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Working Party on the Transport of Perishable Foodstuffs

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Geneva, 8-12 October 2018

Item 6 (a) of the provisional agenda

Proposals of amendments to ATP:

new proposals

Annex 1, Appendix 2, paragraph 1.2

Transmitted by the governments of Germany and United Kingdom

Introduction

1. At the seventy-first session of WP.11 the United Kingdom submitted a revised proposal to harmonise the external surface area measurements of panel vans and test reports (ECE/TRANS/WP.11/2015/2), this was adopted.

2. At last year's seventy-third session of WP.11 the proposal was published in the latest ATP agreement dated 6 January 2018. Subsequently at the latest CERTE meeting in Germany it was noted that the equations were different compared to the CEN standard, these corrections to the equations are to harmonise the ATP and CEN standards.

3. Germany and the United Kingdom propose to amend paragraph 1.2 as follows (deleted text ~~striketrough~~, new text **bold**):

“Method B. The manufacturer shall provide drawings and the test station appointed by the competent authority shall use the calculations according to the schemes⁵ and formulae below.

$$S_i = (((WI \times LI) + (WI \times LI) + (Wi \times Wi)) \times 2)$$

$$S_i = (((WI \times LI) + (HI \times LI) + (HI \times WI)) \times 2)$$

$$S_e = (((WE \times LE) + (WE \times LE) + (We \times We)) \times 2)$$

$$S_e = (((WE \times LE) + (HE \times LE) + (HE \times WE)) \times 2)$$

Where:

WI is the Y axis of the internal surface area

LI is the X axis of the internal surface area

~~Wi is the Z axis of the internal surface area~~

HI is the Z axis of the internal surface area

WE is the Y axis of the external surface area

LE is the X axis of the external surface area

~~We is the Z axis of the external surface area~~

HE is the Z axis of the external surface area

Using the most appropriate formula for the Y axis of the internal surface area

$$WI = (WIa \times a + WIb \times (b + c/2) + WIc \times c/2) / (a + b + c)$$

~~$$WI = (WIa \times a/2 + WIb \times (a/2 + b/2) + WIc \times (b/2)) / (a + b)$$~~

$$WI = (WIa \times a/2 + WIb \times (a/2 + b/2) + WIc \times (b/2)) / (a + b)$$

~~$$WI = ((WIb \times b) + (WIb \times c) - ((WIb - WIc) \times c) +$$~~

~~$$(2 \times ((WIb - WIa) \times a))) / (a + b + c)$$~~

$$WI = (WIa \times a + WIb \times b + (WIb + WIc)/2 \times c) / (a + b + c)$$

Where:

WIa is the internal width at the floor or between the wheel arches

WIb is the internal width at the height of the vertical edge from the floor or above the wheel arches.

WIc is the internal width along the roof

a is the height of the vertical edge from the floor

b is either the height between the bottom of the vertical edge and the roof or between the top of the wheel arch and the top of the vertical edge from the floor.

c is the height between the roof and point b

Along with the two formulae for the X and Z axes of the internal surface:

$$LI = ((LIa \times a) + (LIb + LIC) / 2 \times b + (LIC \times c)) / (a + b + c)$$

Where:

LIa is the internal length along the floor

LIb is the internal length above the wheel arches

LIC is the internal length along the roof

a is the height between LIa and LIb

b is the height between LIb and LIC

c is the height between LIC and the roof

~~$$Wi = (Wi \text{ back} + Wi \text{ front}) / 2$$~~

$$WI = (WI \text{ back} + WI \text{ front}) / 2$$

Where:

~~Wi back is the width at the bulkhead~~

WI back is the width at the bulkhead

~~Wi front is the width at the door end~~

WI front is the width at the door end

The external surface area is calculated using the formulae below

~~WE = WI + declared mean thickness~~

~~LE = LI + declared mean thickness~~

~~We = Wi + declared mean thickness~~

WE = WI + declared mean thickness x 2

LE = LI + declared mean thickness x 2

HE = HI + declared mean thickness x 2”.

Impact

4. There would be no financial impact to industry.
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