

WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/22)**

Montréal, 21 to 25 November 2022

- Agenda Item 2: Managing air-specific safety risks and identifying anomalies (REC-A-DGS-2025)**
2.2: Develop proposals, if necessary, for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2025-2026 Edition

THE MAXIMUM PERMITTED STACKING LOAD APPLICABLE FOR OVERPACK WITH IBCS

(Presented by P. Guo)

SUMMARY

This working paper proposes to clarify the maximum permitted stacking load applicable to an overpack with one or more IBCs.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 In accordance with Part 6;8.1.3 of the Technical Instructions, the maximum permitted stacking load applicable when an intermediate bulk container (IBC) is in use must be displayed on a symbol as shown in Figure 6-2 or Figure 6-3. The symbol must be durable and clearly visible.

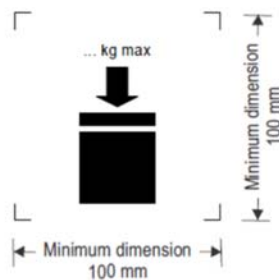


Figure 6-2. IBCs capable of being stacked

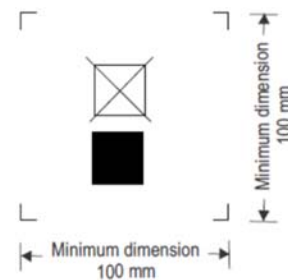


Figure 6-3. IBCs not capable of being stacked



1.2 When an overpack is used, marks for the maximum permitted stacking load and applicable special handling instructions appearing on IBCs inside the overpack may not be clearly visible, and must be marked on the overpack.



1.3 When an overpack is used, the IBCs may be stacked in the overpack, the maximum permitted stacking load for the whole overpack may be less than the IBCs in it. Now, the maximum permitted stacking load for the whole overpack must be marked on the overpack.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider the maximum permitted stacking load applicable to an overpack with one or more IBCs either by:

- a) revising Part 5;2.4.10.1 as shown in Appendix A to this working paper; or
- b) revising Part 6;8.1.3 as shown in Appendix B to this working paper.

APPENDIX A

AMENDMENT TO PART 5 OF THE TECHNICAL INSTRUCTIONS

Part 5

SHIPPER'S RESPONSIBILITIES

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Chapter 2

MARKING

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2.4.10 Marking of overpacks

2.4.10.1 Unless marks and labels representative of all dangerous goods in the overpack are visible, the overpack must be:

- a) marked with the word "OVERPACK". The lettering of the "OVERPACK" mark must be at least 12 mm high; ~~and~~
- b) labelled and marked with the proper shipping name, UN number and other marks, as required for packages in accordance with this chapter and Chapter 3, for each item of dangerous goods contained in the overpack; and
- c) displayed on a symbol as shown in Figure 6-2 or Figure 6-3 about the maximum permitted stacking load for the whole overpack when IBCs packages inside the overpack.

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APPENDIX B

AMENDMENT TO PART 6 OF THE TECHNICAL INSTRUCTIONS

Part 6

PACKAGING NOMENCLATURE, MARKING,
REQUIREMENTS AND TESTS

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Chapter 8

REQUIREMENTS FOR INTERMEDIATE BULK CONTAINERS

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8.1.3 The maximum permitted stacking load applicable when the IBC and overpack with IBC is in use must be displayed on a symbol as shown in Figure 6-2 or Figure 6-3. The symbol must be durable and clearly visible. The maximum permitted stacking load applicable on the overpack is for the whole overpack when an overpack is used.

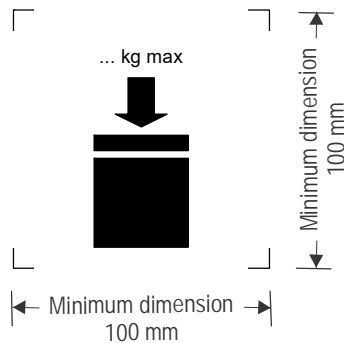


Figure 6-2. IBCs capable of being stacked

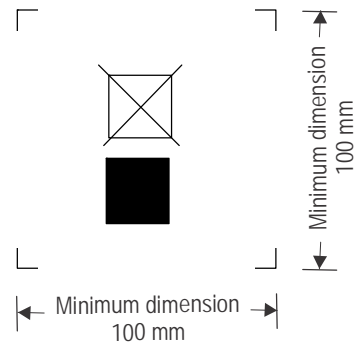


Figure 6-3. IBCs not capable of being stacked

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