

DECLARATION OF PERFORMANCE	DOP-No.: Styrodur-4000CS-160-010-06-2016-02-01
Unique identification code of the product-type:	Styrodur 4000 CS - 160
Intended use	Thermal Insulation for Buildings
harmonized technical specification:	EN 13164:2012+A1:2015 - Thermal insulation for building (ThIB)
Name and contact address of the manufacturer	BASF Schwarzheide GmbH, Schipkauer Str. 1, 01986 Schwarzheide, Germany
System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:	AVCP - System 3
Name and identification number of notified body	FIW (Notified testing laboratory No. 751)

Essential characteristic - (EN13164-ZA1)		Symbol	Performance
declared thermal resistance	thickness	d_N [mm]	60
	declared thermal conductivity λ_D	λ_D [W/(mK)]	0.035
	declared thermal resistance	R_D [m ² K/W]	1.70
Dimensional tolerances		T	1
Compressive strength		CS(10\Y)	300
Tensile strength perpendicular to faces	Tensile strength perpendicular to faces	TR	NPD
Reaction to fire		Class	E
Continuous glowing combustion			NPD
water permeability	long term water absorption by total immersion	WL(T)	0.7
	long term water absorption by diffusion	WD(V)	3
Water vapor transmission	water vapor diffusion resistance factor	MU	100
Durability of compressive strength against ageing/degradation	compressive creep	CC(2/1,5/50)	180
durability of reaction to fire against heat, weathering, ageing/degradation	(a), (b)		
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity		see above R_D and λ_D
	freeze-thaw resistance after long term water diffusion test	FTCD	1
	freeze/thaw resistance after long term water absorption by total immersion	FTCI	NPD
	dimensional stability under specified temperature and humidity conditions	DS	(70,90)
	Deformation under specified compressive load and temperature conditions	DLT	(2)5
dangerous substances	Release of dangerous substances to the indoor environment		NPD

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance in accordance with regulation (EU) No. 305/2011 is issued under the sole responsibility of the manufacturer identified in point 4.

(a) No change in reaction to fire properties for XPS products

(b) The reaction to fire performance of XPS does not change with time.

11. Signed for and on behalf of the manufacturer by

Ludwigshafen, 01.02.2016

Pfa. Kuhn
Kuhn

L. A. Merkel
Merkel