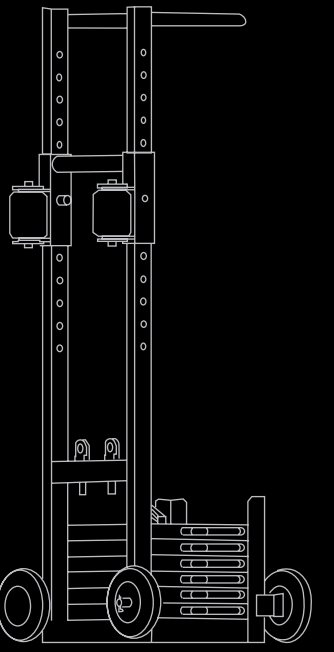
I|S|C



Deadweight Trolley

CE 0120

1 + 2

climb. work. rescue.

Deadweight Anchors

DW100.2 Deadweight Trolley

General Usage

This DW100 Deadweight Trolley is primarily designed and tested to be used as a portable anchor device for Rope Access (work positioning) systems/activities.
The DW100 Deadweight Trolley has been tested in accordance with EN795: 2012 Type E by SATRA in the UK and CE marked accordingly.
The unit has been further tested and found to meet the requirements of PD CEN/TS 16415: 2013 'anchor devices for two person rescue' and also the IRATA and SPRAT ICoP requirement that anchors for rope access must meet a 15kN static test.
For rope access standard requirements please refer to ISO 22846-1:2003, BS7985: 2002, BS EN12841: 2006, BS7883 or equivalent international standards and Codes of Practice.

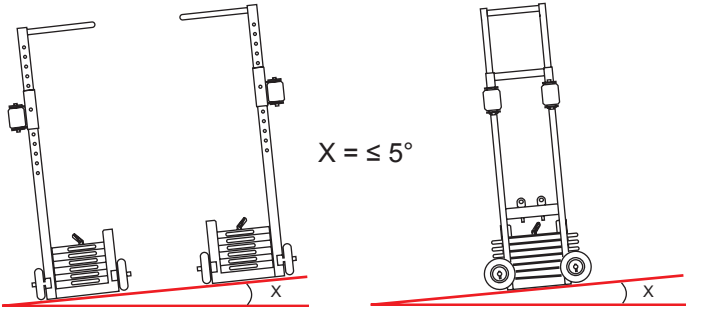
Installation Considerations

- Roof surface is appropriate, i.e. Surface material, ballast, water, foreign matter, angle. All of these factors could affect the frictional resistance of the device and create a hazard
- All loose surface material should be removed before installation of the device

Users of this equipment shall be able to demonstrate either in-house expertise or hold suitable training certificates in Working at Height / industrial rope access
Rescue – The device has a Working Load Limit of 200kg (440lbs) but can be used for a 2 person load in a rescue situation in accordance with PD CEN/TS 16415: 2013
There must be sufficient free space beneath the user at the work area before each occasion of use, so that in the case of a dynamic event there will be no collision with the ground or other obstacles in the fall path.

A General Limitations

1



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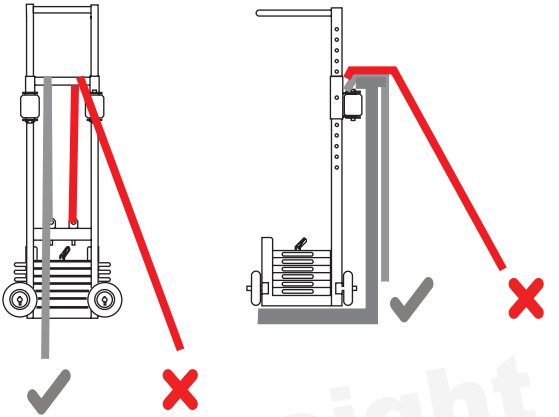

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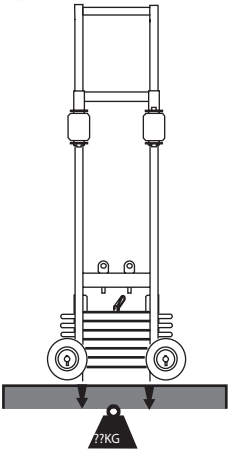

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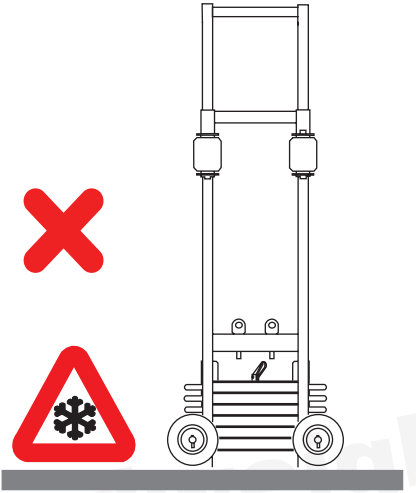

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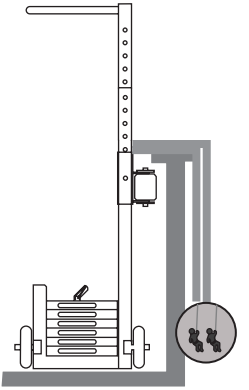
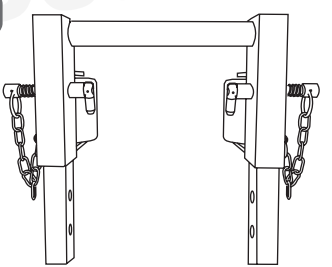


[A] General Limitations

1. The Deadweight Trolley should not be used on a surface that slopes more than 5°.
2. The Deadweight Trolley must be used so that the operator is in line with the equipment's direction to prevent the possibility of a pendulum occuring in the event of a fall
3. Ensure that the strength of the structure is adequate
4. The Deadweight Trolley should not be used on frozen surfaces. The presence of ice may cause the unit to slip
5. The Deadweight Trolley is for use by a single person. In the event of a rescue being required, the Deadweight Trolley can be used with a 2 person load in accordance with PD CEN/TS 16415: 2013
6. Do not use Deadweight Trolley outside of its limitations as outlined in this manual
7. The user shall be equipped with means of limiting the maximum dynamic forces exerted on the user during a dynamic event to less than 6kN
8. If the intention is to combine PFPE for Fall Arrest with Deadweight Anchors the user should seek guidance from the manufacturer as to its suitability. Always ensure that all components within a safety system are compatible and allow the system to function safely

B Specific Use

1



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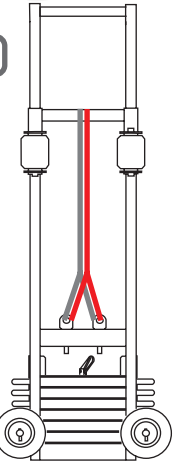
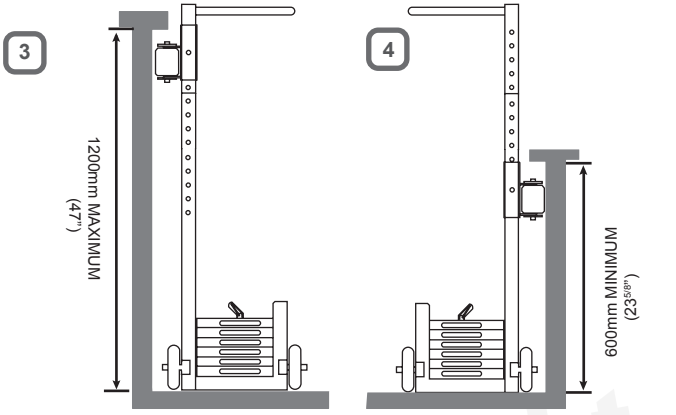




[B] Specific Use

The Deadweight Trolley must be used up against a structural wall or parapet. The Roller Carriage should be adjusted so that the top bar is just higher than the coping. The rollers should not be in contact with the copings.

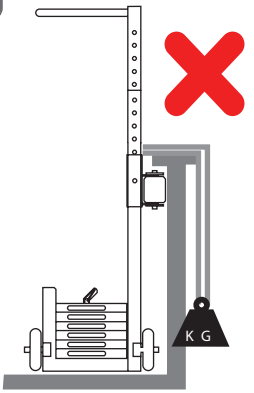
1. The Roller Carriage is adjusted by removing the sword pin from either side. Sliding the carriage to the desired height and replacing the pins in correct height adjustment holes
2. The DW100 is designed to be used as part of a roped access system with twin ropes, work positioning harness and associated equipment
3. The DW100 should be used with a parapet wall with a maximum height of 1200mm
4. The DW100 should be used with a parapet wall with a minimum height of 600mm

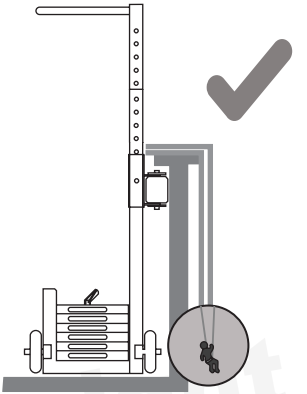
[C] Repair and Servicing

The end user may only carry out repair / replacement to wheels and sword pins

1. Wheel Replacement: Remove pins and washers. Replace the wheel(s) and reattach using pins
2. Sword pin replacement: Prise open Darlaston Washer with a flat headed screwdriver. Insert chain-link of new sword pin and close Darlaston Washer with a soft-faced hammer

1





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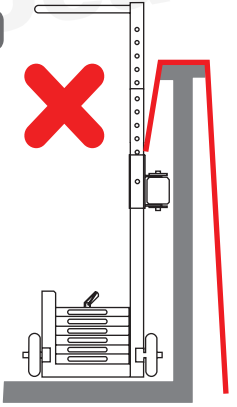
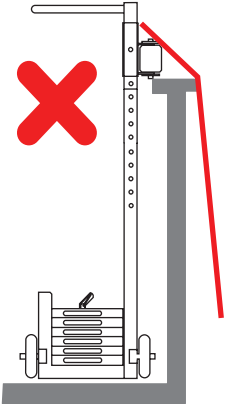
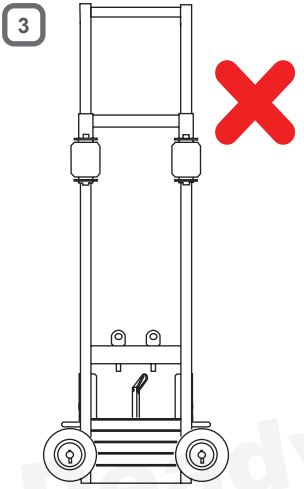
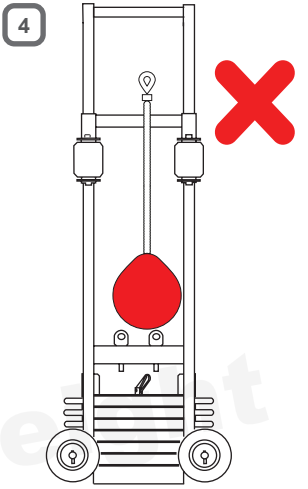


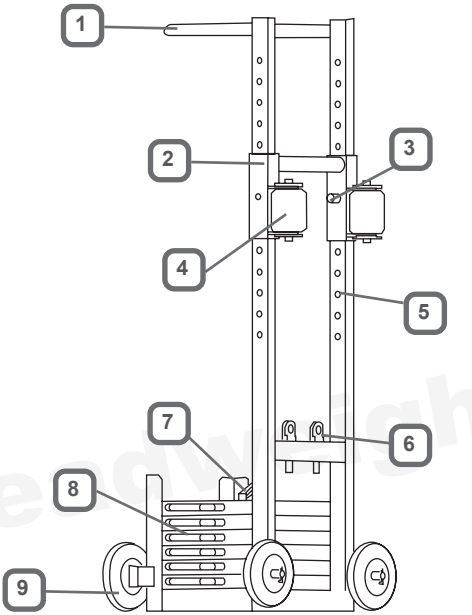






[D] Misuse

1. The Deadweight Trolley should only be used for people. It should not be used for suspending loads
2. The Roller Carrige must be set at the correct height for the parapet wall and coping
3. All weights must be used at all times. Weights may need to be secured to the frame by passing a chain through the handles and the frame to prevent tampering during use
4. Do not use the Deadweight as an anchor for Self Retracting Lanyards



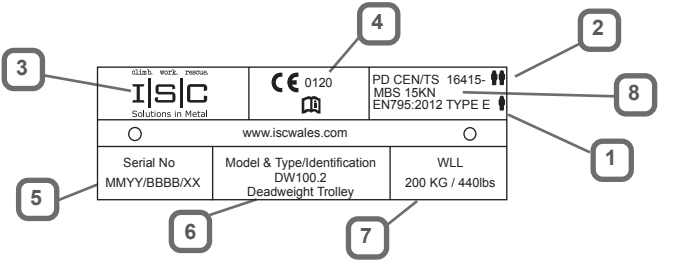
[E] Nomenclature

1. Handle
2. Top Bar / Roller Carriage
3. Sword Pins
4. Nylon Roller
5. Height Adjustment Holes
6. Anchor Points
7. Antiluce Pin
8. Weight
9. Rubber Wheel

Assembly

Place all 6 weights over shaft and fold over Antiluce pin

F Markings and Conformity



[F] Markings and Conformity

1. Meets EN795: 2012 Type E
2. PD CEN/TS 16415: 2013 – Recommendations for anchor devices for use by more than one person simultaneously
3. Manufacturers Identification
4. Notified Body controlling the manufacture of PPE
5. Serial Number
6. Model Identification
7. Working Load Limit
8. 15kN (3372lbf) in accordance with IRATA ICoP and other leading industry guidance

[G] Pre-Use Inspection

1. Eyebolts: Ensure all eyebolts are securely attached
2. PPE Discs are present and in date
3. Weights: Ensure all weights are in place and secure
4. Sword Pins: Ensure all sword pins are in place and secure
5. Wheels: Ensure all wheels are secure, and functioning

[H] Thorough Inspection

1. The device should be periodically inspected by a competent person in line with local and current legislation. The PPE discs located at the Anchor points [1] should also be replaced by the competent person at the same time and marked with next inspection date
2. In the event of a dynamic event the device must be withdrawn from use and inspected. It should not be put back into service until signed off by a competent person
3. If any irregularities are found, then parts may be replaced or the device should be removed from use

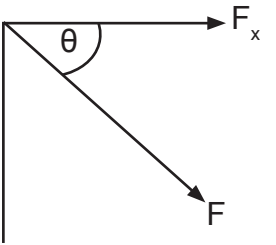
- Dents or loss of section
- Missing weights
- Damaged eye bolts
- Damaged welds

[I] Care and Maintenance

1. The device is finished with a powder coating, this will chip over time so it is recommended that any exposed metal is kept rust free and touched up with a weather resistant, metal paint. It is recommended that all working parts are lubricated on a periodic basis with a suitable lubricant such as a light oil. It is recommended that the device is stored under cover at night and in the event that it becomes wet, it is dried and stored in a well-ventilated area away from direct heat
2. The device should be stored in a clean, dry environment free from corrosive or chemical substances. Care should be taken to protect the device against damage during transportation

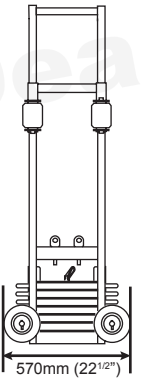
1	30nM / 20.65lbF

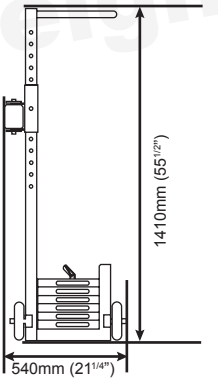
2



$F_x = \cos\theta \times F$

3





[J] Technical Information

1. Anchor Point bolt torque setting
2. Lateral Force Calculation - Use this formula to work out the force that will be exerted on the upstand by a loaded DW100
3. Dimensions
4. Total weight of Unit - 178kg (392lbs)

Product Record

1					
2					3
4					5
6					7
8	9	10		11	12
		✓	✗		
		✓	✗		
		✓	✗		
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		✓	✗		
		✓	✗		

Product Record Details

climb. work. rescue.

1	Item
2	Serial Number.
3	Year of manufacture
4	Purchased from
5	Purchase date.
6	Name of Manufacturer
7	Date of first use.
8	Inspection date.
9	Reason (periodic examination (E) or repair (R)).
10	Conform.
11	Comments.
12	Signature.

Approvals

Notified Body having carried out the CE type test (Art. 10): EN795:12,
PD CEN/TS 16415:13.
Oznámený subjekt, který provedl test typu CE (čl. 10): EN795:12,
PD CEN/TS 16415:13.
Den underrettede myndighed har foretaget CE-typetesten (Art. 10): EN795:12,
PD CEN/TS 16415:13.
Zuständige Stelle, die die CE-Typ-Prüfung durchgeführt hat (Art. 10): EN795:12,
PD CEN/TS 16415:13.
Autoridad notificada tras realizar la prueba de tipo CE (Art. 10): EN795:12,
PD CEN/TS 16415:13.
CE-tyyppitestauksen suorittanut ilmoitettu laitos (artikla 10): EN795:12,
PD CEN/TS 16415:13.
Organisme notifié ayant mené le test de type CE (Art. 10): EN795:12,
PD CEN/TS 16415:13.
Organismo notificato che ha condotto il test di conformità CE (ai sensi dell'Art. 10): EN795:12,
PD CEN/TS 16415:13.
De aangemelde instantie die het CE-typeonderzoek heeft uitgevoerd (Art. 10): EN795:12,
PD CEN/TS 16415:13.
Teknisk kontrollorgan som har utført CE-typetesten (art. 10): EN795:12,
PD CEN/TS 16415:13.
Odpowiednia organizacja, która przeprowadziła test CE (art. 10): EN795:12,
PD CEN/TS 16415:13.
Órgão notificado que realizou o tipo de teste CE (Art.º 10): EN795:12,
PD CEN/TS 16415:13.
Anmält organ som har utfört CE-typtest (art. 10): EN795:12,
PD CEN/TS 16415:13.

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Northamptonshire,
NN16 8SD.
U.K.

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Unit 202B,
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climb. work. rescue.

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