

Sikasil®-670 Fire

DECLARATION OF PERFORMANCE

No. 52924552

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	52924552
2	INTENDED USE/S	ETA 14/0474/ EAD 350141-00-1106:2017 Fire stopping and sealing products, linear joint and gap seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 1
6b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350141-00-1106 FIRE STOPPING AND FIRE SEALING PRODUCTS, LINEAR JOINT AND GAP SEALS - September 2017
	European Technical Assessment:	ETA 14/0474 of 11/07/2019
	Technical Assessment Body:	Warrington Fire Testing and Certification Limited
	Notified body/ies:	1121, 2812

7 DECLARED PERFORMANCE/S

	Product Type: Sikasil®-670 Fire	Intended use: Linear Joint Seal					
Basic requirement for construction Basic Requirement work		Performance					
	BWR 1 Mechanical resistance and stability						
None Not relevant							
	BWR 2 Safety in case of fire						
EN 13501-1	Reaction to fire	Sikasil®-670 Fire - E					
EN 13501-2	Resistance to fire	Annex A					
	BWR 3 Hygiene, Health and the Environmen	t					
EN 1026:2000	Air permeability	No performance determined					
EAD 350141-00-1106	Water permeability	No performance determined					
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer					
	BWR 4 Safety in use						
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined					
EOTA TR 001:2003	Resistance to impact/movement	No performance determined					
EOTA TR 001:2003	Adhesion	No performance determined					
	BWR 5 Protection against noise						
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw (C;C _{tr})= 38(-2;-9)					
	BWR 6 Energy, Economy and Heat Retention	n					
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined					
EN ISO 12572							
EN12086	Water vapour permeability	No performance determined					
	General aspects relating to fitness for use						
EOTA TR 024:2009	Durability and serviceability	х					
	BWR 7 Sustainable use of natural resources						
		No performance determined					

Declaration of Performance



Annex A Resistance to Fire Classification of Sikacryl®-670 Fire

Orientation

The field of application regarding the orientation of the linear joint is given in Table 1.

Table 1

Tested orientation	Application
A	A, D, E ^a
В	В
С	C, D ^b

^a Orientation E will only be covered by test orientation A if shear movement was chosen and one face of the joint was fixed and the other was moved.

Key

A linear joint in a horizontal test construction

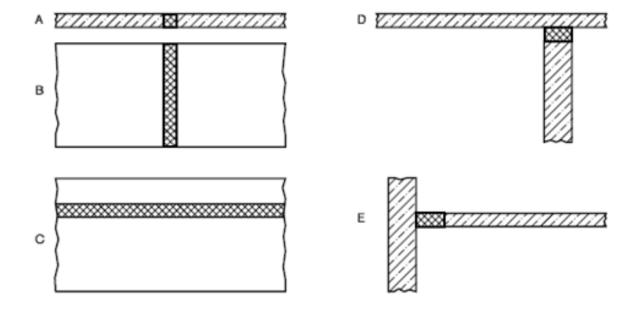
B vertical linear joint in a vertical test construction

C horizontal linear joint in a vertical test construction

D horizontal wall joint abutting a floor, ceiling or roof

E horizontal floor joint abutting a wall

Table 1 only applies when both the supporting construction and the location of the seal within the linear joint remain unchanged.



^b Orientation D will only be covered by test orientation C if shear movement was chosen and one face of the joint was fixed and the other face was moved.

A.1 Rigid wall constructions according to 2.1 with wall thickness of minimum 150 mm

A.1.1 Linear joint or gap seal

A.1.1.1 Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.)

Sikasil®-670 Fire Linear J	Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification			
d. d. Concrete				EI240 – V – 25 – F – W 12-50			
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	EI240 – V – X – F – W 12-50			

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
d Concrete	15	PE Backing Rod	AAC-AAC	E180 EI45 – V – 25 – F – W 0-30		
Fire side Sealant Backing rod	O.F. worldth			E240 El130 – V – 25 – F – W 12-50		
	0.5 x width			E240 EI60 - V - X - F - W 12-50		

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
	15	PE Backing Rod	AAC-AAC	E60 EI45 – V – 25 – F – W 10-30		
Concrete	0.5 x width			E60 E145 – V – 25 – F – W 30-50		
Fire side Sealant	15			E240 EI60 – V – X – F – W 10-30		
	0.5 x width			E180 E145- V - X - F - W 30-50		

Declaration of Performance

Sikasil®-670 Fire Linear J	Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification			
Concrete				E240 EI60 – V – X – F – W 12-30			
Fire side Backing rod Steel	0.5 x width	PE Backing Rod	AAC-Steel	E240 E190 – V – X – F – W 30-50			

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Fire side Backing rod Steel Sealant	0.5 x width	PE Backing Rod	AAC-Steel	E240 E115 – V – X – F – W 12-50		

Sikasil®-670 Fire Linear J	Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -							
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification				
Fire side TITILIZITICAN Backing rod Wood	0.5 x width	PE Backing Rod	AAC-Softwood	EI120 – V – X – F – W 12-50				

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Fire side UTIW///III/CGC MC/II Backing rod Wood	0.5 x width	PE Backing Rod	AAC-Softwood	EI90 – V – X – F – W 12-50		

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -							
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification			
Concrete				EI180 – V – X – F – W 12-30			
Fire side ### Sealant ####################################	0.5 x width	PE Backing Rod	AAC-Hardwood	E1240 – V – X – F – W 30-50			

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Concrete				E240 El180 – T – 25 – F – W 12-50		
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	EI240 – T – X – F – W 12-50		

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
d				E120 EI60 – T – 25 – F – W 12-50	
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	E240 EI60 – T – X – F – W 12-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
	15	PE Backing Rod	AAC-AAC	E60 EI45 – T – 25 – F – W 10-30	
— Concrete Backing rod	0.5 x width			E60 E145 – T – 25 – F – W 30-50	
Fire side Sealant	15			E180 EI60 – T – X – F – W 10-30	
	0.5 x width			E90 EI60 -T - X - F - W 30-50	

A2.1 Linear joint or gap seal

A2.2.1 Sikasil®- 670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.)

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
d d Concrete				E240 El180 – H – 25 – F – W 12-50	
Fire side day	0.8 x width	PE Backing Rod	AAC-AAC	EI240 – H – X – F – W 12-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Concrete Sealant Backing rod	0.8 x width	PE Backing Rod	AAC-AAC	E240 EI60 – H – 25 – F – W 12-50	
	0.5			E240 EI120 – H – 25 – F – W 12-30	
	0.5 x width			E240 E160 - H - X - F - W 30-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Concrete	0.8 x width	PE Backing Rod AAC-AAC	E90 E160 – H – 25 – F – W 12-50		
Fire side 4 Sealant	0.8 x width		AACAAC	E60 EI60 – H – X – F – W 30-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Fire side Sealant Backing rod Steel	0.8 x width	PE Backing Rod	AAC-Steel	E240 EI60 – H – X – F – W 12-50		

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Fire side Backing rod	0.8 x width	PE Backing Rod	AAC-Steel	E90 EI60 – H – X – F – W 12-50		

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -						
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification		
Fire side The side of the sid	0.8 x width	PE Backing Rod	AAC-Steel	E90 EI60 – H – X – F – W 12-50		

Declaration of Performance

52924552 2019.09 , ver. 2 1213

8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR - SPECIFIC TECHNICAL DOCUMENTATION

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

Signed for and on behalf of the manufacturer by:

Name : Anders Beier

Function: General Manager At Farum on 08 July 2020 Name: Kristian Larsen

Function: Head Sealing and Bonding

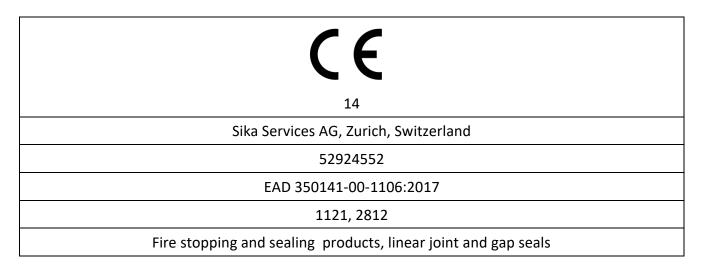
At Farum on 08 July 2020

End of information as required by Regulation (EU) No 305/2011

RELATED DECLARATION OF PERFORMANCE

Product Name	Harmonised technical specification	DoP Number
Sikasil®-670 Fire	EN 15651-1:2012	43303384
Sikasil®-670 Fire	EN 15651-2:2012	92248893
Sikasil®-670 Fire	EN 15651-4:2012	90043108

FULL CE MARKING



	Product Type: Sikasil®-670 Fire	Intended use: Linear Joint Seal
Basic requirement for construction work	Basic Requirement	Performance
	BWR 1 Mechanical resistance and stability	
	None	Not relevant
	BWR 2 Safety in case of fire	
EN 13501-1	Reaction to fire	Sikasil®-670 Fire - E
EN 13501-2	Resistance to fire	Annex A
	BWR 3 Hygiene, Health and the Environmen	t
EN 1026:2000	Air permeability	No performance determined
EAD 350141-00-1106	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
	BWR 4 Safety in use	
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
	BWR 5 Protection against noise	
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw (C;C _{tr})= 38(-2;-9)
	BWR 6 Energy, Economy and Heat Retention	1
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN12086	Water vapour permeability	No performance determined
	General aspects relating to fitness for use	
EOTA TR 024:2009	Durability and serviceability	х
	BWR 7 Sustainable use of natural resources	
		No performance determined

Declaration of Performance



Annex A

Resistance to Fire Classification of Sikacryl®-670 Fire

Orientation

The field of application regarding the orientation of the linear joint is given in Table 1.

Table 1

Tested orientation	Application
A	A, D, E ^a
В	В
С	C, D ^b

^a Orientation E will only be covered by test orientation A if shear movement was chosen and one face of the joint was fixed and the other was moved.

Key

A linear joint in a horizontal test construction

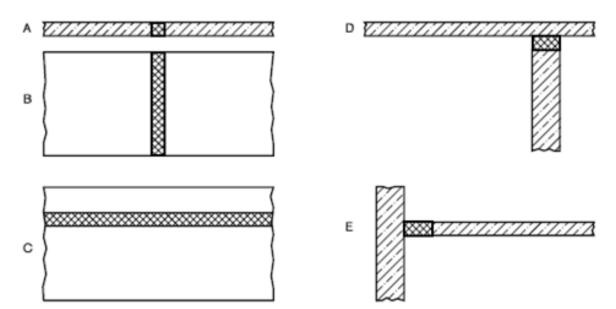
B vertical linear joint in a vertical test construction

C horizontal linear joint in a vertical test construction

D horizontal wall joint abutting a floor, ceiling or roof

E horizontal floor joint abutting a wall

Table 1 only applies when both the supporting construction and the location of the seal within the linear joint remain unchanged.



^b Orientation D will only be covered by test orientation C if shear movement was chosen and one face of the joint was fixed and the other face was moved.

A.1 Rigid wall constructions according to 2.1 with wall thickness of minimum 150 mm

A.1.1 Linear joint or gap seal

A.1.1.1 Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.)

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
d & Concrete				EI240 – V – 25 – F – W 12-50	
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	EI240 – V – X – F – W 12-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Fire side Backing rod	15	PE Backing Rod	AAC-AAC	E180 EI45 – V – 25 – F – W 0-30
	O. F. www.idhly			E240 EI130 – V – 25 – F – W 12-50
	0.5 x width			E240 EI60 – V – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
	15	PE Backing Rod	AAC-AAC	E60 EI45 – V – 25 – F – W 10-30
Concrete	0.5 x width			E60 E145 – V – 25 – F – W 30-50
Fire side Sealant	15			E240 EI60 – V – X – F – W 10-30
	0.5 x width			E180 EI45- V - X - F - W 30-50

Declaration of Performance

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Concrete				E240 EI60 – V – X – F – W 12-30	
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-Steel	E240 E190 – V – X – F – W 30-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Fire side Backing rod Seel Sealant	0.5 x width	PE Backing Rod	AAC-Steel	E240 EI15 – V – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Fire side TITILIZITICAN Backing rod Wood	0.5 x width	PE Backing Rod	AAC-Softwood	EI120 – V – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Fire side Titll T	0.5 x width	PE Backing Rod	AAC-Softwood	EI90 – V – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Concrete				EI180 – V – X – F – W 12-30	
Fire side ### Sealant #### Backing rod #### Wood	0.5 x width	PE Backing Rod	AAC-Hardwood	EI240 – V – X – F – W 30-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Concrete				E240 El180 – T – 25 – F – W 12-50
Fire side Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	EI240 – T – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
d				E120 EI60 – T – 25 – F – W 12-50
Fire side a d a d a Backing rod	0.5 x width	PE Backing Rod	AAC-AAC	E240 E160 – T – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Walls 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
	15	PE Backing Rod	AAC-AAC	E60 E145 – T – 25 – F – W 10-30
Concrete	0.5 x width			E60 E145 – T – 25 – F – W 30-50
Fire side Sealant	15			E180 EI60 – T – X – F – W 10-30
	0.5 x width			E90 E160 -T - X - F - W 30-50

A2.1 Linear joint or gap seal

A2.2.1 Sikasil®- 670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.)

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
d				E240 EI180 – H – 25 – F – W 12-50
Fire side Backing rod	0.8 x width	PE Backing Rod	AAC-AAC	EI240 – H – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Concrete Sealant Backing rod	0.8 x width	PE Backing Rod	AAC-AAC	E240 EI60 – H – 25 – F – W 12-50
	0.5 x width			E240 EI120 – H – 25 – F – W 12-30
				E240 EI60 - H - X - F - W 30-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Concrete Backing rod Fire side Sealant	0.8 x width	- PE Backing Rod	AAC-AAC	E90 E160 – H – 25 – F – W 12-50	
	0.8 x width			E60 E160 – H – X – F – W 30-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Fire side Backing rod	0.8 x width	PE Backing Rod	AAC-Steel	E240 EI60 – H – X – F – W 12-50	

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -				
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification
Fire side Backing rod	0.8 x width	PE Backing Rod	AAC-Steel	E90 EI60 – H – X – F – W 12-50

Sikasil®-670 Fire Linear Joint Seals in Rigid Floors 150 mm thick (min.) -					
Seal Configuration	Sikasil®-670 Fire Depth (mm)	Backing Material	Substrates	Classification	
Fire side The side of the sid	0.8 x width	PE Backing Rod	AAC-Steel	E90 E160 – H – X – F – W 12-50	

dop.sika.com

Declaration of Performance



CE MARKING TO BE PLACED ON THE LABEL

(6

14

Sika Services AG, Zurich, Switzerland

52924552

EAD 350141-00-1106:2017

1121, 2812

Fire stopping and sealing products, linear joint and gap seals

For details see accompanying documents

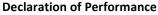
dop.sika.com

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTE

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or endusers of the product have been given in good faith based on our own experiences and based of approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.



Sika Danmark A/S Hirsemarken 5

3520 Farum

www.sika.dk

Declaration of Performance

