

1. PURPOSE

The purpose of this procedure is to ensure product and material delivered to and produced by BBRG Australia and carried in crates complies with industry safety standards for positioning and restraint of the load.

2. SCOPE

This procedure applies to BBRG Australia personnel (primarily Warehouse/Despatch), customers, transport drivers and providers responsible for loading, restraining and transporting Ropes material and products via road transport.

3. REFERENCES

National Load Restraint Guide (2018), Published by National Transport Commission

WRW-WH-SOP-001 BBRG Australia Transport Specification

WRW-WH-SOP-113 Load Restraint - Equipment Guideline.

WRW-OHS-SOP-002 CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD

4. RESPONSIBILITIES

Process owner Operational Support Superintendent

5. QUALIFICATION, TRAINING & COMPETENCE REQUIREMENTS

Load restraint training.

6. DEFINITIONS

7. RECORDING / REPORTING REQUIREMENTS

These guidelines are provided by Bekaert Wire Ropes Pty Ltd (trading as BBRG Australia) for guidance only. Compliance with applicable laws and standards remains your responsibility.

They are based on guidelines provided to preceding entities under license from BlueScope Steel. Whilst BBRG, in co-operation with transport operators, has taken considerable care to develop load restraint guidelines that are effective and comply with all requirements, BBRG makes no warranty as to the applicability of these methods in all circumstances.

It remains your responsibility, at all times, to ensure that the methods you use are adequate for the particular situation and, where applicable, you should take further precautions.

These guidelines are confidential to, and the property of, BBRG and you may only use these guidelines with permission of BBRG.



CONTENTS

WIRE & SOCKET CRATES3

COIL CRATES4

WIRE & SOCKET CRATES

This Guideline applies to:

- Crates carrying wire spools, bobbins or sockets
- Empty crates



Essential Requirements

- ✓ Checks crates suitability/condition prior to loading.
Broken or damaged crates are NOT to be used and should be tagged out of service.
- ✓ Spools, bobbins or sockets are to be secured in the crate so that they cannot come loose when a horizontal force of 0.8g or a vertical force of 0.2g are applied to them.
- ✓ Place rubber strips or mats between the crates and the trailer deck. Friction is to be at least 0.4 static.
- ✓ Crates must be restrained by at least **one webbing strap for every 2.1 tonnes**, as showing in Figure 1.
- ✓ Webbing must be fit for use and have a minimum lashing capacity of **2.0 tonnes**, and comply with Australian Standard AS4380 or equivalent.
- ✗ **DO NOT** double stack crates containing sockets or spools and bobbins carrying wire.
- ✗ **DO NOT** mix crates with stems or coils.

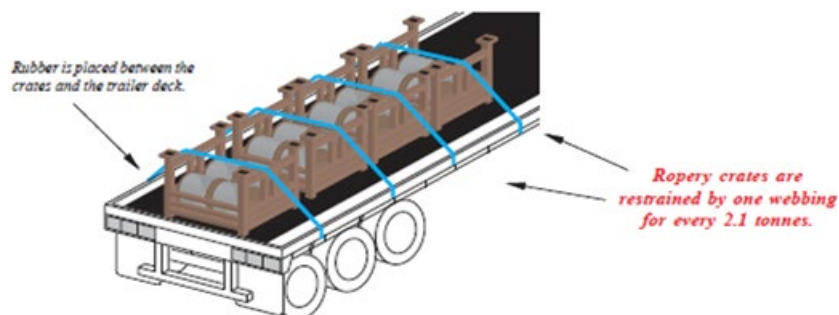


Figure 1: Crates restrained on truck

Empty Crates

- ✓ Empty crates can be stacked a maximum of two high.
- ✓ Each row must be restrained by at least one webbing strap.
- ✓ Empty spools and bobbins may be carried in the crate.
- ✓ The head board and tail gate crates should be positioned with the doors facing inwards, in case they were to open in transport.

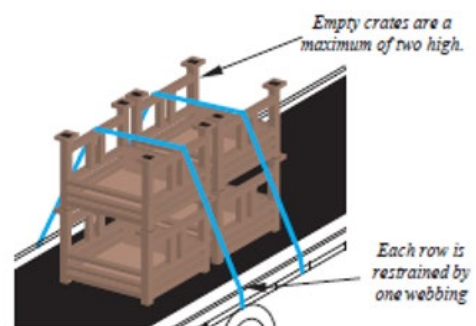


Figure 2: Empty crates restrained on truck

COIL CRATES

This Guideline applies to:

- Coil crates
- Coil crates that weigh no more than 600kg when loaded
- Coil crates that weigh no more than 245kg when empty

Essential Requirements

- ✓ Coils are to be secured within the crate so that they cannot come loose when a 0.8g force is applied.
- ✓ Place anti-slip rubber between the crates and the trailer deck. Rubber can be strips, mats or squares.
- ✓ Webbing must be fit for use and have a minimum 2.0 tonne lashing capacity, that meets AS4380 or equivalent.
- ✗ DO NOT double stack crates containing product.

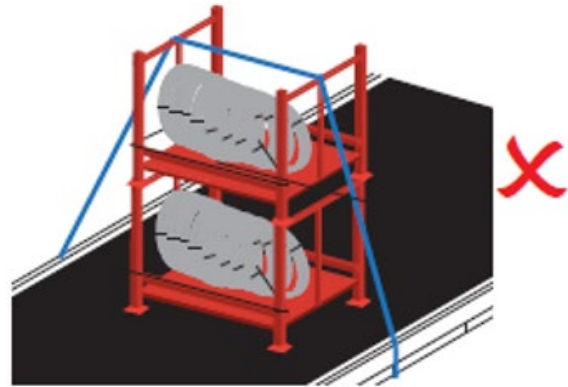


Figure 1: Do NOT double stack crates containing product

Single File

- ✓ Olex coil crates must be restrained by at least one webbing as shown in Figure 1 & 2.

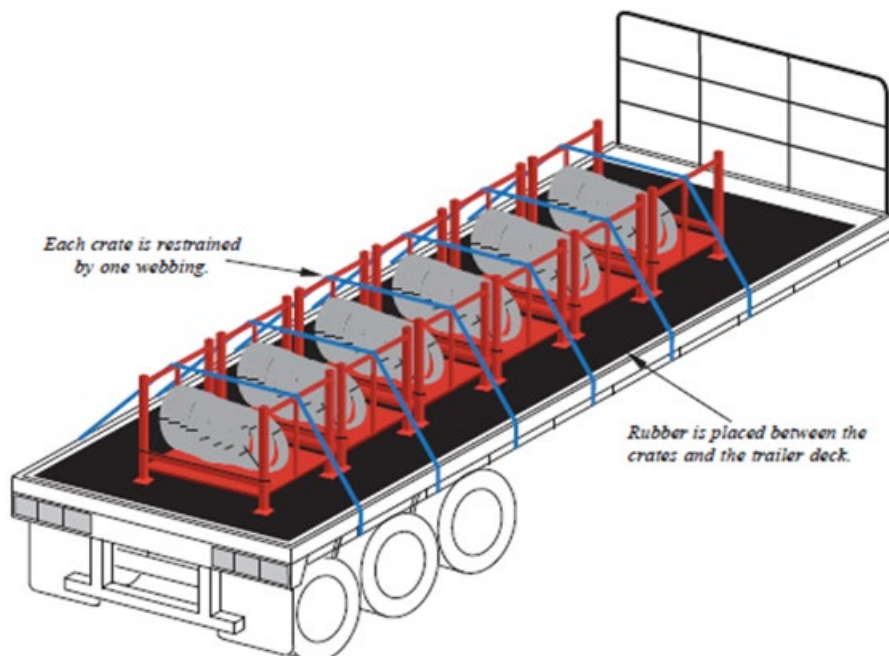


Figure 2: Single file coil crates restrained to truck

Two Abreast

- ✓ Olex coil crates must have one direct webbing restraint angled back at least 800mm as shown in Figure 3.
- ✓ Olex coil crates must have one direct webbing restraint angled forward at least 800mm as shown in Figure 3.
- ✓ Direct Restraints must be placed above the floor of the crates as shown in Figure 3.

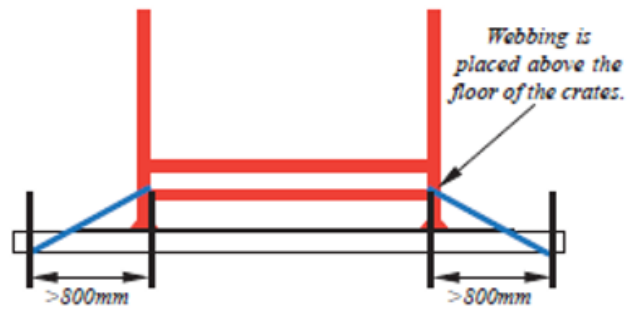


Figure 3: Side View: Direct restraints angles forward and back at least 800mm

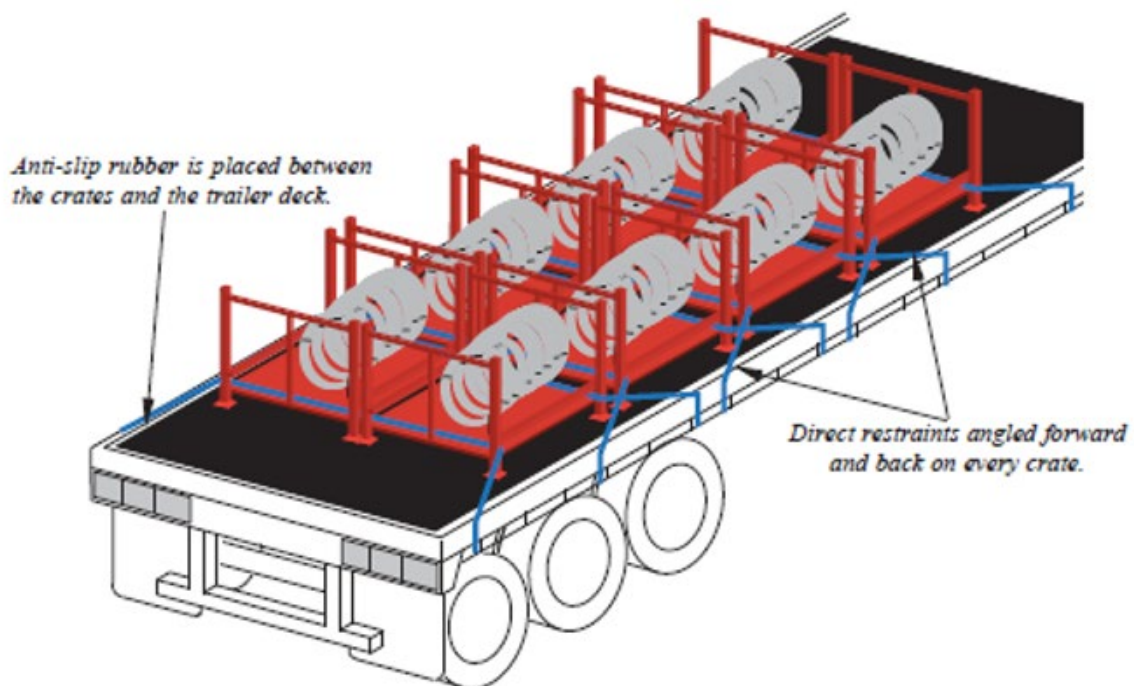


Figure 4: Two abreast coil crates restrained to truck.

Empty Crates (Non-collapsible)

- ✓ Can be stacked a **maximum of two high**.
- ✓ Each row must be restrained by at least one webbing.

Empty Collapsible Crates

- ✓ Must be stacked in their **collapsed** state
- ✓ Can be stacked to a **maximum of four high**.
- ✓ Each stack is to be restrained by at least one webbing with a minimum 2.0 tonne capacity.

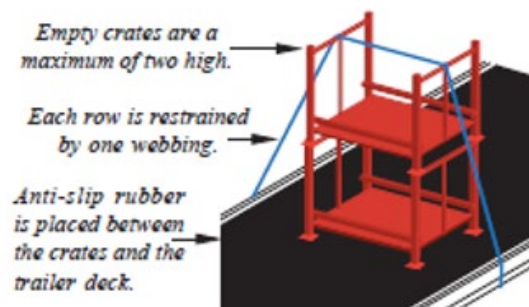


Figure 5: Empty crates restrained to truck.

STANDARD OPERATING PROCEDURE

LOAD RESTRAINT – CRATES



VERSION HISTORY

Version	Issue Date	Key Changes	Authorised by	Review Date
3	24/9/2018	Rebranded as BBRG. Migrated from previous entity (MolyCop/OneSteel) guidelines (based on BlueScope LRG91 v1 29/1/2011, LRG109 v1 31/8/2009).	BR	24/09/2020
4	10/5/2021	New bullet point on page 3	GC	10/5/2024
5	15/09/2021	New owner of the document – Operational Support Superintendent	GC	15/9/2024
6	08/04/2024	Branding Update	PB	08/04/2027