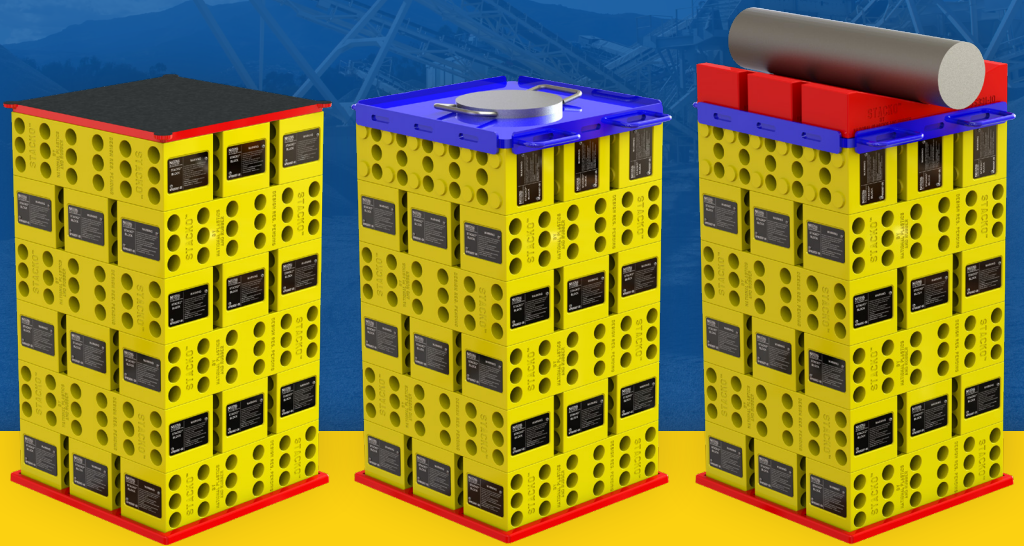


**NATIONAL**  
PLASTICS & RUBBER



**STACKO™**  
**BLOCKS**

Leaders in the design and manufacture of Polyurethane,  
Rubber and Industrial Plastic products.

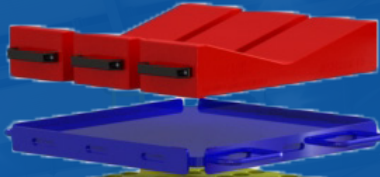
# STACKO™ LOAD RATED SUPPORT BLOCKS

Stacko™ Blocks are a unique and configurable solution for load support. A must for any workshop to ensure absolute safety and long term return.



## LOAD RATED

LABORATORY &  
INDEPENDENTLY  
TESTED



MULTIPLE CONFIGURATIONS  
TO SUIT DIFFERENT LOADS

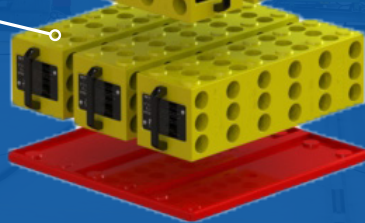
UV STABILISED

## LIGHT WEIGHT

UP TO 30% LIGHTER THAN  
TIMBER & OTHER PRODUCTS

## TOUGH & SAFE

INTERLOCKING DESIGN  
FOR ADDED SAFETY



STACK UP TO 150CM (60")  
EXCLUDING TOP CONFIGURATION

## THE SUPERIOR ALTERNATIVE.

Stacko™ Blocks have been developed from the ground up as a superior alternative to traditional timber blocks. Manufactured from high quality UV stabilised materials ensures Stacko™ Blocks will perform to expectations for the long term.

Stacko™ Blocks are safe due to their interlocking design, up to 30% lighter than other products and are load rated with laboratory & independent testing.

**STACKO™ BLOCK**

PART NO. NPR05007-00

Used in Examples 1 - 7



	510mm L
	150mm W
	150mm D
	8kg

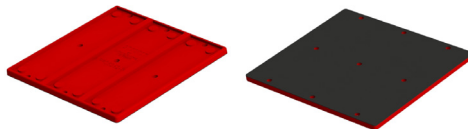
**STANDARD BASE PAD**

PART NO. NPR05362-10

with Patented High Traction Base

Used in Examples 2-7 or

when forming any stack

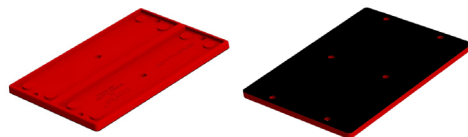


	560mm L
	555mm W
	20mm D
	4.5kg

**DOUBLE BASE PAD**

PART NO. NPR08164-00

See page 14.



	350mm L
	250mm W
	30mm D
	8kg

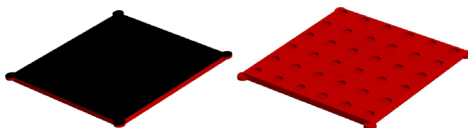
**STANDARD TOP PAD**

PART NO. NPR05409-10

with Patented High Traction Top

Used in Example 4 &amp; 5

Aust. Pat. No. 2017228727

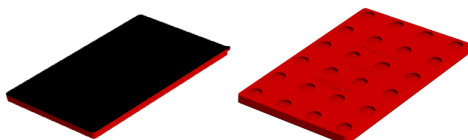


	545mm L
	545mm W
	20mm D
	6.5kg

**DOUBLE TOP PAD**

PART NO. NPR08166-00

See page 14.



	515mm L
	150mm W
	100mm D
	6.6kg

**SINGLE TOP OR BOTTOM PAD**

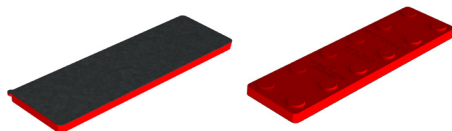
PART NO. NPR07006-00

with Patented High  
Traction Top

Aust. Pat.

No. 2017228727

For standard use



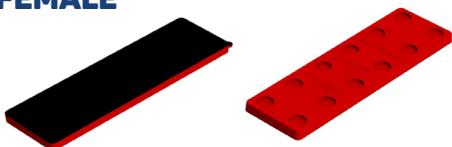
	514mm L
	514mm W
	26mm D
	2kg

**SINGLE TOP PAD - FEMALE**

PART NO. NPR07692-00

For use with single top plate

See page 15.



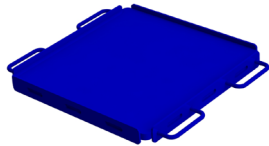
	510mm L
	150mm W
	D
	10.5kg






# STANDARD TOP PLATE

PART NO. NPR05408-00

Used in Example 2, 3 & 5



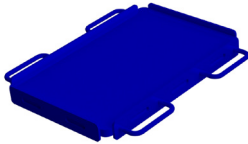
	640mm L
	520mm W
	50mm D
	42kg





# DOUBLE TOP PLATE

PART NO. NPR08165-00

with Patented High Traction Base

See page 14

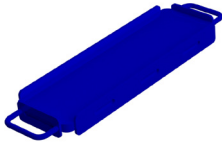


	560mm L
	555mm W
	20mm D
	4.5kg

# SINGLE TOP PLATE

PART NO. NPR08167-00

See page 15

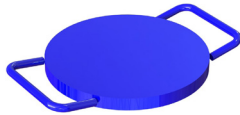


	350mm L
	250mm W
	30mm D
	8kg

# JACK PLATE

PART NO. NPR05408-20

Used in Example 3



	350mm L
	250mm W
	30mm D
	8kg

# SINGLE V-BLOCKS

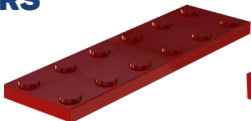
PART NO. NPR05391-10

Used in Example 2



	515mm L
	150mm W
	100mm D
	6.6kg

# PACKERS



2.5CM (1")  
Part No. NPR05377-30



5CM (2")  
Part No. NPR05377-20



10CM (4")  
Part No. NPR05377-10

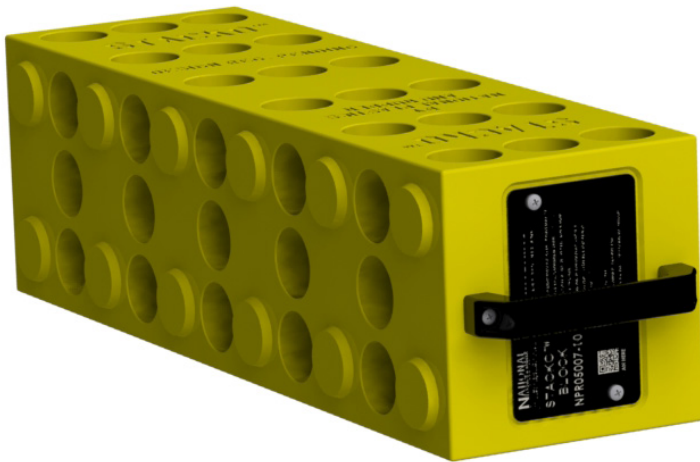
	510mm L
	150mm W

# SUGGESTED STACKO™ CONFIGURATIONS

## SINGLE STACKO™ BLOCK

### EXAMPLE 1

Used as a single block/s.



Maximum Load Area at  
Maximum Load Rating

Round - Ø10cm (4 inch)  
Square - 10cm x 10cm (4x4 inch)  
Area - 100 sq cm (16 sq inch)

Load Rating

30kg/sq cm (426 psi)

Maximum Load

23,000kg (50,600lb)

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

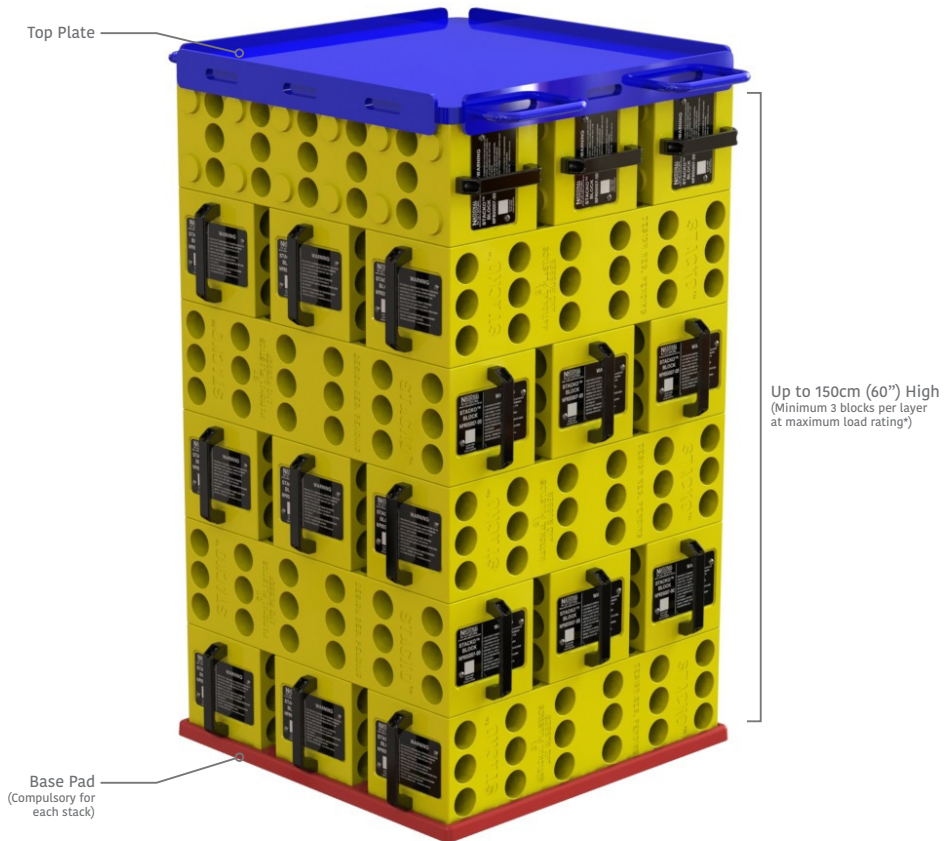
Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# STACK+TOP PLATE

## EXAMPLE 2

This configuration is a multi-purpose stack to be used where load area fits within the Top Plate edge.

\* all parts sold seperately.



### Load Rating

100kg/sq cm (1422 psi)

### Maximum Load

60,000kg (132,000lb)

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

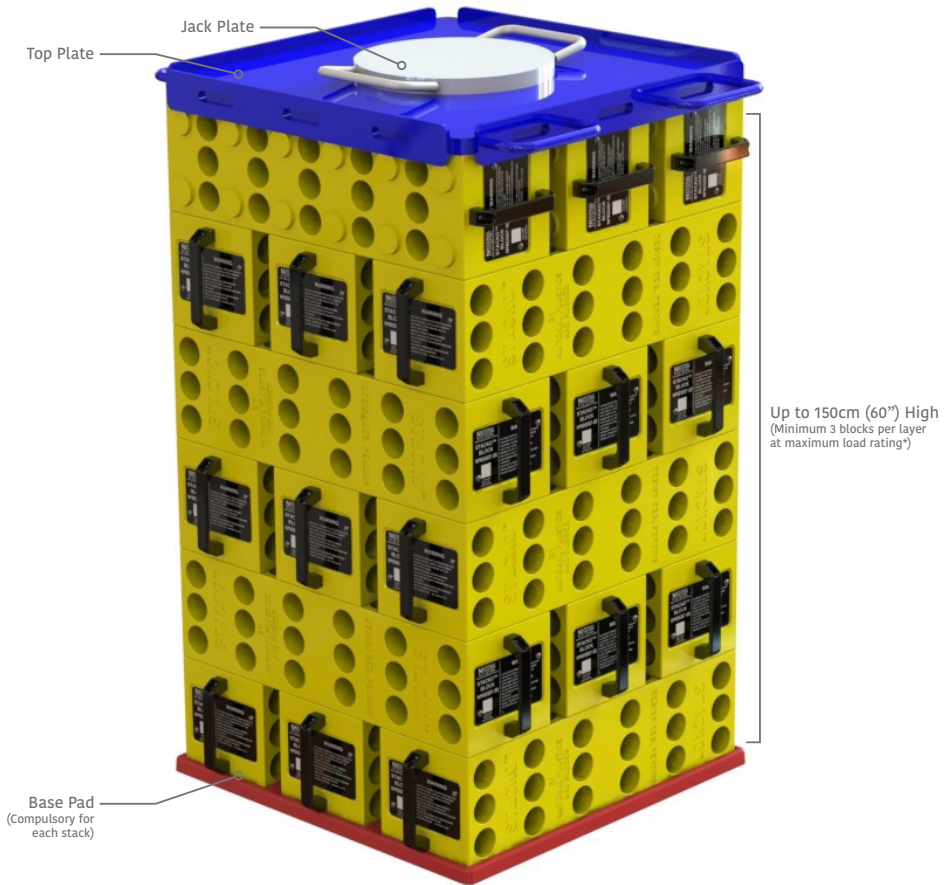
Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# STACK+TOP PLATE+JACK PLATE

## EXAMPLE 3

This configuration with steel Top Plate and Jack Plate is suitable to be used as a high load jacking base.

\* all parts sold separately.



Jack Plate

Ø250mm (10 inch)

Maximum Load  
when using Jack Plate

60,000kg (132,000lb)

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

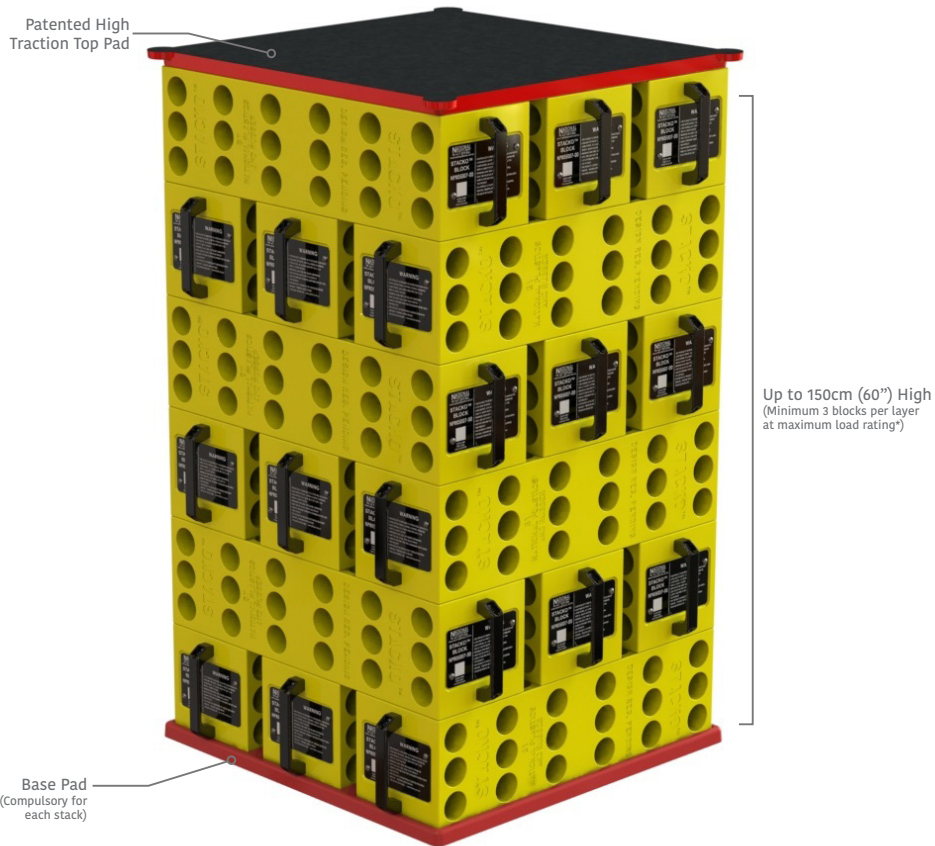


# STACK+TOP PAD

## EXAMPLE 4

Multi-Purpose stack suitable for larger load areas with no point loading.  
The patented high traction top pad provides an improved grip surface.

\* all parts sold separately.



### Load Rating

30kg/sq cm (426 psi)

### Maximum Load

60,000kg (132,000lb)

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

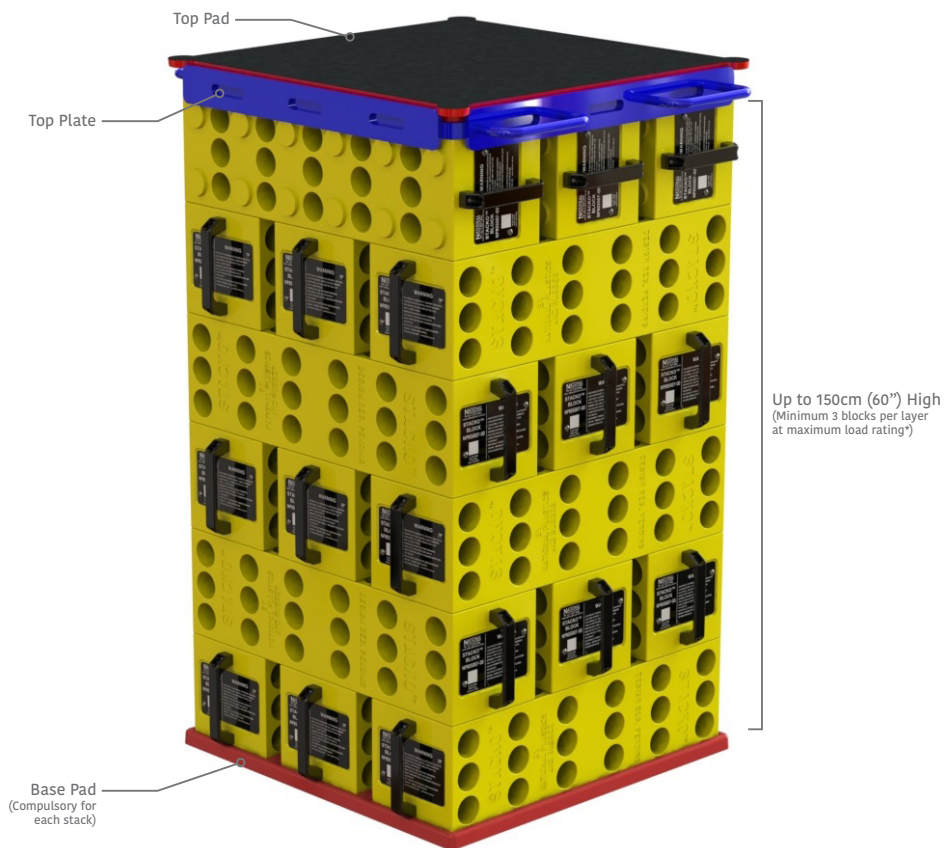
Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# STACK+TOP PLATE+TOP PAD

## EXAMPLE 5

With the steel Top Plate & high traction Top Pad, this is a high load stack that provides an improved grip surface for the item being supported. Suitable for load areas larger than the top plate.

\* all parts sold seperately.



### Top Plate

100kg/sq cm (1422 psi)

### Maximum Load

60,000kg (132,000lb)

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

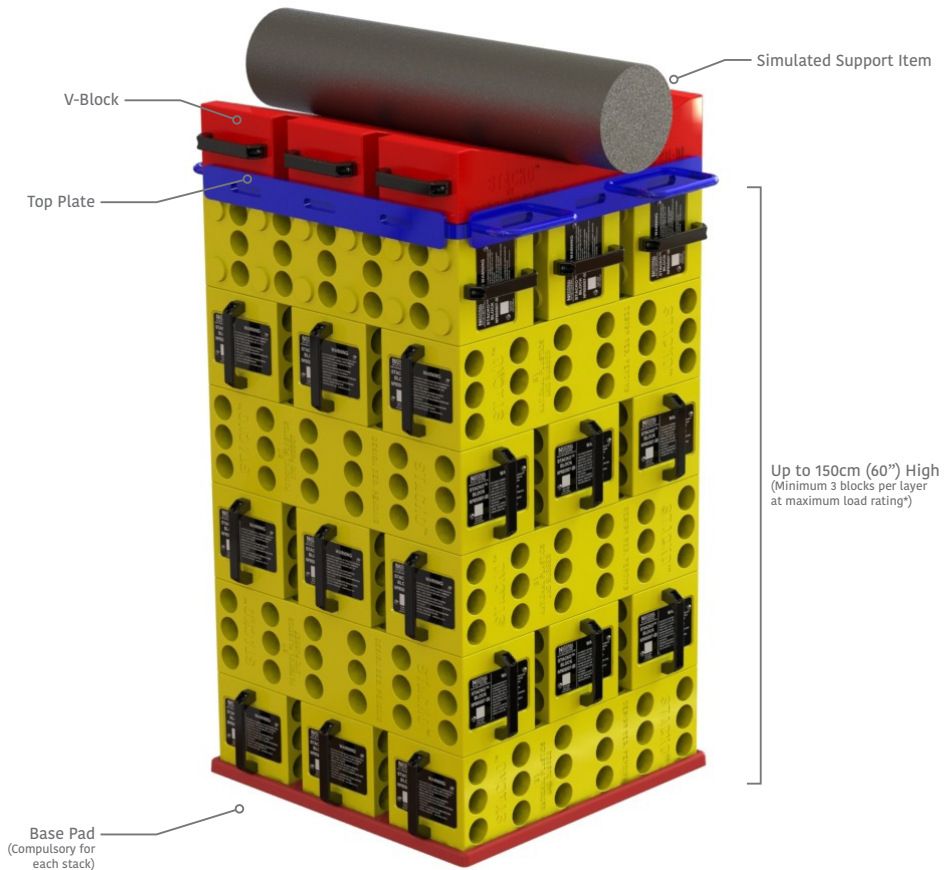
Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# STACK+TOP PLATE+V-BLOCKS

## EXAMPLE 6

Ideal for supporting high load with a curved load face. Higher loads may be possible for diameters above 15cm however you would need to perform your own Risk Assessment.

\* all parts sold seperately.



Minimum Load Diameter	Maximum Diameter	Maximum Load
Ø15cm x 15cm long (Ø6inch x 6inch long)	120cm (48 inches)	40,000kg (88,000lb)**

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

\*\*Higher load certification can be provided upon request.

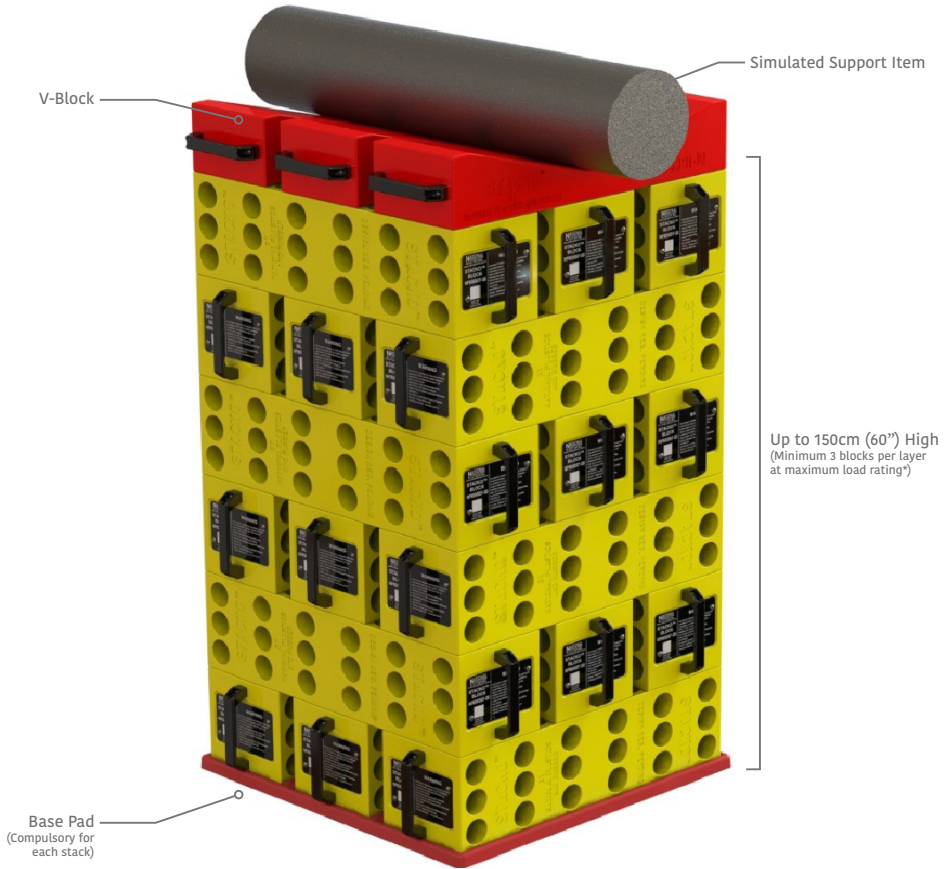
Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# STACKO+V-BLOCKS

## EXAMPLE 7

V-Blocks allow support for loads with a curved base. Higher loads may be possible for diameters above 15cm however you would need to perform your own Risk Assessment.

\* all parts sold separately.



Minimum Load Diameter

Ø15cm x 15cm long  
(Ø6inch x 6inch long)

Maximum Diameter

120cm (48 inches)

Maximum Load

20,000kg (44,000lb)\*\*

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

DO NOT USE 2 Blocks per layer when building a stack.

\*\*Higher load certification can be provided upon request.

Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

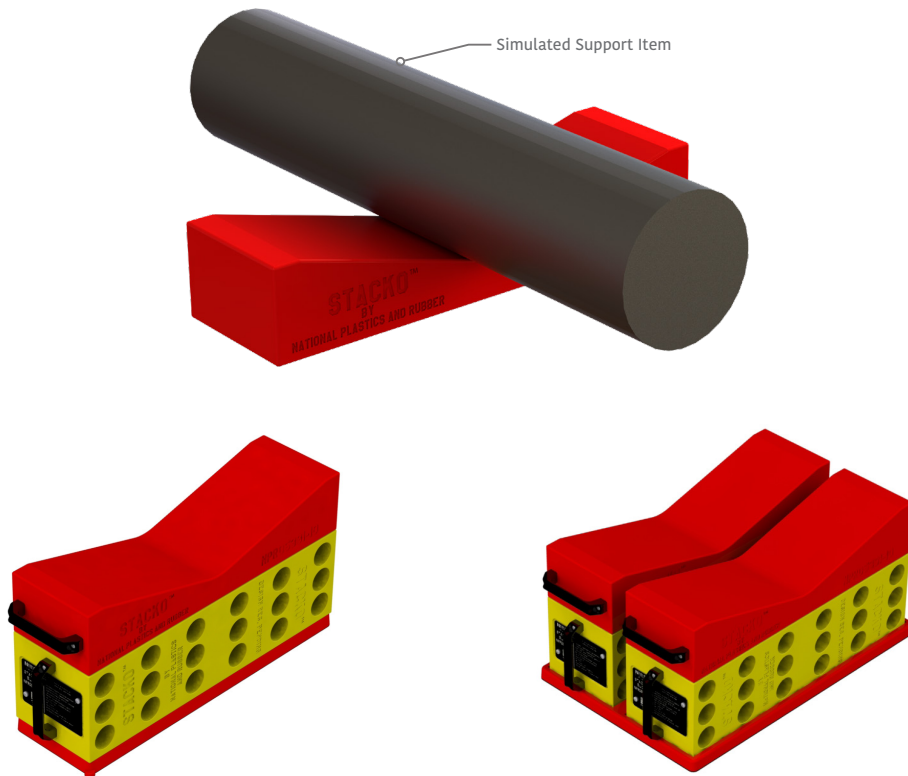


# SINGLE V-BLOCK

## EXAMPLE 8

Higher loads may be possible for diameters above 15cm however you would need to perform your own Risk Assessment. Custom shaped support blocks can be manufactured upon request.

Used on standard, double, or single configurations.



Minimum Load Diameter

Ø15cm x 15cm long  
(Ø6inch x 6inch long)

Maximum Diameter

120cm (48 inches)

Maximum Load

13,000kg (30,500lb)\*\*

Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)

\*\*Higher load certification can be provided upon request.

Example only - perform your own risk assessment. All parts available in Stacko™ Start-up Kit (NPR05458-00).

# DOUBLE STACK CONFIGURATIONS

\* all parts sold separately.

## DOUBLE BASE PAD + DOUBLE TOP PAD

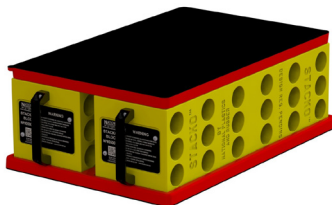
DOUBLE BASE PAD: PART NO. NPR08164-00

DOUBLE TOP PAD: PART NO. NPR08166-00

Suitable for larger load areas with no point loading. Slip-resistant Double Top Pad provides an improved grip surface.

With Patented High Traction Top/Bottom.

Aust. Pat. No. 2017228727

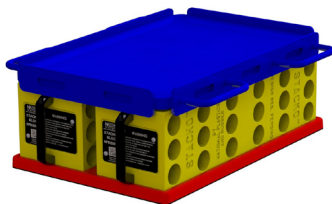


## DOUBLE BASE PAD + DOUBLE TOP PLATE

DOUBLE BASE PAD: PART NO. NPR08164-00

DOUBLE TOP PLATE: PART NO. NPR08165-00

Multi-purpose stack used where load area fits within the Double Top Plate edge.



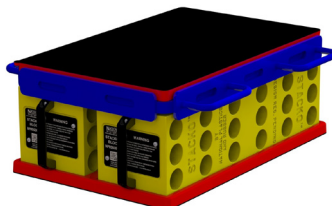
## DOUBLE BASE PAD + DOUBLE TOP PLATE + DOUBLE TOP PAD

DOUBLE BASE PAD: PART NO. NPR08164-00

DOUBLE TOP PLATE: PART NO. NPR08165-00

DOUBLE TOP PAD: PART NO. NPR08166-00

This is a high load stack that provides an improved grip surface. Suitable for load areas larger than the Double Top Plate.



Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)  
Examples only - perform your own risk assessment.

# SINGLE STACK CONFIGURATIONS

\* all parts sold separately.

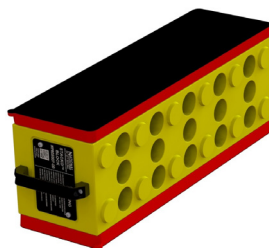
## SINGLE TOP & BOTTOM PAD

SINGLE TOP OR BOTTOM PAD: PART NO. NPR07006-00

Suitable for larger load areas with no point loading. Slip-resistant Single Top Pad provides an improved grip surface.

With Patented High Traction Top/Bottom.

Aust. Pat. No. 2017228727

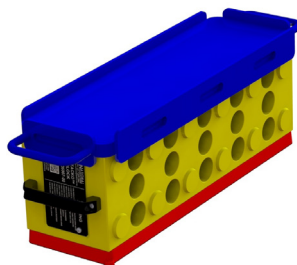


## SINGLE BASE PAD + SINGLE TOP PLATE

SINGLE TOP OR BOTTOM PAD: PART NO. NPR07006-00

SINGLE TOP PLATE: PART NO. NPR08167-00

Multi-purpose stack used where load area fits within the Single Top Plate edge.



## SINGLE BASE PAD + SINGLE TOP PLATE + SINGLE FEMALE TOP PAD

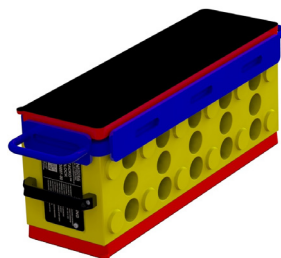
SINGLE TOP OR BOTTOM PAD: PART NO. NPR07006-00

SINGLE TOP PLATE: PART NO. NPR08167-00

SINGLE FEMALE TOP PAD: PART NO. NPR07692-00

This is a high load stack that provides an improved grip surface. Suitable for load areas larger than the Single Top Plate.

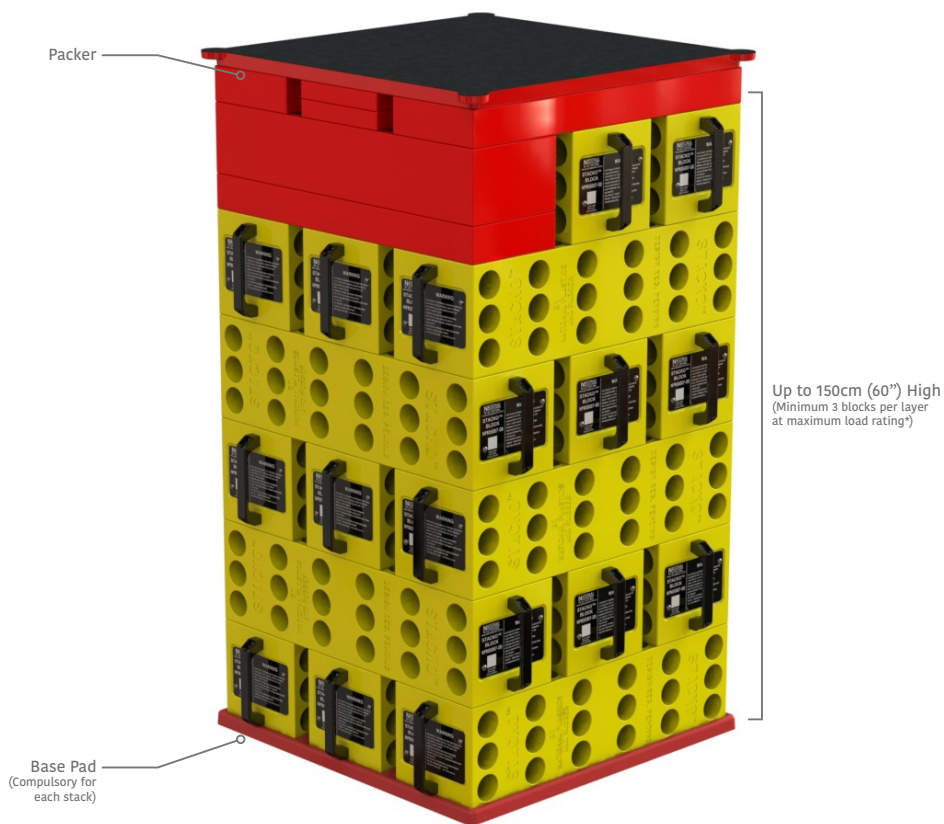
Use Single Female Top Pad with Single Top Plate.



Tested to AS1170.0 2002 with 3:1 Load safety factor at temperature range of -50C (-58F) to +40C (104F)  
Examples only - perform your own risk assessment.

# STACKO™ PACKERS

Load-rated packers are available in 3 different sizes, used to achieve various stack heights across all configurations.

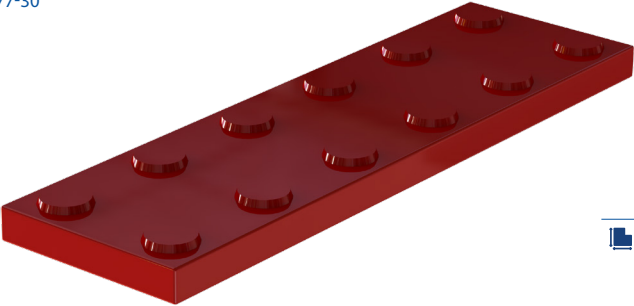




DO NOT USE 2 Blocks per layer when building a stack.



# 2.5CM (1") PACKER

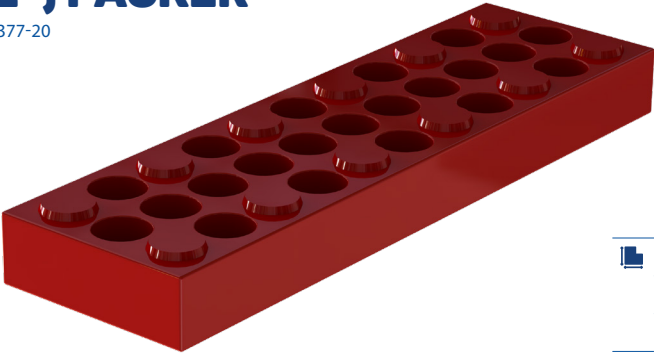
PART NO. NPR05377-30



	510mm (20") L
	150mm (6") W
	25mm (1") D
	2.25kg (5lb)

# 5CM (2") PACKER

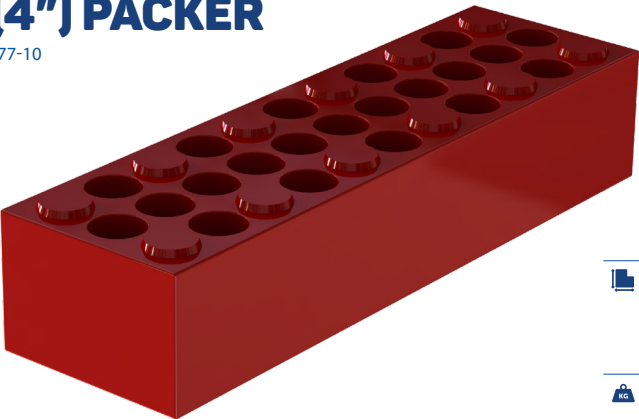
PART NO. NPR05377-20



	510mm (20") L
	150mm (6") W
	50mm (2") D
	3.5kg (7 <sup>1/2</sup> lb)

# 10CM (4") PACKER

PART NO. NPR05377-10

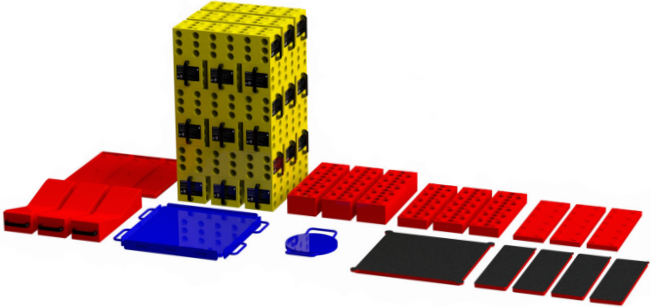


	510mm (20") L
	150mm (6") W
	100mm (4") D
	6.5kg (14lb)

# SUGGESTED START-UP KIT

ORDER AS - NPR05458-00

The suggested Start-up Kit includes components to suit a variety of different load types.



**STACKO™ BLOCK**

PART NO. NPR05007-00

**QTY - 18**

**STANDARD BASE PAD**

PART NO. NPR05362-10  
with Patented High Traction Base

**QTY - 1**

**JACK PLATE**

PART NO. NPR05408-20

**QTY - 1**

**STANDARD TOP PAD**

PART NO. NPR05409-10  
with Patented High Traction Top

**QTY - 1**

**SINGLE V-BLOCK**

PART NO. NPR05391-10

**QTY - 3**

**STANDARD TOP PLATE**

PART NO. NPR05408-00

**QTY - 1**

**PACKERS**

2.5CM (1") NPR05377-30  
5CM (2") NPR05377-20  
10CM (4") NPR05377-10

**QTY - 3 OF EACH SIZE**

**SINGLE TOP OR BOTTOM PAD**

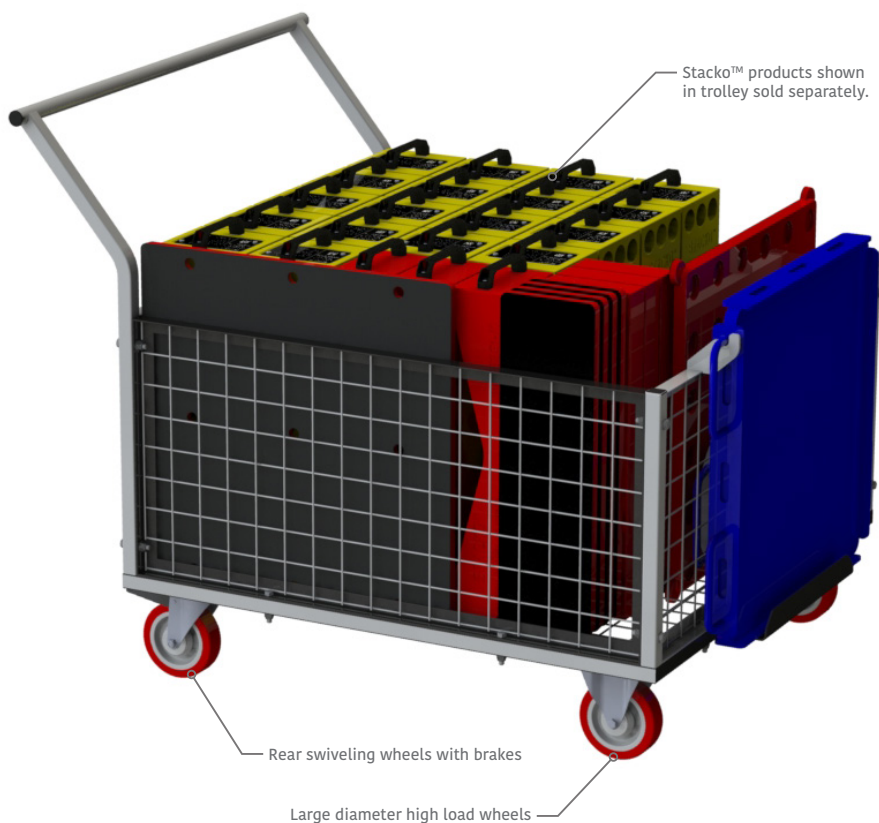
PART NO. NPR07006-00  
with Patented High Traction Top/Bottom

**QTY - 4**

# STACKO™ TROLLEY

PART NO. NPR05369-00

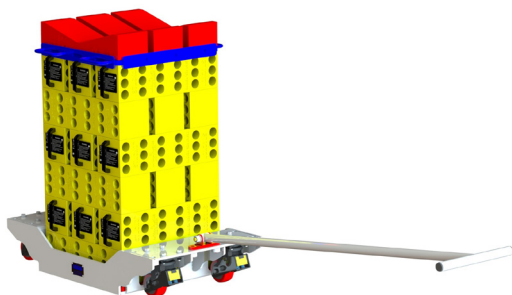
Trolley to suit Start-up Kit. Made from heavy duty steel construction, can be supplied assembled or flat pack.



# STACKO™ SAFE BUILD TROLLEY

PART NO. NPR07829-00

Eliminate the need to go under suspended loads with our newly designed Safe Build Trolley. With retractable wheels, a multi-position handle, moving your stack in and out of place is now easier than ever.



- Build your stack away from machine & wheel into position using the removable handle
- Once in position, the wheels will retract under a load, providing the stack with a secure base plate
- When the load is released, use the removable handle to move / reposition as required





# STACKO™ LOAD RATING GUIDE

As a guide, each Stacko™ Block is rated to withstand an evenly distributed static load of 30kg/cm<sup>2</sup> with minimum load area of 100 square centimetres.

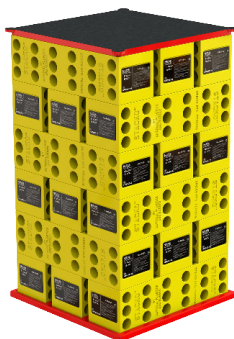
## Round load: 1cm<sup>2</sup> = 30kg



Load rating = area x 30kg

Examples of load ratings:

Diameter	Area	Load Rating
12cm	113cm	3,390kg
16cm	201cm	6,000kg
20cm	314cm	9,420kg
25cm	491cm	14,700kg
30cm	707cm	21,200kg
35cm	962cm	28,800kg
40cm	1,2567cm	37,700kg
45cm	1,590cm	47,700kg
50cm	1,963cm	58,900kg



Stacko™ stack with high traction top pad & base pad.

Load rating: 30kg/cm<sup>2</sup>

Maximum load capacity:  
60 tonne

< 2% deflection at  
maximum load

Tested between -50°C  
to +40°C

Safety factor 3:1

## Quadrilateral load: 1cm<sup>2</sup> = 30kg



Load rating = A x B x 30kg

Examples of load ratings:

Side A	Side B	Area	Load Rating
10cm	10cm	100cm	3,000kg
15cm	15cm	225cm	6,750kg
20cm	20cm	400cm	12,000kg
25cm	25cm	625cm	18,750kg
30cm	30cm	900cm	27,000kg
35cm	35cm	1,225cm	36,750kg
40cm	40cm	1,600cm	48,000kg
44.7cm	44.7cm	2,000cm	60,000kg



Example shown is CAT 785C.

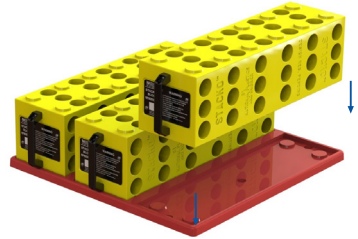
Weight supported by Stacko™ is 29,597kg.

Your own risk assessment must be carried out prior to using this product.

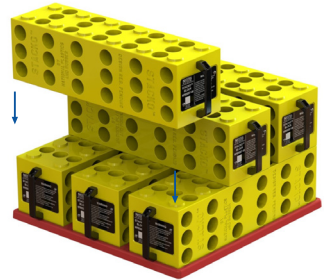
For further information refer to the Stacko™ User Guide or contact National Plastics & Rubber.

# STACK SETUP IS QUICK & SIMPLE

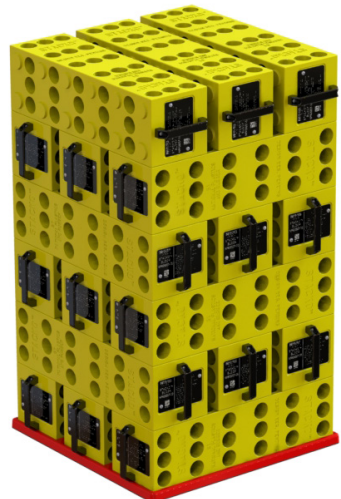
- 1** Inspect all components for damage and serviceability.
- 2** Before using these products you must perform your own risk assessment.
- 3** Position the base on a solid, level surface suitable for the expected load being supported. Place 3 Stacko™ Blocks in the Base Pad grooves to complete the first layer.



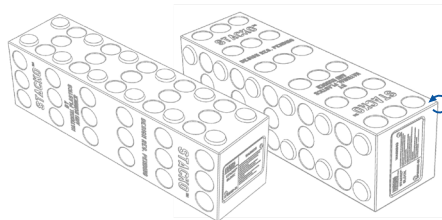
- 4** Begin the second layer by placing another 3 blocks in the opposite direction of the first layer.



- 5** Simply repeat adding layers in alternating directions until the desired height is reached. Up to a maximum of 150cm (60"). Before building the top layer see Step 6.



- 6** Depending on the stack configuration, the top layer of blocks may need to be turned on their side to allow for a flat top surface.



Normal (Lugs Vertical)



Rotated 90° (Lugs Horizontal)



Configuration 2



Configuration 3



Configuration 4



Configuration 5



Configuration 6



Configuration 7



Note: When using Packers ensure the lugs face the correct direction for the top configuration.



Normal (Lugs facing Up)



Rotated 180° (Lugs facing Down)

# CRIBBING BLOCK COMPARISON GUIDE

Can you trust the load rating?

	STACKO™ BLOCKS	PLASTIC CRIBBING BLOCKS	WOOD
Safety factor:	3:1	Unknown	Unknown
Temperature testing range:	-50°C to +40°C	+25°C	Unknown
Low temperature performance (-50°C):	Stable - load rating applies	Load rating unknown - may fracture	Unknown
High temperature performance (+40°C):	Stable - load rating applies	Load rating unknown	Unknown
Tested as:	Single block and crib 150cm high	Single block only	Unknown
Testing standard:	AS1170 (standard for jacks & stands)	Unknown	Unknown
Deflection at maximum load:	<2%	up to 20%	Unknown
Material:	Consistent virgin material	Recycled plastics - made up of unknown material	Unknown
Weight:	8kg	12kg	Unknown
Storage:	UV stabilised - store outside or inside	Internal storage only	Internal storage only
Load rating:	30kg/cm <sup>2</sup> (3:1 safety factor)	58kg/cm <sup>2</sup> (allow up to 10% reduction for recycled material)	Unknown

Would you trust this load rating?

# STACKO™ IN USE



Your own risk assessment must be carried out prior to using this product.  
For further information refer to the Stacko™ User Guide or contact National Plastics & Rubber.





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# WHY STACKO™?

Made from an extremely tough and impact resistant material

Load rated

Laboratory Tested to AS1170

Independently certified

Unique interlocking design for added safety

UV stabilised

Light weight

Splinter free – safer to handle

Long term cost savings

Hi-Vis Yellow

Many configurations for various applications

Manufactured with virgin material to guarantee consistency

Resistant to oil and most workshop chemicals

No splitting or rot problems

Rodent and insect resistant

Salt water resistant

Quality controlled manufacture and testing processes to ensure consistency





# NATIONAL

PLASTICS & RUBBER

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National Plastics & Rubber has the experience and knowledge necessary to meet your needs.

National Plastics & Rubber promotes safe working practices therefore, performing your own risk assessment is essential before using these products.

We specialise in polyurethane, rubber and industrial plastics design and manufacturing for the mining, automotive and manufacturing industries.