



Approval body for construction products and types of construction

**Bautechnisches Prüfamt** 

An institution established by the Federal and Laender Governments



## European Technical Assessment

ETA-19/0275 of 6 October 2025

English translation prepared by DIBt - Original version in German language

#### **General Part**

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

Standing Seam System KingZip SF400

Roof and wall systems with hidden fastenings

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Jebel Ali, Dubai

Vereinigte Arabische Emirate

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Wentloog Ave
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12 pages including 8 annexes which form an integral part of this assessment

EAD 200035-00-0302



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English translation prepared by DIBt

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### **Specific Part**

#### 1 Technical description of the product

The "Standing Seam System KingZip SF400" consists of prefabricated wall and roof elements (profiled sheeting) and the appropriate hidden fastenings (halters). The wall and roof elements are made of stucco-embossed, mill finish or organically coated aluminum strip which is roll formed into profiled sheets in cold condition with a trough-shaped cross section of constant height. The halters made of extruded aluminium.

The profiled sheeting is connected with each other continuously forming a rainproof standing seam by crimping the lateral edge ribs of adjacent elements. The connection to the substructure is made by halters, not visible from above, crimped between the edge ribs, which has to be fastened to the substructure by appropriate fastening elements.

The components of the product (kit) are given in annexes A2 to A7.

# 2 Specification of the intended use in accordance with the applicable European assessment Document

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

#### 3 Performance of the product and references to the methods used for its assessment

#### 3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Profiled sheeting (roof and wall elements)	see annex B1
Accessibility (walk-on stability)	see annex B3
Halters (hidden fastenings)	see annex B2

#### 3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	stucco-embossed or mill finish profiled sheeting, halters: Class A1 organically coated profiled sheeting: Class F
External fire performance of the roof covering	No performance assessed



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### 3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Profiled sheeting (roof and wall elements):  - Dead load g  - Effective moment of inertia for downward and uplift loads l <sub>ef</sub>	see annex B1
Water tightness	No performance assessed
Water permeability	The profiled sheeting is water impermeable.

# 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 200035-00-0302 the applicable European legal act is: Decision 98/214/EC amended by Decision 2001/596/EC.

The system to be applied is: 2+

In addition, with regard to reaction to fire for products covered by this EAD outside the scope of Decision 2010/737/EC the applicable European legal act is: Decision 98/214/EC

The system to be applied is: 1

# 5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 6 October 2025 by Deutsches Institut für Bautechnik

Dr.-Ing. Ronald Schwuchow beglaubigt:
Head of Section Ortmann



### Material of the profiles:

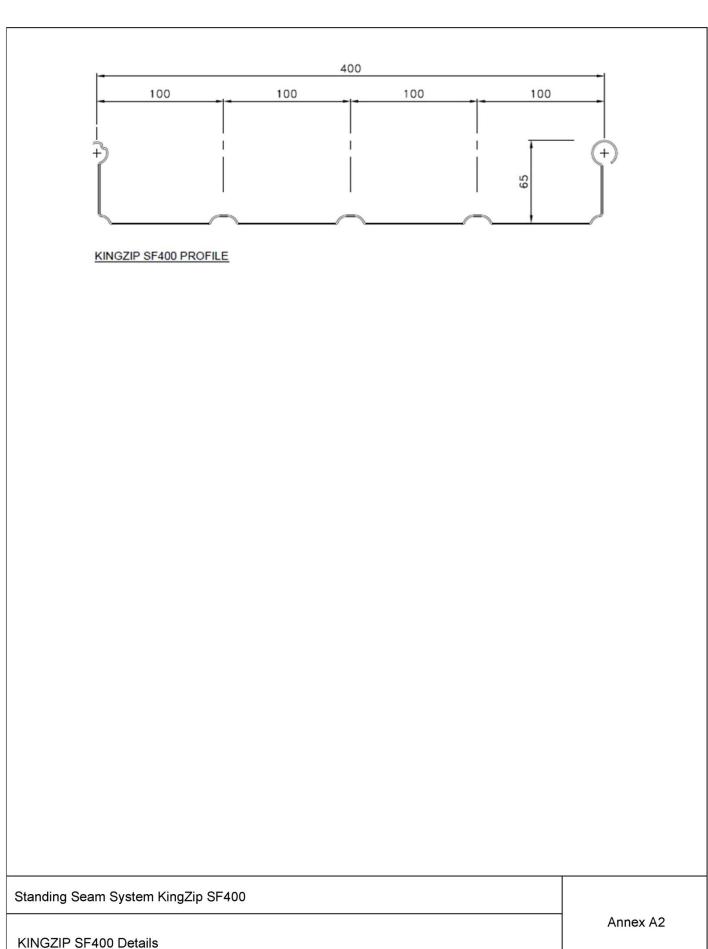
- The aluminum profiles according to annex A2 are made of EN AW-3004 according to DIN EN 573-3:2024-03 in the material condition H24 and H32 according to DIN EN 1396:2023-10.
- The nominal width of the profiles is 400 mm.
- The nominal sheet thickness is 0.9 mm.
- The minimum yield strength is 190 N/mm<sup>2</sup>.

#### Material of the halters:

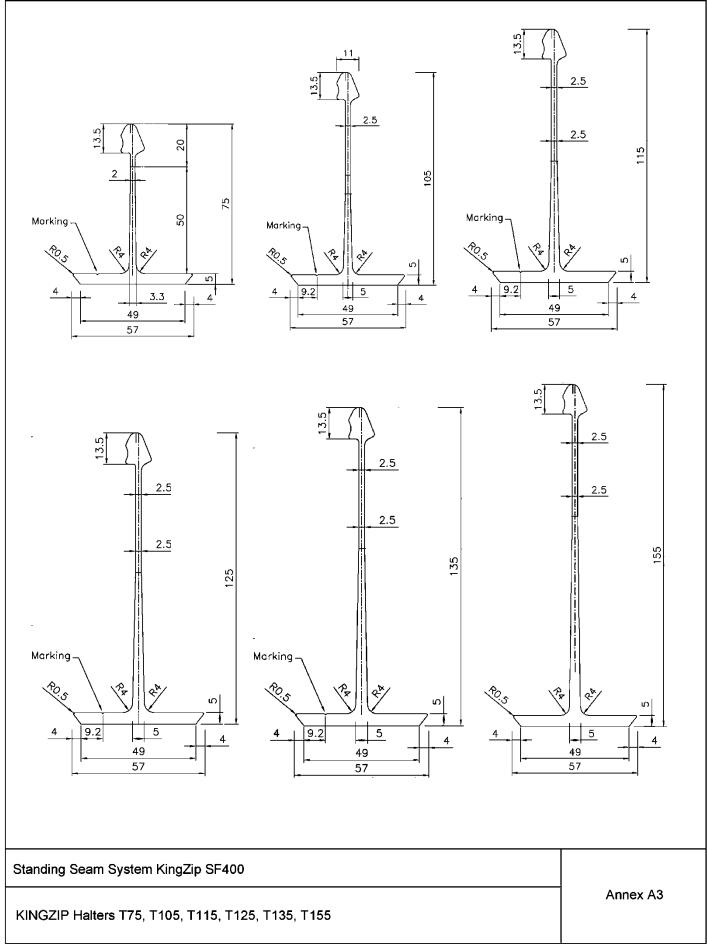
- The aluminum halters according to annex A3 to A5 are made of EN AW-6082 (condition T6) according to DIN EN 573-3:2024-03.
- The height of the halters is from 75 mm to 245 mm.

Standing Seam System KingZip SF400	
Materials	Annex A1



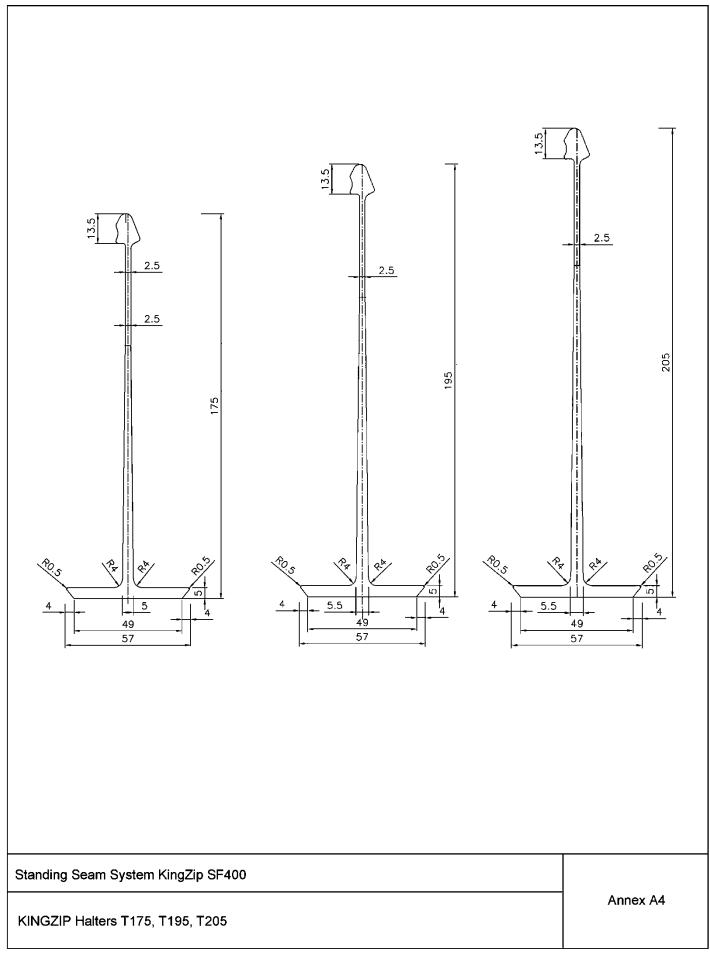






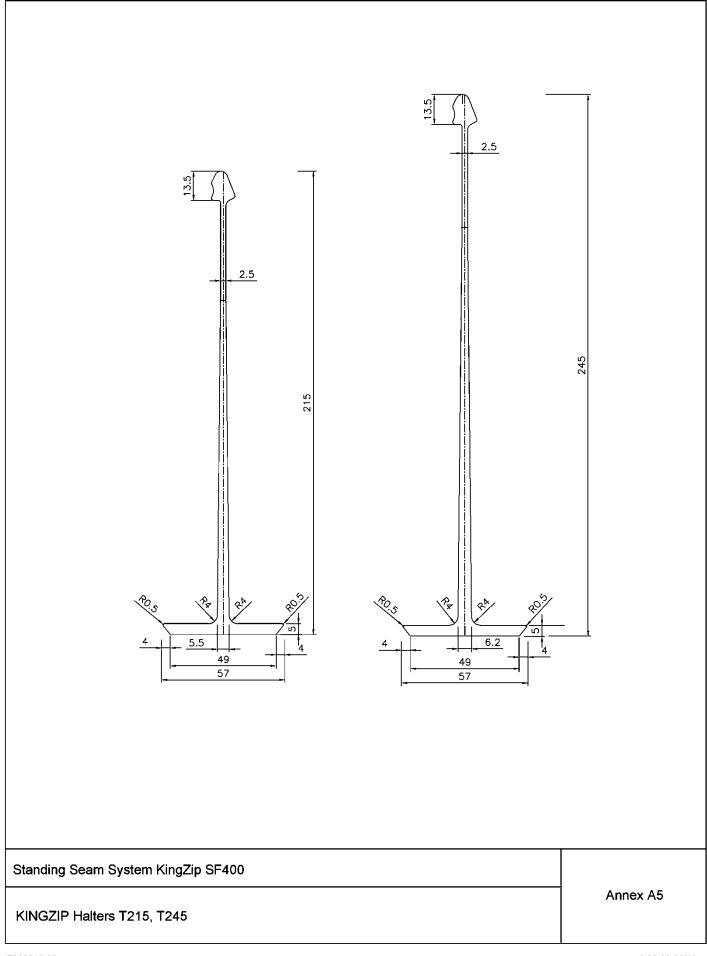
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	KINGZIP SF400 – Downward forces							
sheet thickness	dead load	Moment of inertia	field moment	end support reaction			at intermedi [F <sub>Ed</sub> /(R <sup>0</sup> Rk,Β/γ	iate supports /м)]² ≤ 1
t [mm]	g kN/m²	l <sub>ef</sub> cm⁴/m	M <sub>c,Rk,F</sub> kNm/m	R <sub>w,Rk,A</sub> kN/m	M <sup>0</sup> Rk,B kNm/m	R <sup>0</sup> Rk,B kN/m	M <sub>c,Rk,B</sub> kNm/m	R <sub>w,Rk,B</sub> kN/m
0.90	0.0354	94.48	1.38	5.02	1.47	69.17	1.41	10.04
		recommended γ <sub>M</sub> = 1.0	recommended γ <sub>M</sub> = 1.1					

KINGZIP SF400 – Uplift forces						
sheet thickness	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
t [mm]	M <sub>c,Rk,F</sub> kNm/m	R <sub>w,Rk,A</sub> kN/m	M <sup>o</sup> <sub>Rk,B</sub> kNm/m	R <sup>0</sup> Rk,B kN/m	M <sub>c,Rk,B</sub> kNm/m	R <sub>w,Rk,B</sub> kN/m
0.90	1.05	2.50	4.77	5.76	1.80	5.00
	recommended $\gamma_{M} = 1.1$					

Standing Seam System KingZip SF

Cross section properties and characteristic resistances
KINGZIP SF400

Annex B1



Characteristic resistances for aluminum-halter under pressure load in kN/halter			
Halter heights in mm	kN/halter		
75			
105			
115			
125			
135			
155	2.73		
175			
195			
205			
215			
245			
recommende	d γ <sub>M</sub> = 1.10		

Characteristic pull out resistance of the connection between halter and standing seam profile in kN/halter		
Sheet thickness in mm kN/halter		
0.90 3.60		
recommended γ <sub>M</sub> = 1.33		

Standing Seam System KingZip SF	
Characteristic resistances of aluminum halters	Annex B2



Accessibility (erecting state of the system)  Maximum span to resist 1.2 kN (tested with open seams)		
Sheet thickness in mm	KINGZIP SF	
	400	
0.90	2.40 m	

Accessibility (final state of the system) Maximum span to resist 1.2 kN without damage and a failure load ≥ 2.0 kN		
Sheet thickness in mm	KINGZIP SF	
	400	
0.90	2.60 m	

Standing Seam System KingZip SF

Annex B3

Accessibility