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Technical Data Sheet

Date Issued: 07-11-2019
TDS No: TDS-P304 (uncontrolled)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: BP41030LO

Product Description:
BLOX Safety Support and Jacking Block. Stackable Cup and Cone Profile 4cm x 10cm x 30cm, with Lanyard Orange.

Weight:
1.1kg

Working Load Limit (WLL):
122kg/cm^2 (12MPa) at ambient/operating temperature of 25^0 C refer section 3 – Working Load Limit for further WLL data.

Total Block WLL:
36,000kg at 25^0 C

Product Introduction: BLOX Safety Support block is designed to stabilise heavy loads that have been lifted for service, access or repair. The BLOX Safety Support is manufactured from a uniquely formulated compound consisting of recycled high-density polyethylene (HDPE) / Wood / and Polyurethane to create an alternative to traditional timber blocks. Typically, individual pieces are referred to as “blocks” and the structure or stacks are commonly described as “cribs”.

The user must be familiar with the contents of this document and only the user can determine load capacity. Any bending, sagging, deflection, bulging or deforming of the cribs indicates overloaded cribs and additional blocks may be needed. Failure to observe these precautions may result in serious injury or death.

Manufacturer’s Name:
Cribbing and Matting Co. Pty Ltd
Unit 9, 12 Abbott Road
Seven Hills, NSW 2147

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2. **RISK ASSESSMENT**

Always perform your own risk assessment before using this product.
Always know the weight of the equipment being supported. Consult your machinery or vehicle manufacturer manual and guidelines for recommended blocking and lifting points.

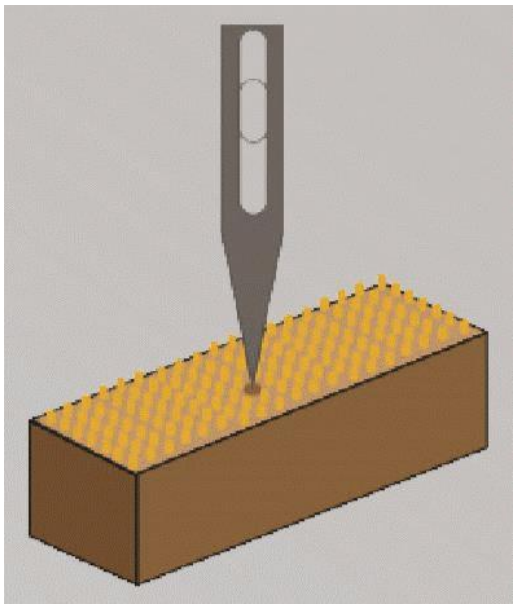
3. **WORKING LOAD LIMIT**

Performance of the BLOX block may be reduced when used in high ambient temperatures. Testing has been conducted with the guidance of AS1170.0.2002 and AS2498:3:1993. Block Total WLL are based on a full press load evenly distributed across the top and bottom surfaces of the block.

@**25**^{0} Celsius			@**50**^{0} Celsius		
MPa	kg/cm^2	psi	MPa	kg/cm^2	psi
12	**122**	**1740**	**8**	**81.5**	**1160**
Block Total WLL @25^{0}C			Block Total WLL @50^{0}C		
36,000kg			**24,000kg**		

Point Loading

Point loading must be avoided.



Sustained Period of Load

The above WLL's are based on a sustained period of loading no greater than 3 months. For longer periods of loading contact Cribbing and Matting co or seek further engineering advice.

Never exceed the WLL for the BLOX Block.
If a load to be supported exceeds the WLL of BLOX Bock a dangerous situation is present and stop the task immediately and take corrective action.

If the BLOX Block is loaded to the point that the block is bending, sagging, deflection, bulging, deforming the WLL has been exceeded and a dangerous situation is present. Build additional crib or cribs to support the load.

BLOX blocks can compress as much as 10 to 20 percent under load.

The BLOX Block in application should be inspected regularly to assure continued stability.

Excessive heat can cause the plastic material to creep, resulting in diminished load carrying capacity. Extreme cold can cause the cribbing material to fracture prematurely.

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4. **PRECAUTIONS for SAFE USE – GENERAL CRIBBING PRINCIPLES**

Inspection

Inspect the BLOX Block for any visible damage before use. For safety do not use the BLOX block if it shows damage such as punctures, cuts, abrasions, cracks or excessive wear and tear or signs of chemical damaged. In addition, if the BLOX block is compressed more that 20% of its original size, the block has reached the end of its useful life and should be disposed of through best recycling practices.

Cleaning

The BLOX block can be power washed to remove dirt and grit if required. If foreign materials have become ground into the block surface, or if the surface contains cracks, cuts or abrasions, the block should be removed from service. Contaminated blocks that cannot be cleaned should also be removed from service.

Precautions to Be Taken in Handling and Storing

No Special Precautions – Good housekeeping practice should be followed. Store BLOX Blocks in a cool, dry area in an unloaded state. Do not store BLOX blocks outdoors. Protect BLOX blocks from freeze thaw cycles. Store BLOX Blocks away from direct sunlight and other sources of ultraviolet (UV) radiation.

BLOX blocks that are Damaged or Reached the end of its useful life

BLOX blocks are manufactured from new composite material that are fully sustainable and when they reach the end of product life can be easily recycled through common industrial waste recycling process. Contact your local recycler to dispose of damaged and unusable cribbing blocks.

Weight Bearing Surface

Be certain that the floor, ground, or all other bearing surfaces are capable of supporting the combined weight of the crib structure and the load to be supported. Never use blocks or build cribbing on loose or unstable ground.

Lanyard Use

Block lanyards are for general carrying of the BLOX block only. Do not allow any person to climb or hang from cribbing. Do not use lanyards as grab handles or as a means of support as block could shift or fall.

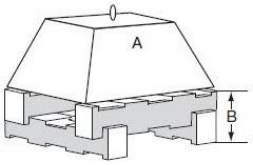
Crib Construction Types

When properly built, cribs transfer the load perpendicular to the blocks, resulting in an even compression of the crib. Cribs are built using one of three basic construction methods.

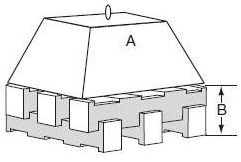
Method 1:

Box cribs are commonly constructed using either a “2 point” or “3 point” crisscross of cribbing blocks positioned at 90° angles. The arrangement may be square or rectangular. Whenever possible, cribs should be built in square or rectangular shapes to maximise load capacity, stability and safety.

2 Point



3 Point



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5. PRECAUTIONS for SAFE USE – GENERAL CRIBBING PRINCIPLES (Continued)

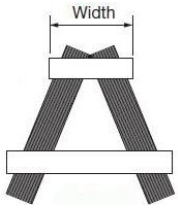
Method 2:

Parallel Cribs are similar to box cribs except that the crisscrossed cribbing blocks are not placed at 90° angles. This configuration is less stable than a box crib and is typically only used when space limitations do not allow for a box crib.

Parallel Crib

Method 3:

Triangle Cribs can be used when there is not enough room for a box or parallel crib. This method provides the least stability but may be the only solution where space is especially limited.



Triangle Crib

6. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% Optional
N/A				

7. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	**N/A**	Specific Gravity (H_2O=1)	**.92-.95**
Vapour Pressure (mm Hg)	**N/A**	Melting Point	**225^{0}C**
Vapour Density (AIR=1)	**0**	Evaporation Rate (Butyl Acetate =1)	**N/A**
Solubility in Water= **0**			
Appearance and Odor= **No Odor**			

8. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
645^{0}C	**N/A**	**N/A**	**N/A**
Extinguisher Media= **Water-Foam-CO_2**			
Special Fire Fighting Procedures= **None**			
Unusual Fire and Explosion Hazards= **None**			

9. REACTIVITY DATA

Stability	Unstable		Conditions to avoid= **Very Strong Oxidizing Agents**
	Stable	**X**	
Incompatibility (Materials to avoid)= **None Known**			
Hazardous Decomposition or Byproducts= **None**			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	**X**	

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10. HEALTH HAZARD DATA

Route(s) of Entry= **No**	Inhalation?= **No**	Skin?= **No**	Ingestion?= **No**
Health Hazards (Acute and Chronic)= **None**			
Carcinogenicity= **None**	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure= **None**			
Medical Conditions Generally Aggravated by Exposure= **None**			
Emergency and First Aid Procedures= **None**			

11. CONTROL MEASURES

Respiratory Protection (Specific Type) =**N/A**		
Ventilation	Local Exhaust= **When Cutting**	Special= **None**
	Mechanical (General)= **None**	Other= **None**
Protective Gloves= **When Cutting**	Eye Protection= **When Cutting**	
Other Protective Clothing or Equipment= **None**		
Work/Hygienic Practices= **Normal Hygiene**		

12. CHEMICAL RESISTANCE POLYETHYLENE – PE

Polyethylene – Very Good Chemical Resistance	**Polyethylene – Good Chemical Resistance (continued)**
Acetatic Acid	Motor oil
Ammonium hydroxide 30%	Mercal oil
Calcium hydroxide 30%	Natural gas
Diethylene glycol	Gasoline
Ethylene glycol	Phenol
Ethanol 100%	Transformer oil
Glycerin	Vaseline
Glycol	**Polyethylene – Medium Chemical Resistance**
Hydrogen peroxide 30%	Dibutylether
Mercury	Ethylene acetate 100%
Methanol	Furfurol 100%
Potassium hydroxide 30%	Heptane
Sodium hydroxide 30%	Paraffin
Polyethylene – Good Chemical Resistance	**Polyethylene – Poor Chemical Resistance**
Acetone	Diethylether
Formaldehyde 10-40%	Ethylenechloride
Gas oil	Hydrogen peroxide 90%
Caproic acid	Methylene chloride
Iodine	**Polyethylene – No Chemical Resistance**
Isobutanol	Acetylene dechloride
Isopropanol	

13. TERMS AND CONDITIONS OF USE

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