

Declaration of Performance

According to Annex III of the Regulation (EU) No. 305/2011

HENSOTHERM® 410 KS

LE_410KS_GB_V05_01

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| 1. Product Type
Unique identification code of the product type | HENSOTHERM® 410 KS |
| 2. Type
Batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4) | See label on the bucket |
| 3. Indented Use
or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer | Fire protection of structural steel H- or I beams and columns and rectangular/square hollow columns and circular hollow columns for up to a fire resistance classification of R90, and for design temperatures in the range of 350°C to 750°C. |
| 4. Name, registered Trade Name
or registered trade mark and contact address of the manufacturer as required under Article 11 (5) | Rudolf Hensel GmbH
Lack- und Farbenfabrik
Lauenburger Landstraße 11
21039 Börnsen
Germany |
| 5. Contact Address
Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (2) | Not relevant (see 4) |
| 6. AVCP
System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V | System 1 |
| 7. Notified Body (hEN)
In case of the Declaration of Performance (DoP) concerning a production product covered by a harmonised standard | Not relevant |
| 8. Notified Body (ETA)
In case of the Declaration of Performance concerning a construction product for which a European Technical Assessment (ETA) has been issued | European Technical Assessment ETA 20/1229 issued by Element Materials Technology Rotterdam B.V. EAD 350402-00-1106 was used as European Assessment Document (EAD). The notified body 2812 performed third party tasks as set out in Annex V under System 1 and issued Certificate of Conformity 2812-CPR-GA5008. |

9. Declared Performance

Assessment method	Essential characteristic	Product performance																														
BASIC WORKS REQUIREMENT 2: SAFETY IN CASE OF FIRE																																
EN 13501-1	Reaction to fire	Class E																														
EN 13501-2	Fire resistance	(R15 to R90) – IncSlow (I/H Beams and Columns) and (R15 to R90) – IncSlow (Hollow Columns) (see Annex A ETA 20/1229)																														
BASIC WORKS REQUIREMENT 3: HYGIENE, HEALTH AND THE ENVIRONMENT																																
Manufacturer’s declaration and EN 16516	Content, emission and or release of dangerous substances	The product does not contain any hazardous substances listed in Annex XIV or XVII of the REACH Regulation. Please refer to the product safety data sheet for classification in accordance with Regulation (EC) No 1272/2008 (CLP) and information on the candidate list of substances of very high concern. Use categories: IA1 and S/W2 Results for reactive coating emission tests are below:																														
<table><tr><td></td><td colspan="2">3 Days</td><td colspan="2">28 Days</td></tr><tr><td></td><td>Restriction</td><td>HENSOTHERM® 410 KS</td><td>Restriction</td><td>HENSOTHERM® 410 KS</td></tr><tr><td>R-Value</td><td>N/A</td><td>-</td><td>≤ 1</td><td>≤ 1</td></tr><tr><td>TVOC</td><td>≤ 10000 µg/m³</td><td>≤ 10000 µg/m³</td><td>≤ 1000 µg/m³</td><td>≤ 1000 µg/m³</td></tr><tr><td>TSVOC</td><td>N/A</td><td>-</td><td>≤ 100 µg/m³</td><td>≤ 100 µg/m³</td></tr><tr><td>Non LCI</td><td>N/A</td><td>-</td><td>≤ 100 µg/m³</td><td>≤ 100 µg/m³</td></tr></table>				3 Days		28 Days			Restriction	HENSOTHERM® 410 KS	Restriction	HENSOTHERM® 410 KS	R-Value	N/A	-	≤ 1	≤ 1	TVOC	≤ 10000 µg/m³	≤ 10000 µg/m³	≤ 1000 µg/m³	≤ 1000 µg/m³	TSVOC	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³	Non LCI	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³
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TSVOC	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³																												
Non LCI	N/A	-	≤ 100 µg/m³	≤ 100 µg/m³																												
BASIC WORKS REQUIREMENT 4: SAFETY AND ACCESSIBILITY IN USE																																
EAD 350402-00-1106 Clause 2.2.4 and Clause 2.2.5	Primer compatibility	Steel substrates Alkyd resin, solvent based Two component epoxy resin, solvent based Water-based acrylic Galvanized steel substrates Two component epoxy resin, solvent based Water based acrylic																														
	Top coat compatibility	HENSOTOP 84, HENSOTOP 84 AQ, HENSOTOP SB, HENSOTOP WB, HENSOTOP 2K PU, HENSOTOP WB Green, Teknocryl 100																														
	Durability	Type Y durability Type Z ₁ durability Type Z ₂ durability																														
	Working life	25 years for type Z ₂ (indoor use)																														
EAD 350402-00-1106 Clause 2.3.5	Identification	Thermoanalytical analyses (TG) and Infrared spectroscopy analyses (IR)																														

10. The performance of the product identified in point 1 and 2 is in conformity with the declared performance in point 9. This Declaration of Performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Note:

Besides the Declaration of Performance assessments, technical data sheets and material safety data sheets for our HENSOTHERM® and HENSOMASTIK® products are integral parts of the Declaration of Performance and are available as pdf download on www.rudolf-hensel.de. For further questions concerning our products, our technical team is available by phone +49 40 721062-48.

Signed for the manufacturer and on behalf of the manufacturer:

Börnsen, 2023-11-09

Volker Thewes
Managing Director

ppa. Anja Peter (Dipl.-Ing. FH)
Technical Director

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