



## **D Ring Loops DR120**

### **USER OPERATING INSTRUCTIONS**



**Read instructions fully before use.**

**It is recommended that training be given on the proper use of this product.**

**Retain this manual for future reference.**

**Include it with the product in the event of transfer to new users.**

**Additional copies are available upon request.**

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# CONTENTS

- A. Limitations of Use
- B. General Guidance
- C. Before using the restraint
- D. Fitting the D Ring Loops
- E. Removing and Storing
- F. Maintenance

## A. LIMITATIONS OF USE

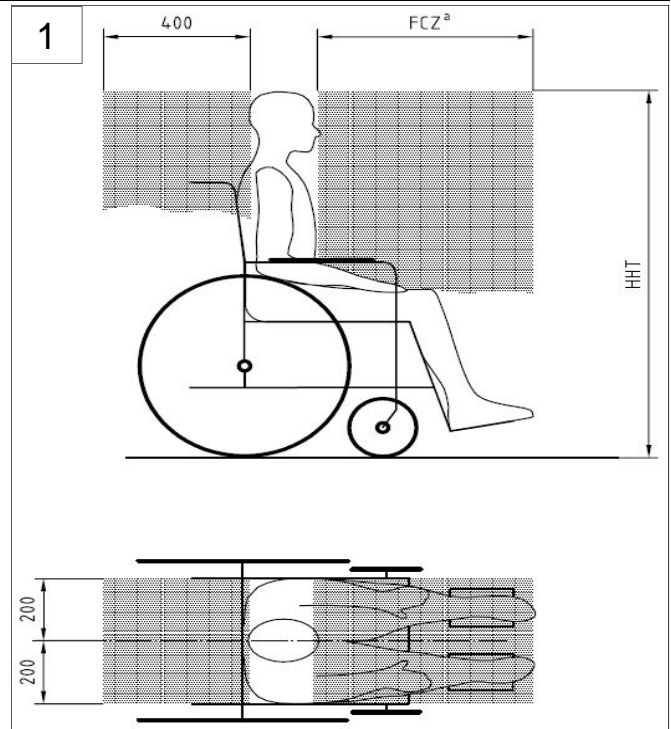
1. The “D” Ring Loops are designed to fit between the rear wheelchair tiedown positions and the top end of the rear restraints.
2. They must be used as a pair.
3. They are used when the rear restraints cannot be directly attached to the wheelchair.
4. They should not be used with wheelchair weight greater than 120kg.
5. Where the wheelchair weight exceeds 120kg please refer to Unwin Safety Systems for further guidance.
6. Unwin products are extensively tested using Unwin Rail and our full warranty applies to Unwin equipment fitted and used in accordance with our instructions. Unwins have also participated in test programs with other manufacturers and will support warranty on the Unwin products when used in conjunction with such jointly tested systems. For further details on specific applications please contact the Sales Office. In other situations where Unwin has not participated in joint test programs, a limited Unwin warranty will apply.

## B. GENERAL GUIDANCE

1. Please read this manual before using the equipment.
2. Regular inspection of all parts is recommended and the equipment should be used only if all components are in good condition.
3. Replace equipment when the webbing becomes cut, contaminated or frayed.
4. Any equipment which has been subjected to a crash situation, should, in the interest of safety, be replaced immediately.
5. Do not attempt to modify the equipment. If there is a problem please contact Unwin Safety Systems.
6. Avoid contact with corrosive liquids and keep the webbing away from sharp edges. Care should be taken to prevent contamination of the webbing with polishes, oils and chemicals.
7. If the proposed installation cannot be made to comply with the following requirements, please contact Unwin Safety Systems.

## C. BEFORE USING THE RESTRAINT

1. Ensure that the wheelchair is appropriate for the tiedown being used.
2. To minimise the potential for head injuries in an impact, it is recommended to allow a clear space of at least 400 mm behind and 650 mm for 3 point systems or 950mm for 2 point systems in front of the head of the wheelchair user when positioning the chair for transit. A height provision ranging from 1200mm to 1550mm should be made, depending on the size of the passenger. There should also be 200 mm of clear space either side of the wheelchair centre line. If these clear space dimensions cannot be provided, then any object that protrudes into the wheelchair space should be well padded.
3. Electric wheelchairs may require an additional strap to secure the batteries.



## D. FITTING THE D RING LOOPS



1. Position the webbing of the “D” ring loop around the attachment point, stick the webbing ends together using the Velcro (Fig 2) and fit the Karabiner hooks onto the two “D” ring loops.
2. Repeat for the second position.
3. Tension the restraint system as normal.



## E. REMOVING AND STORING

1. Unfasten the restraint system and remove Karabiner hook from the D Ring Loops.
2. Unfasten the Velcro and remove the D Ring Loop from the wheelchair frame.
3. Store the D rings safely off the floor to avoid damage and ensure that it would not become a projectile in an accident. This can be achieved by using wall mounted storage rails or a stowage box.

## F. MAINTENANCE

1. Regularly inspect the equipment for damage, wear or malfunction. If any problems are identified replace it immediately.
2. All webbing and components can be cleaned as necessary, but care should be taken to prevent contamination of the webbing with polish, oils and chemicals.
3. To clean the straps use warm soapy water and a clean soft cloth. Rinse with clear water, and allow to air dry. To disinfect use a mild spray disinfectant and do not use products containing bleach. **IMPORTANT: when cleaning or disinfecting do not immerse buckles or rail fittings in the disinfectant or water.**
4. If the vehicle is involved in an accident when any equipment are deployed, remove them from service and replace immediately. If in doubt please contact Unwin Safety Systems.



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