

INTERBL&C
INSTALL GUIDE

## IINTERBLOC® Product Specification and Reference Sheet

#### **GENERAL NOTES:**

These drawings are provided solely as preliminary guidance for wall design and are not suitable for final design or construction without further evaluation.

All site-specific walls must be certified and approved by a engineer licensed in the region where construction will occur, in accordance with New Zealand Standards and relevant building codes. Where applicable, building consent should also be obtained

The user assumes full responsibility for verifying the accuracy and proper application of the details provided in this document.

#### **Density Standards for Weight and Volume Calculations:**

Concrete densities typically range from 2200 to 2500 kg/m³ in accordance with standard construction practices. It is important to note that variations in dimensions of 1 to 3 mm may result in different volume calculations, which can subsequently affect the estimated weight. These values are provided as estimates, as actual weights may vary based on the specific concrete mix used, any additives, and adherence to relevant New Zealand standards and policies.

#### **Concrete Type:**

Interbloc is primarily manufactured using high quality, certified, excess concrete. 100% of blocks are 20 MPa or greater, and 50% of blocks are 30 MPa or greater. Concrete is tracked from source and each block carries a unique barcode for tracking. You can find out more information about this in our articles on excess concrete, and quality.

#### Foot Anchor:

2.5t x 120mm SwiftLift™ Foot Anchor. 1.3t x 120mm SwiftLift™ Foot Anchor.

Compliance: NZ GPG 2018.

System: Fully engineered with cast-in lifting anchors, recess formers, and lifting clutches.

Working Load Limit (WLL): 2.5 or 1.3 tons.

Factor of Safety (FoS): 4 for high tensile steel, exceeding NZ GPG 2018 minimum requirements.

Drawn by Sam Salari

Checked by

Approved by

Scale @ A4 1:300
Date 11/11/2024

# 600 FLAT TOP BLOCK

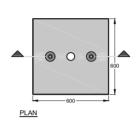
DESCRIPTION		WEIRIC
Ø	Width	600 mm
Ø	Height	600 mm
Ø	Depth	600 mm
Ø	Face Area	0.36 m²
Ø	Volume(±)	0.206 m <sup>3</sup>
Ø	Weight (±)	500 kg

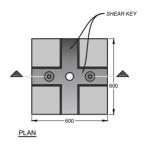


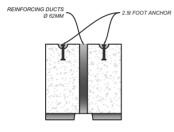
# 600 STANDARD BLOCK

DESCRIPTION		METRIC
8 8 8 8 8	Width Height Depth Face Area Volume (±) Weight (±)	600 mm 600 mm 600 mm 0.36 m <sup>2</sup> 0.214 m <sup>3</sup> 500 kg

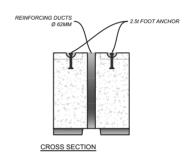


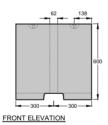


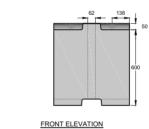




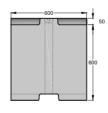
CROSS SECTION











SIDE ELEVATIONS

SIDE ELEVATIONS

# 600 FLAT BOTTOM BLOCK

## DESCRIPTION METRIC

Ø	Width	600 mn
Ø	Height	600 mm
Ø	Depth	600 mm
Ø	Face Area	0.36 m <sup>2</sup>
Ø	Volume (±)	0.221 m
Ø	Weight (±)	500 kg

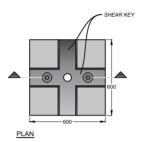


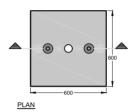
# 600 CAPPER BLOCK

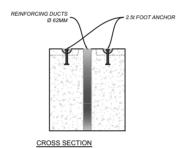
DECODIDATION	MACTOIC

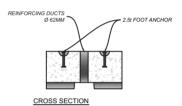
Ø	Width	600 mr
Ø	Height	297 mn
Ø	Depth	600 mr
Ø	Face Area	0.18 m
Ø	Volume (±)	0.096 r
M	Moight (+)	220 kg

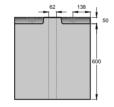


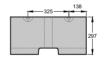








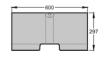




FRONT ELEVATION

FRONT ELEVATION





SIDE ELEVATIONS

SIDE ELEVATIONS

# 1200 FLAT TOP BLOCK

## DESCRIPTION METRIC

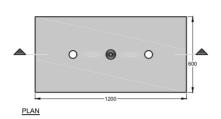
×	Width	1200 mm
Ø	Height	600 mm
Ø	Depth	600 mm
Ø	Face Area	0.72 m <sup>2</sup>
Ø	Volume (±)	0.413 m <sup>3</sup>
Ø	Weight (±)	1.00 TN

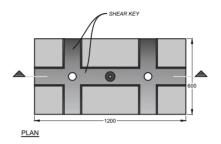


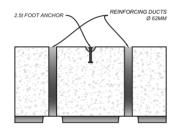
# 1200 STANDARD BLOCK

DESCRIPTION		METRIC
	Width Height Depth Face Area Volume (±) Weight (±)	1200 mm 600 mm 600 mm 0.72 m <sup>2</sup> 0.428m <sup>3</sup> 1.00 TN
	,	





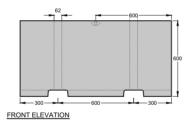


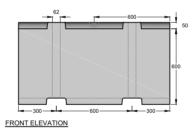


CROSS SECTION

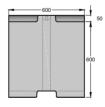
CROSS SECTION

2.5t FOOT ANCHOR









SIDE ELEVATIONS SIDE ELEVATIONS

## 1200 FLAT BOTTOM BLOCK

#### DESCRIPTION METRIC

- 1200 mm 600 mm 600 mm 0.72 m<sup>2</sup> 0.443 m<sup>3</sup> 1.00 TN Width Height Depth Face Area Volume (±) Weight (±)

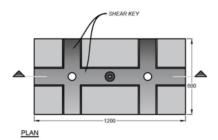


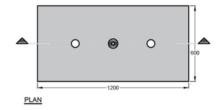
# 1200 CAPPER BLOCK

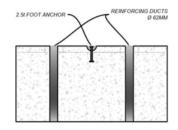
#### DESCRIPTION METRIC

- 1200 mm 297 mm 600 mm 0.36 m<sup>2</sup> 0.192 m<sup>3</sup> 440 kg

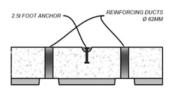




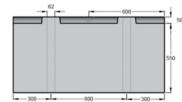




CROSS SECTION



CROSS SECTION

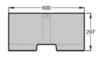






SIDE ELEVATIONS

FRONT ELEVATION



SIDE ELEVATIONS

# 1800 FLAT TOP BLOCK

#### DESCRIPTION METRIC

1800 mm 600 mm 600 mm 1.08 m<sup>2</sup> 0.620 m<sup>3</sup> 1.50 TN Width
Height
Depth
Face Area
Volume (±)
Weight (±)



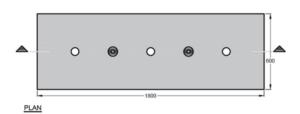


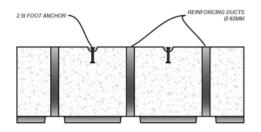
## 1800 STANDARD BLOCK

DESCRIPTION METRIC

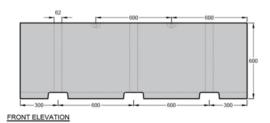
1800 mm 600 mm 600 mm 1.08 m<sup>2</sup> 0.642 m<sup>3</sup> 1.50 TN

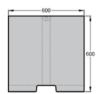




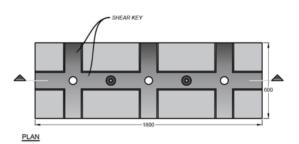


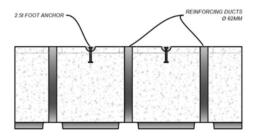
CROSS SECTION



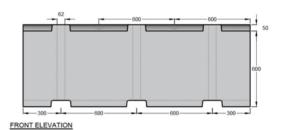


SIDE ELEVATIONS





CROSS SECTION



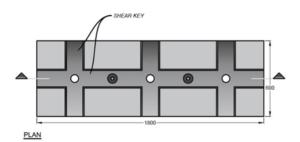
SIDE ELEVATIONS

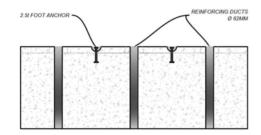
# 1800 FLAT BOTTOM BLOCK

## DESCRIPTION METRIC

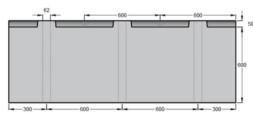
Width 1800 mm
 Height 600 mm
 Depth 600 mm
 Face Area 1.08 m²
 Volume (±) 0.665 m³
 Weight (±) 1.50 TN



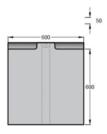




CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

## 1200 BASE BLOCK

## DESCRIPTION METRIC

	Width	1200 mm
•	Height	600 mm
	Depth	600 mm
	Face Area	0.58 m <sup>2</sup>
	Volume (±)	0.339 m <sup>3</sup>
•	Weight (±)	780 kg

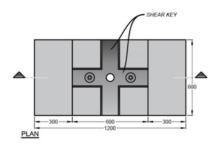


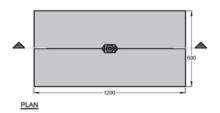
# 1200 TOP BLOCKS

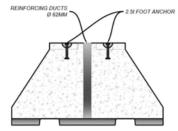
## DESCRIPTION METRIC

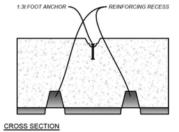
	Width	1200 mi
•	Height	600 mm
•	Depth	600 mm
•	Face Area	0.72 m <sup>2</sup>
•	Volume (±)	0.254m
	Weight (±)	585 kg



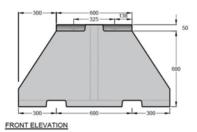


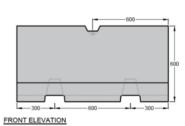












500

600

SIDE ELEVATIONS

SIDE ELEVATIONS

## 600 TOP BLOCKS

# DESCRIPTION METRIC

•	Width	1200 m
•	Height	600 mm
•	Depth	600 mm
•	Face Area	0.36 m <sup>2</sup>
	Volume (±)	0.127 m
•	Weight (±)	290 kg



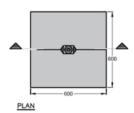
## 600 TAPER BLOCK

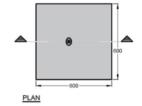
## DESCRIPTION METRIC

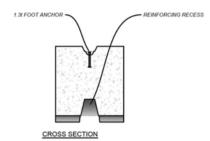
•	Width	1200 mr
•	Height	600 mm
•	Depth	600 mm
•	Face Area	0.18 m <sup>2</sup>
_	11-1 (1)	0 400

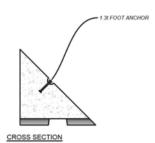
Face Area 0.18 m²
 Volume (±) 0.100 m³
 Weight (±) 230 kg

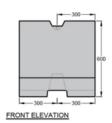


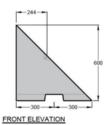


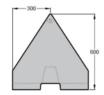


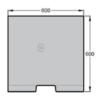












SIDE ELEVATIONS

SIDE ELEVATIONS

## 600 FLAT TOP RECESS BLOCK

#### DESCRIPTION

600 mm 600 mm 600 mm 0.36 m<sup>2</sup> 0.205 m<sup>3</sup> 470 kg



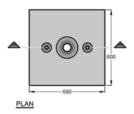
# 600 CAPPER RECESS BLOCK

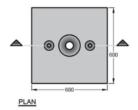
DESCRIPTION METRIC

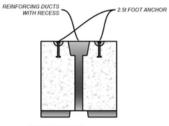
Width Height Depth Face Area Volume(±) Weight (±) 600 mm 297 mm 600 mm 0.18 m<sup>2</sup> 0.097 m<sup>3</sup> 225 kg



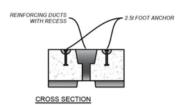


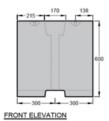






CROSS SECTION

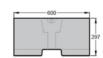






SIDE ELEVATIONS

FRONT ELEVATION



SIDE ELEVATIONS

## 1200 FLAT TOP RECESS BLOCK

#### DESCRIPTION METRIC

- 1200 mm 600 mm 600 mm 0.72 m<sup>2</sup> 410 m<sup>3</sup> 0.94 TN Width Height Depth Face Area Volume (±) Weight (±)

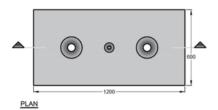


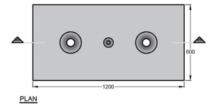
# 1200 CAPPER RECESS BLOCK

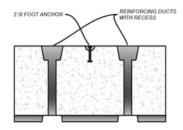
#### DESCRIPTION METRIC

- 1200 mm 297 mm 600 mm 0.36 m<sup>2</sup> 0.192 m<sup>3</sup> 440 kg

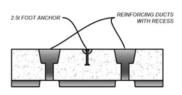




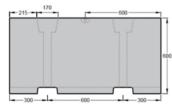




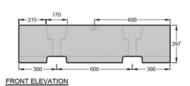
CROSS SECTION



CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

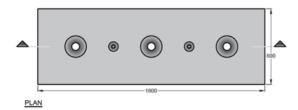
SIDE ELEVATIONS

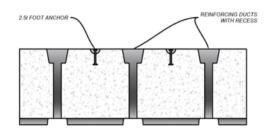
# 1800 FLAT TOP RECESS BLOCK

## DESCRIPTION METRIC

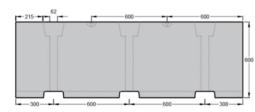
• Width 1800 mm • Height 600 mm • Depth 600 mm • Face Area 1.08 m² • Volume (±) 0.615 m³ • Weight (±) 1.415 TN







CROSS SECTION



FRONT ELEVATION



SIDE ELEVATIONS

# **PRE-START CHECKLIST**

Before commencing an installation we will check the following, ideally with you. These are issues which will delay the start of the installation, or may lead to additional costs.

ITEM	СНЕСКВОХ
SITE ACCESS	
Clear access for trucks to deliver blocks, including turn around circles	
Clear access for forklifts/lifting equipment to manoeuvre	
FOUNDATIONS	
<ul> <li>If Concrete:</li> <li>Level surface where blocks will be placed</li> <li>Identify location and size of steel reinforcing as it may impact on the drilling of holes for fixing kits</li> </ul>	
If non-Concrete - well compacted firm ground	
SURROUNDING STRUCTURES	
Area for placement of blocks is free of all structures	
• If not, measurements have been taken between structures to ensure blocks will fit (allow for 5mm creep per block)	
<ul> <li>If using fixing kits - airspace above blocks should clear for at least the planned height of the wall</li> </ul>	
OTHER	
• Review block structure plans - will the structure fit in the floorspace provided?	
<ul> <li>If modifications are required to the structure these should be made before dispatch commences</li> </ul>	
Customer supplied starting/survey/datum points	

# **BLOCK DELIVERY PROCESS OVERVIEW**

This section provides an overview of Envirocon's block delivery process.

## **BLOCK LAY DOWN AREA:**

- You will need to ensure you have sufficient space to store the blocks between unloading the truck and installing the blocks.
- Each block takes up 0.72m2, blocks can be stacked to a max of 4 blocks high only if you have level ground
- You may need to consider site specific H&S requirements, blocks may be stack to a max of 2 or 3 blocks high so an individual can hook the lifting klaw during installation.
- Avoid placing blocks on muddy or soft ground, this will cause the block to be unstable and will affect the aesthetics of the block.
- Place the blocks as close of feasible to the place they will be installed. This will increase the speed of installation and reduce double handling of blocks.
- Consider how the blocks are stored blocks used at the base of the wall should be easily accessible first.
- A forklift is the most cost effective and efficient way of unloading trucks, handling blocks onsite, and installing the blocks.

#### **CUSTOMER COLLECT**

If you opt to collect the blocks yourself or have organised your own freight. Theres a couple of key points you need to keep in mind:

- You need to arrange for the collection of blocks well before we are due on site for installation.
- Contact Envirocon Dispatch before sending any trucks. Pick ups need to be scheduled in our dispatch system.
- Drivers must contact the Dispatch Coordinator before arriving on site to confirm pick up times.
- If this is not done, the truck may not be loaded and turned away.
- Drivers must have the job reference number on them.
- Payment terms must have been met before loading can commence.
- Drivers must have correctly rated chains for securing blocks.
- · Drivers must arrive on time.
- · Drivers must not arrive before you scheduled time.
- · Drivers will not be loaded early.
- · Drivers must use corner protectors.

## Truck types that are acceptable:

- Flat deck
- No high metal lips on edge (5cm is too high)
- Curtain siders
- No tow trucks
- · No fixed side trucks
- Drivers are required to sign for the load before leaving
- Trucks must have a clean truck deck area
- · Drivers are not allowed to smoke on site

## Drivers must follow Envirocon's site safety rules:

- 10km/h speed limit on site
- Everyone must have appropriate high-viz
- · Everyone must wear steel toed shoes
- You must know your maximum tonnage and not overload your ratings
- · You must have a current COF
- · Your vehicle must be mechanically sound
- The load must be strapped properly
- · You need to always follow instructions given by Dispatch Staff
- · No parking overnight on Envirocon premises
- Drivers must be visible to the Dispatcher when blocks are being loaded onto the truck.

The forklift driver must always have line of sight of drivers. There is a risk of blocks being dislodged off the deck as they are pushed to the edge.

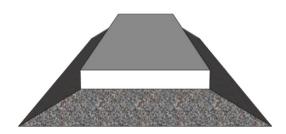
# **INSTALLING THE BLOCKS**

# THE FOLLOWING IS A GENERAL DESCRIPTION OF HOW WE WILL INSTALL YOUR BLOCKS.

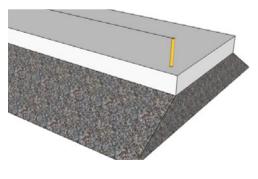
## **KEY LIFTING SAFETY RULES:**

- Do not stand under, or near a block while it is being lifted.
- Machinery should only be operated by competent persons with appropriate training and certificates.
- All lifting clutches, chains, and booms should be regularly checked and be in good working condition.
- Only Reid® Klaw's should be used, use of any other lifting clutch/device will void the block warranty and may result in failure of the lifting anchor.
- Blocks should never be transported over distances or rough terrain using the lifting anchor.
- Where it is intended the blocks are to be lifted regularly (more than five times in one year) blocks with dual lift anchors will be required.

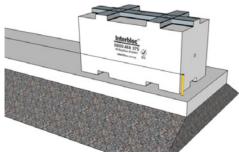
# **PLACING THE BLOCKS**



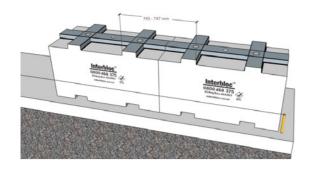
For best results the wall should be built on a level, concrete, foundation. Prior to block placement sweep the concrete surface to ensure the foundation is free of debris.



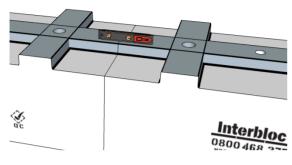
Lay a string line along the length of the pad as a guide.



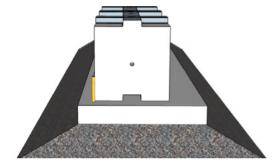
Starting from a corner (if the wall has one) place the first block. Maintain a 10mm gap from the string line with all blocks.



Place your next block, and ensure the gap between the interlocking grooves is between 745mm and 747mm. The correct spacing allows the wall to be built at height without binding.



It is important to ensure the base layer of the blocks are level, flush, and correctly spaced.

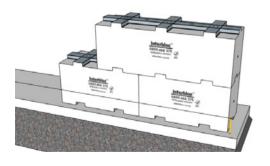


Blocks can be repositioned post placement by using a pinch/crow bar to leverage the block around.

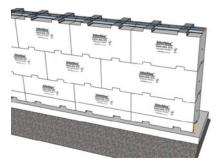
When placing blocks, ensure the interlocking crosses are lined up.



Before adding a layer of blocks, ensure the top of the previous layer is swept free of debris. Use a brush or blower to do this.



Place your next layer of blocks, ensuring a running bond pattern is maintained.



You may need to use shims to ensure each layer of blocks is level.