United Nations ECE/TRANS/WP.11/2022/6/Rev.1

Economic and Social Council

Distr.: General
5 August 2022
English
Original: French

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Perishable Foodstuffs

Seventy-eighth session
Geneva, 25–28 October 2022
Item 5 (a) of the provisional agenda
Proposals of amendments to ATP:
Pending proposals

Measurement of the thickness of the walls of removable bodies of perishable foodstuff transport equipment

Transmitted by the Government of France

Summary

Executive summary: France is submitting a proposal to better control the dimensions of the insulating walls of the bodies of perishable food transport equipment during the type test.

Action to be taken: Measure the wall thickness of removable bodies, except for the tanks.

Related documents: None.

Introduction

1. A small variation in the dimensions of the body of equipment can have a significant impact on the thickness of the walls of the body, and thus on the insulation coefficient of the body.

2. The test stations accept a maximum variation of ±1 % in the dimensions of the body between the size given by the manufacturer and that measured by the laboratory. If these variations have little impact on the surface of the unit, a variation within the limit of 1% of the dimensions of the body (interior and exterior length, interior and exterior width, interior and exterior height) can arithmetically generate a variation of 10% of the thickness of the walls of the body and indirectly a variation of 10% of the K coefficient of the insulation of the body. This is greater than the measurement uncertainty of the K coefficient set at 5% by ATP.

3. Such a situation could discredit the value of the K coefficient measured by the ATP test stations on the prototypes that is used for the issuance of ATP certificates for equipment. These differences could distort competition between manufacturers.

4. In order to remedy this situation, it is proposed to add to the test report the measurement of the wall thickness of all types of prototypes with removable bodies presented at the official test stations, except for tanks.

I. Proposal

5. It is proposed to add to Model No. 1 A:

- In the paragraph Specifications of the body walls, the text:
  - "Thickness of the side walls of the body: ..... mm(7)"
  - "Thickness of the front face of the body: ..... mm(7)"
  - "Thickness of the rear face of the body (or if applicable, of at least one of the rear doors): ..... mm(7)"
  - "Thickness of the roof of the body: ..... mm(7)"
  - "Thickness of the floor of the body: ..... mm(7)"
- At the bottom of the page, the annotation:
  - (7) Measurement carried out by the official testing station

II. Justification

6. The purpose of this addition is to characterize the thickness of the materials constituting the walls of removable bodies of transport equipment subjected to the type test under ATP.

III. Impact

7. The measurement of the thickness of the body walls of the equipment during the type test reduces the risks of non-compliance with the requirements of ATP and of distortion of competition between manufacturers.

8. The financial impact is minimal. The cost of a wall thickness check is negligible compared to the overall cost of the type test.

IV. Feasibility

9. Measuring the thickness of a wall does not pose any particular concern. An appropriate method may be described in the ATP Handbook.