is achieved.



PRODUCTS







**Sure Lok™**

# **SURELOK™ THE COMPLETE ENGINEERED SOLUTION FOR TEMPORARY MOVEMENT JOINTS**



# Our global footprint

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