

DECLARATION OF PERFORMANCE

DoP No: W4FEF400 Insul - Tube® HPlus

1. **Unique identification code of the product-type:**
W4FEF004
 2. **Intended use or uses:**
Thermal Insulation for Building Equipment and Industrial Installations (ThIBell)
 3. **Manufacturer:**
Nmc Polska Sp. z o. o., 41-807 Zabrze, ul. Pyskowicka 15
 4. **System or systems of assessment and verification of constancy of performance:**
1+3
 5. **Harmonized standard :**
EN 14304:2009+A1:2013
- Notified bodies:**
NB 1454, NB, NB 1488, NB 0751
6. **Declared performance(s):**

Requirement / Characteristics from the mandate	Requirement clauses in the European Standard	Performances : levels or classes																												
Reaction to fire Euroclass characteristics	4.2.4 Reaction to fire	d ₀ = 10-23,5 mm D _i = 15-60 mm B _L -s3,d0		d ₀ = 24-54 mm D _i = 15-89 mm C _L -s3,d0																										
Acoustic absorption index	4.3.7 Structure-borne sound transmission	NPD																												
	4.3.8 Sound absorption	NPD																												
Thermal resistance	4.2.1 Thermal conductivity	d ₀ = 10-12 mm D _i = 15-60 mm 0,035 at 0°C 0,037 at 40°C 0,044 at 70°C	d ₀ = 13-23,5 mm D _i = 28-35 mm 0,035 at 0°C 0,038 at 40°C 0,044 at 70°C	d ₀ = 24-54 mm D _i = 15-89 mm 0,037 at 0°C 0,040 at 40°C 0,046 at 70°C																										
	4.2.2. Dimensions and tolerances	<table><tr><th colspan="2">Wall thickness [mm]:</th><th colspan="2">Inner dimension [mm]:</th><th>Lenght:</th></tr><tr><td>d₀ ≤ 8</td><td>± 1,0</td><td>D_i ≤ 100</td><td>+1 to +4</td><td>-1,5%</td></tr><tr><td>8 < d₀ ≤ 18</td><td>± 1,5</td><td>D_i > 100</td><td>+1 to +6</td><td></td></tr><tr><td>18 < d₀ ≤ 31</td><td>± 2,5</td><td></td><td></td><td></td></tr><tr><td>d₀ > 31</td><td>± 3,0</td><td></td><td></td><td></td></tr></table>				Wall thickness [mm]:		Inner dimension [mm]:		Lenght:	d ₀ ≤ 8	± 1,0	D _i ≤ 100	+1 to +4	-1,5%	8 < d ₀ ≤ 18	± 1,5	D _i > 100	+1 to +6		18 < d ₀ ≤ 31	± 2,5				d ₀ > 31	± 3,0			
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Water permeability	4.3.4. Water absorption	WS 01																												
Water vapour permeability	4.3.4 Water absorption	WS 01																												
	4.3.5 Water vapour diffusion resistance	NPD																												
Rate of release of corrosive substances	4.3.6. Trace quantities of water soluble ions & pH-value	NPD																												
Release of dangerous substances to the indoor environment	4.3.9. Release of dangerous substances	NPD																												

Requirement / Characteristics from the mandate	Requirement clauses in the European Standard	Performances : levels or classes
Continuous glowing combustion	4.3.10 Continuous glowing combustion	NPD
Durability of reaction to fire against ageing/degradation	4.2.5. Durability characteristics	The product meets the requirements for this property, the characteristics does not change with time.
Durability of thermal resistance against ageing/degradation	4.2.1. Thermal conductivity	The product meets the requirements for this property, the characteristics does not change with time.
	4.2.2. Dimensions and Tolerances	As above
	4.2.3. Dimensional stability	ST (+) 110°C
	4.2.5. Durability characteristics	The product meets the requirements for this property, the characteristics does not change with time.
	4.3.2. Maximum service temperature	ST (+) 110°C
	4.3.3. Minimum service temperature	ST (-) 0°C
Durability of reaction to fire against high temperature	4.2.5. Durability characteristics	The product meets the requirements for this property, the characteristics does not change with time.
Durability of thermal resistance against high temperature	4.2.5. Durability characteristics	The product meets the requirements for this property, the characteristics does not change with time.
	4.3.2. Maximum service temperature - dimensional stability	ST (+) 110°C

The performances of the product identified above is in conformity with the declared performance. In accordance with Regulation (EU) No 305/2011, this declaration of performance is issued under the sole responsibility of the manufacturer.

ADCA is a frequently used chemical blowing agent, which decomposes during heat induced foaming processes commonly used to produce certain foams. Residual ADCA levels in those foams are typically very low, but not nil. In our production processes we take special care to ensure residual ADCA levels as low as technically feasible. Our rubber foams, produced at NMC Polska Sp. z o.o (Zabrze, Poland), show levels which exceed the 0.1 wt% threshold value. In alignment with REACH these grades have been notified and can be consulted in the SCIP database.

MCCP is commonly used as a plasticizer & flame retardant in rubber products. Although we are looking for alternatives, we confirm that all our current rubber foams, produced at NMC Polska Sp. z o.o (Zabrze, Poland), show levels which exceed the 0.1 wt% threshold value. In alignment with REACH these grades have been notified and can be consulted in the SCIP database.

If you are using or intend to use one or more of these grades, you may address all your ADCA & MCCP related questions to your commercial contact.

Signed for and on behalf of the manufacturer by:

Name and function

Deputy Certification and Lab Coordinator



Izabela Blesińska

Zabrze, 07-10-2022

***this Declaration of Performance replaced DoP No. W4FEF400 of 29.01.2021**