HC-SF-R Facade Clamp

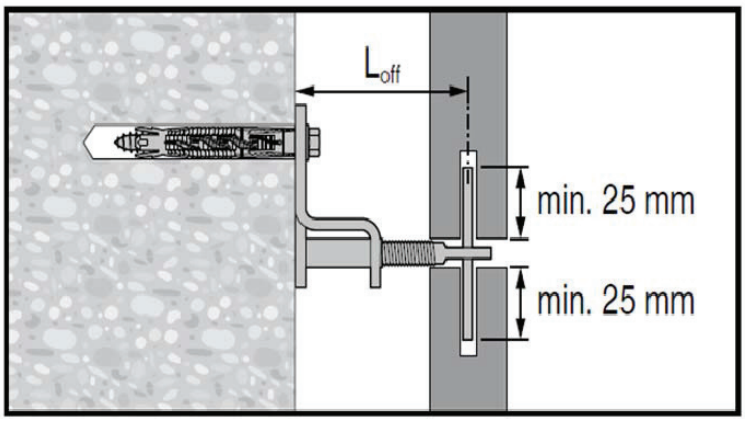
	Version	Benefits
	HC-SF-R 50-65 HC-SF-R 80-120 -Stainless steel (304SS) -Stainless steel (316SS)	Cold rolled steel - Better strength and loads Hybrid model - Better corrosion resistance Stable Design - Safe and reliable facade, overall alignment easy with more stability

Materials of HC-SF-R

Part		Geometry	Material
HC-SF-R 316SS	Rod	Thread M10	Stainless steel AISI 316 f_{yk}=450N/mm²
	Pin	Diameter ø = 5mm	
	Clamp	Thickness t = 5mm	Stainless steel acc. AISI 316 f_{yk}=250N/mm²
	Sleeve	Diameter $ø_S$ = 12,5mm Thickness t_S = 1,25mm	
HC-SF-R 304SS (Hybrid)	Rod	Thread M10	Stainless steel acc. AISI 316 f_{yk}=450N/mm²
	Pin	Diameter ø = 5mm	
	Clamp	Thickness t = 5mm	Stainless steel acc. AISI 304f_{yk}=250N/mm²
	Sleeve	Diameter $ø_S$ = 12,5mm Thickness t_S = 1,25mm	Stainless steel acc. AISI 316 f_{yk}=450N/mm²

Basic loading data (for a single clamp) All data in this section applies to

- Correct setting (see setting instruction)
- Clamp is fixed with a suited (base material, application conditions) anchor. Anchor design and anchor selection has to be done separately.
- Façade element with ability to transfer horizontal (shear) and vertical (compression) forces to the clamp.
- Static and/or quasi-static loading (not fatique loading)



Design resistance (with maximum horizontal loading: H_{Sd} = 0,3 kN each clamp)

Anchor size		Max L_{off} [mm]	HC-SF-R 50-65	HC-SF-R 80-120
Resistance V_{Rk} a)	[kN]	50	1,10	-
		55	0,88	-
		60	0,73	-
		65	0,63	-
		80	-	1,10
		85	-	0,88
		90	-	0,73
		95	-	0,63
		100	-	0,55
		105	-	0,49
		110	-	0,44
		115	-	0,40
		120	-	0,37

a) Design resistance for vertical loading per clamp; maximum horizontal loading: H_{Sd} = 0,3kN. Horizontal load H_{Sd} may act in both directions (tension and/or compression).

Recommended loads a) (with maximum horizontal loading: H_{rec} = 0,2 kN; each clamp)

Anchor size		Max L_{off} [mm]	HC-SF-R 50-65	HC-SF-R 80-120
Resistance V_{rec} b)	[kN]	50	0,79	-
		55	0,63	-
		60	0,52	-
		65	0,45	-
		80	-	0,79
		85	-	0,63
		90	-	0,52
		95	-	0,45
		100	-	0,39
		105	-	0,35
		110	-	0,32
		115	-	0,29
		120	-	0,26

a) With overall partial safety factor for action γ = 1,4. The partial safety factors for action depend on the type of loading and shall be taken from national regulations. The partial safety factor is γG = 1,35 for permanent actions and γQ = 1,5 for variable actions.

b) Design resistance for vertical loading per clamp; maximum horizontal loading: H_{rec} = 0,2kN. Horizontal load H_{rec} may act in both directions (tension and/or compression).

Setting instruction