Sika AnchorFix®-2+ Arctic

DECLARATION OF PERFORMANCE
No. 53612429

UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	53612429
INTENDED USE/S	Post installed rebar connections with Sika AnchorFix®-2+, Arctic, Tropical injection mortar
MANUFACTURER:	Sika Services AG Tüffenwies 16 8064 Zürich
SYSTEM/S OF AVCP:	1
EUROPEAN ASSESSMENT DOCUMENT:	EAD 330087-01-0601:2021
European Technical Assessment:	ETA 13/0779 of 16/12/2025
Technical Assessment Body:	TECHNICKY A ZKUSEBNI USTAV STAVEBNI PRAHA s.p.
Notified body/ies:	1020

Declaration of Performance
Sika AnchorFix®-2+ Arctic
 53612429
2026.02 , ver.1
1138

1/11

6   DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Bond strength of post-installed rebar	See Annex C 1, C 2	System 1	EAD 330087-01-0601:2021
Reduction factor	See Annex C 1, C 2	System 1	
Amplification factor for minimum anchorage length	See Annex C 1, C 2	System 1	
Reaction to fire	Class (A1)	System 1	
Resistance to fire	See Annex C 3	System 1	

Declaration of Performance
Sika AnchorFix®-2+ Arctic
 53612429
2026.02 , ver. 1
 1138

2/11

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Design bond strength of post-installed rebar $f_{bd,PIR}$ and $f_{bd,PIR,100y}$ for working life 50 and 100 years

$f_{bd,PIR} = k_b \cdot f_{bd}$

k_b = reduction factor

f_{bd} = design bond strength of cast-in rebar according to EN 1992-1-1

Table C1: Values of the design bond strength of post installed rebar $f_{bd,PIR} = f_{bd,PIR,100y}$ with reduction factor $k_b = k_{b,100y}$ for hammer drilling or dustless drilling methods for good bond conditions

Rebar Ø 8 to 16									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0	3,4	3,7	4,0	4,3
Rebar Ø 20									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	0,92	0,86
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0	3,4	3,7		
Rebar Ø 25									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	0,90	0,82	0,76	0,71
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0				
Rebar Ø 28									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	0,88	0,8	0,73	0,67	0,63
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7					
Rebar Ø 32									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	0,86	0,76	0,69	0,63	0,58	0,54
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3						

Tabulated values are valid for good bond conditions according to EN 1992-1-1.
For all other bond conditions multiply the values by 0,7.

Table C2: Amplification factor for minimum anchorage length

Rebar	Amplification factor	Concrete class								
		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø 8		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 10		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 12		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 14		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 16	$\alpha_{lb} = \alpha_{lb,100y}$	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 20		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 25		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 28		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,5
Ø 32		1,0	1,0	1,0	1,0	1,0	1,5	1,5	1,5	1,5

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	
Performances Design values of the ultimate bond strength for hammer or dustless drilling	**Annex C 1**

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Design bond strength of post-installed rebar $f_{bd,PIR}$ and $f_{bd,PIR,100y}$ for working life 50 and 100 years

$f_{bd,PIR} = k_b \cdot f_{bd}$
k_b = reduction factor
f_{bd} = design bond strength of cast-in rebar according to EN 1992-1-1

Table C3: Values of the design bond strength of post installed rebar $f_{bd,PIR} = f_{bd,PIR,100y}$ with reduction factor $k_b = k_{b,100y}$ for diamond core drilling methods for good bond conditions

		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Rebar Ø 8										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	1,00	0,90	0,82	0,76	0,71
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7	3,0				
Rebar Ø 10										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,82	0,76	0,71
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7			3,0		
Rebar Ø 12										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					
Rebar Ø 14										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					
Rebar Ø 16										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					
Rebar Ø 20										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1	0,86	0,76	0,69	0,63	0,58	0,54
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3						
Rebar Ø 25										
Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	0,83	0,71	0,74	0,66	0,59	0,54	0,50	0,47
$f_{bd,PIR}$	[N/mm²]	1,6			2,0					

Tabulated values are valid for good bond conditions according to EN 1992-1-1.
For all other bond conditions multiply the values by 0,7.

Table C4: Amplification factor for minimum anchorage length

Rebar	Amplification factor	Concrete class								
		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø 8 to 25	$\alpha_{lb} = \alpha_{lb,100y}$	1,0	1,0	1,0	1,0	1,1	1,0	1,0	1,0	1,0

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	**Annex C 2**
Performances Design values of the ultimate bond strength for diamond core drilling	

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Design values of the bond strength $f_{bd,fi}$ and $f_{bd,fi,100y}$ under fire exposure for working life 50 and 100 years for hammer or dustless drilling

The design value of the bond strength $f_{bd,fi} = f_{bd,fi,100y}$ under fire exposure has to be calculated according the following equation:

$$f_{bd,fi}(\theta) = f_{bd,fi,100y}(\theta) = k_{b,fi}(\theta) \cdot f_{bd,PIR} \cdot \frac{\gamma_c}{\gamma_{M,fi}}$$

where:
$\theta \leq 251,6°C$ $k_{b,fi}(\theta) = 75000 \cdot \theta^{-2,117} / (f_{bd,PIR} \cdot 4,3) \leq 1$
$\theta > 251,6°C$ $k_{b,fi}(\theta) = 0$

with:
$k_{b,fi}(\theta)$ reduction factor in case of fire
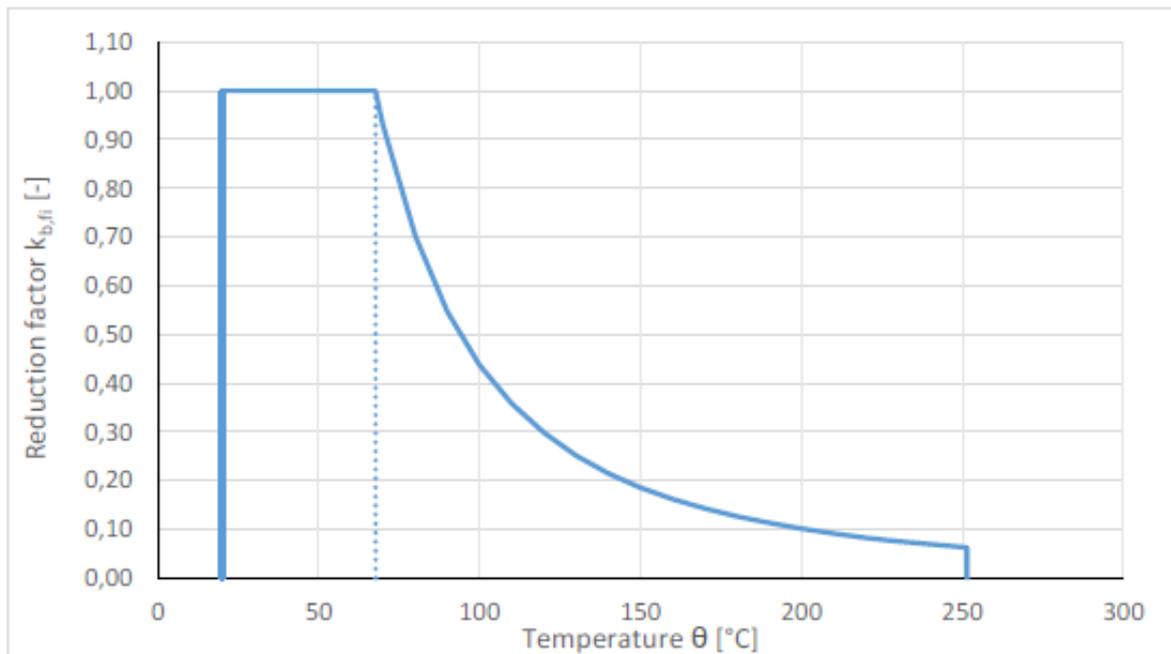(θ) temperature in °C in the mortar layer
$f_{bd,PIR}$ design value of the bond strength in N/mm² according to Table C1 considering the concrete class, the rebar diameter, the drilling method and the bond conditions according to EN 1992-1-1:2004+AC:2010
γ_c partial safety factor according to EN 1992-1-1:2004+AC:2010
$\gamma_{M,fi}$ partial safety factor according to EN 1992-1-2:2004+AC:2008+A1:2019

The anchorage length shall be determined in accordance with EN 1992-1-1:2004+AC:2010 equation (8.3) using the bond strength $f_{bd,fi}(\theta)$.

Figure C1: Example of the graph of reduction factor $k_{b,fi}(\theta)$ for concrete strength class C20/25 for good bond conditions

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	
Performances Design values of the bond strength under fire exposure for hammer or dustless drilling	**Annex C 3**

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7 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 : Tomasz Gutowski
Function: Corporate Product
Certification Manager
At Warsaw on 11 February 2026

Name : Barbara Karpała
Function: Data Processing Specialist
Corporate Technical Department
At Warsaw on 11 February 2026

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End of information as required by Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC Text with EEA relevance

Declaration of Performance
Sika AnchorFix®-2+ Arctic
 53612429
2026.02 , ver. 1
 1138

6/11

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25

Sika Services AG, Zurich, Switzerland	
DoP No. 53612429	
Notified Body 1020	

Bond strength of post-installed rebar	See Annex C 1, C 2
Reduction factor	See Annex C 1, C 2
Amplification factor for minimum anchorage length	See Annex C 1, C 2
Reaction to fire	Class (A1)
Resistance to fire	See Annex C 3

Declaration of Performance
Sika AnchorFix®-2+ Arctic
53612429
2026.02 , ver. 1
1138

7/11

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Design bond strength of post-installed rebar $f_{bd,PIR}$ and $f_{bd,PIR,100y}$ for working life 50 and 100 years

$f_{bd,PIR} = k_b \cdot f_{bd}$
k_b = reduction factor
f_{bd} = design bond strength of cast-in rebar according to EN 1992-1-1

Table C1: Values of the design bond strength of post installed rebar $f_{bd,PIR} = f_{bd,PIR,100y}$ with reduction factor $k_b = k_{b,100y}$ for hammer drilling or dustless drilling methods for good bond conditions

Rebar Ø 8 to 16									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0	3,4	3,7	4,0	4,3
Rebar Ø 20									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	0,92	0,86
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0	3,4	3,7		
Rebar Ø 25									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	1,0	0,90	0,82	0,76	0,71
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7	3,0				
Rebar Ø 28									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	1,0	0,88	0,8	0,73	0,67	0,63
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3	2,7					
Rebar Ø 32									
Concrete class	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b [-]	1,0	1,0	1,0	0,86	0,76	0,69	0,63	0,58	0,54
$f_{bd,PIR}$ [N/mm²]	1,6	2,0	2,3						

Tabulated values are valid for good bond conditions according to EN 1992-1-1.
For all other bond conditions multiply the values by 0,7.

Table C2: Amplification factor for minimum anchorage length

Rebar	Amplification factor	Concrete class								
		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø 8		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 10		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 12		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 14		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 16	$\alpha_{lb} = \alpha_{lb,100y}$	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 20		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 25		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ø 28		1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,5
Ø 32		1,0	1,0	1,0	1,0	1,0	1,5	1,5	1,5	1,5

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	
Performances Design values of the ultimate bond strength for hammer or dustless drilling	Annex C 1

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Design bond strength of post-installed rebar $f_{bd,PIR}$ and $f_{bd,PIR,100y}$ for working life 50 and 100 years

$f_{bd,PIR} = k_b \cdot f_{bd}$
k_b = reduction factor
f_{bd} = design bond strength of cast-in rebar according to EN 1992-1-1

Table C3: Values of the design bond strength of post installed rebar $f_{bd,PIR} = f_{bd,PIR,100y}$ with reduction factor $k_b = k_{b,100y}$ for diamond core drilling methods for good bond conditions

Rebar Ø 8

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	1,00	0,90	0,82	0,76	0,71
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7	3,0				

Rebar Ø 10

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,82	0,76	0,71
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7			3,0		

Rebar Ø 12

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					

Rebar Ø 14

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					

Rebar Ø 16

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1,0	1,0	0,89	0,80	0,73	0,67	0,63
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3	2,7					

Rebar Ø 20

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	1,0	1	0,86	0,76	0,69	0,63	0,58	0,54
$f_{bd,PIR}$	[N/mm²]	1,6	2,0	2,3						

Rebar Ø 25

Concrete class		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
k_b	[-]	1,0	0,83	0,71	0,74	0,66	0,59	0,54	0,50	0,47
$f_{bd,PIR}$	[N/mm²]	1,6			2,0					

Tabulated values are valid for good bond conditions according to EN 1992-1-1.
For all other bond conditions multiply the values by 0,7.

Table C4: Amplification factor for minimum anchorage length

Rebar	Amplification factor	Concrete class								
		C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø 8 to 25	$\alpha_{lb} = \alpha_{lb,100y}$	1,0	1,0	1,0	1,0	1,1	1,0	1,0	1,0	1,0

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	Annex C 2
Performances Design values of the ultimate bond strength for diamond core drilling	

Declaration of Performance
Sika AnchorFix®-2+ Arctic
53612429
2026.02 , ver. 1
1138

9/11

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Design values of the bond strength $f_{bd,fi}$ and $f_{bd,fi,100y}$ under fire exposure for working life 50 and 100 years for hammer or dustless drilling

The design value of the bond strength $f_{bd,fi} = f_{bd,fi,100y}$ under fire exposure has to be calculated according the following equation:

$$f_{bd,fi}(\theta) = f_{bd,fi,100y}(\theta) = k_{b,fi}(\theta) \cdot f_{bd,PIR} \cdot \frac{\gamma_c}{\gamma_{M,fi}}$$

where: $\theta \leq 251{,}6°C$ $k_{b,fi}(\theta) = 75000 \cdot \theta^{-2,117} / (f_{bd,PIR} \cdot 4,3) \leq 1$
$\theta > 251{,}6°C$ $k_{b,fi}(\theta) = 0$

with:
$k_{b,fi}(\theta)$ reduction factor in case of fire
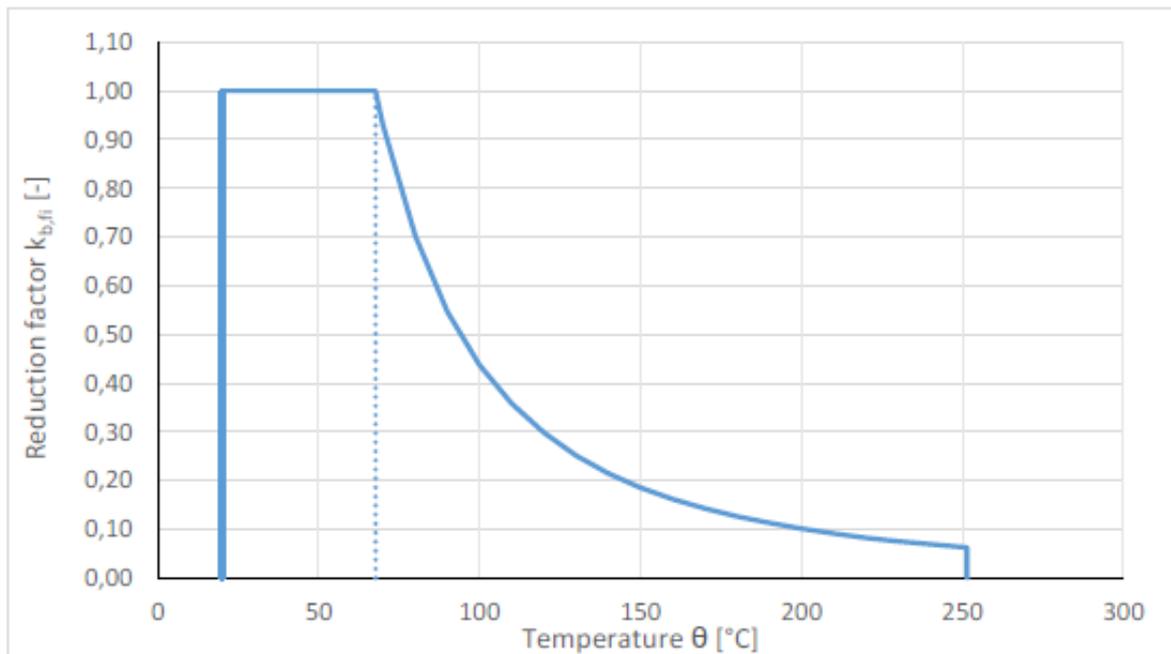(θ) temperature in °C in the mortar layer
$f_{bd,PIR}$ design value of the bond strength in N/mm^2 according to Table C1 considering the concrete class, the rebar diameter, the drilling method and the bond conditions according to EN 1992-1-1:2004+AC:2010
γ_c partial safety factor according to EN 1992-1-1:2004+AC:2010
$\gamma_{M,fi}$ partial safety factor according to EN 1992-1-2:2004+AC:2008+A1:2019

The anchorage length shall be determined in accordance with EN 1992-1-1:2004+AC:2010 equation (8.3) using the bond strength $f_{bd,fi}(\theta)$.

Figure C1: Example of the graph of reduction factor $k_{b,fi}(\theta)$ for concrete strength class C20/25 for good bond conditions

Sika AnchorFix®-2+, Sika AnchorFix®-2+ Arctic, Sika AnchorFix®-2+ Tropical for rebar connection	
Performances Design values of the bond strength under fire exposure for hammer or dustless drilling	**Annex C 3**

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EAD 330087-01-0601:2021
Post installed rebar connections with Sika AnchorFix®-2+, Arctic, Tropical injection mortar

http://dop.sika.com

CE MARKING TO BE PLACED ON THE LABEL

$C\epsilon$ 25
Sika Services AG, Zurich, Switzerland
DoP No. 53612429
Notified Body 1020
For details see ETA 13/0779 of 16/12/2025 and accompanying documents
EAD 330087-01-0601:2021
Post installed rebar connections with Sika AnchorFix®-2+, Arctic, Tropical injection mortar

http://dop.sika.com

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

Any information provided in this Declaration of Performance ("DoP"), including any descriptions and recommendations relating to the application and end-use of any Sika products ("Products"), are given in good faith based on Sika's current knowledge and experience of the Products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. Please note that the materials, substrates and actual site conditions may vary considerably, and therefore Sika makes no warranty for merchantability or fitness for a particular purpose, and accepts no liability for the application and use of the Products, for any recommendations, or for any advice offered. Prior to using, the Product must be tested for its suitability for the intended application and purpose, and the most recent version of the Product Data Sheet must be consulted. Sika reserves the right to change the properties of its Products any time without prior notice. Any orders for Products or services provided by Sika are subject to Sika's current terms and conditions of sale.

Declaration of Performance
Sika AnchorFix®-2+ Arctic
 53612429
2026.02 , ver. 1
 1138

11/11

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