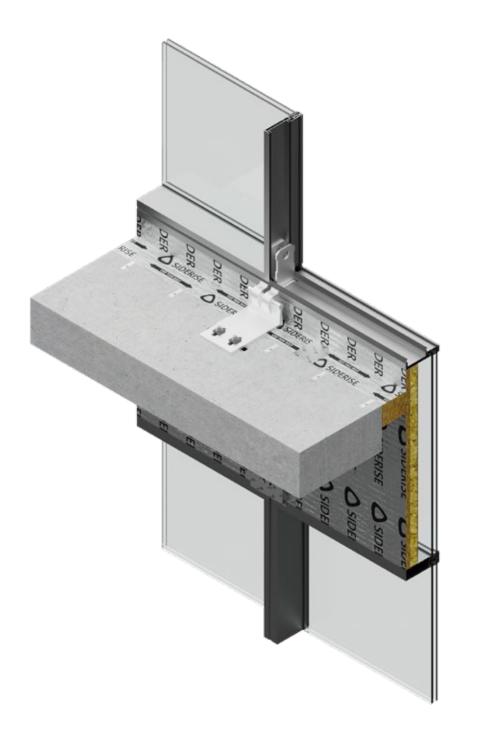
BY Your Side<sup>°</sup>



## PERIMETER FIRESTOP & PROTECTED Spandrel System

'Type A' non-fire rated curtain walls. Tested to EN 1364-4 in accordance with EAD 350141-00-1106

- UL Test Report 4789510601-2
- Fire Performance E 120 / I 120
- European Technical Assessment - 21/0297
- CE Mark 2531-CPR-CXO10200



### PERIMETER FIRESTOP & PROTECTED SPANDREL SYSTEM

Tested to EN 1364-4: 2014 in accordance with EAD 350141-00-1106

### Application

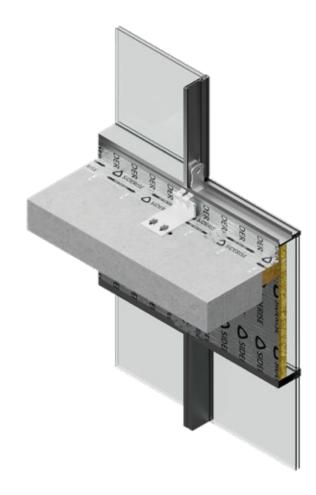
Siderise CW-FS and CW-FB have been jointly tested in conjunction with non-fire rated aluminium curtain wall assemblies to provide market leading fire resistance performance for the critical spandrel zone.

### **CW-FS Perimeter Firestop / Movement Joint**

Siderise CW-FS Curtain Wall Firestops have a unique lamella construction with vertical fibres to accommodate façade deflection over the life of the building.

EAD 350141-00-1106 requires the perimeter firestop to be cycled for 500 times to  $\pm$ 10% of the seal width prior to fire resistance testing. This cyclic movement is to simulate the dynamic stresses endured by the firestop over the design life of the building, due to wind loading, temperature changes, seismic loads, and building settlement.

Please see CW-FS Technical Data Sheet for additional EN 1364-4 and ASTM E 2307 fire resistance performance data.



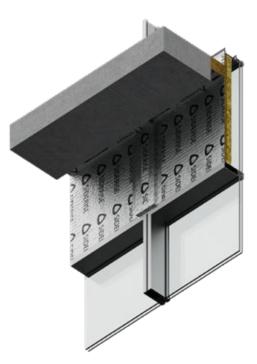
### System

Façade	Unitised curtain wall, Type A (non-fire rated)
Perimeter Firestop	CW-FS120 (120mm thick)
Seal Width	Up to 250mm
Seal Compression	10% (25mm)
Floor Slab	200mm (or greater)
Spandrel Protection	CW-FB (25mm thick)
Spandrel Insulation	50mm stonewool — classified A1 to EN 13501-1
Spandrel Height	Up to 900mm
Mullion Protection	CW-FB (25mm thick)
Siderise Standard Detail	SSD1986-A

### **CW-FB Spandrel Protection**

EN 1364-4 requires installation of the curtain wall assembly onto the furnace. For Type A non-fire rated curtain walling (the vast majority of curtain walling on the market), in order to be able to adequately test the perimeter firestop (CW-FS), the aluminium framing needs to be protected to allow it to persist for the required duration.

Siderise CW-FB is applied to the critical spandrel zone, including protection added to the aluminium mullions.



### **Fire Resistance Testing**

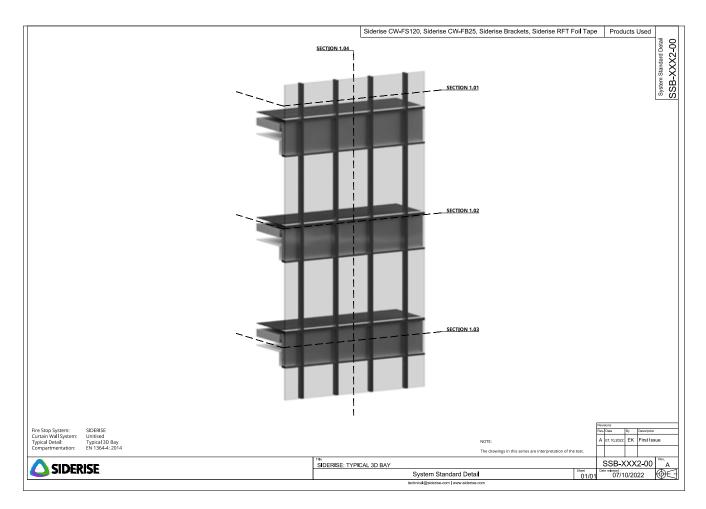
Test Report	4789510602-1
Test Date	15 October 2021
Tested in Accordance with European Assessment Document 350141-00-1106	Mechanically induced movement to $\pm 10\%$ the seal width – 500 cycles @ 30 cycles per minute
Fire Test Standard	EN 1364-4: 2014
Fire Resistance	120 Integrity [E] / 120 Insulation [I]
Classification to EN 13501-2	EI 120

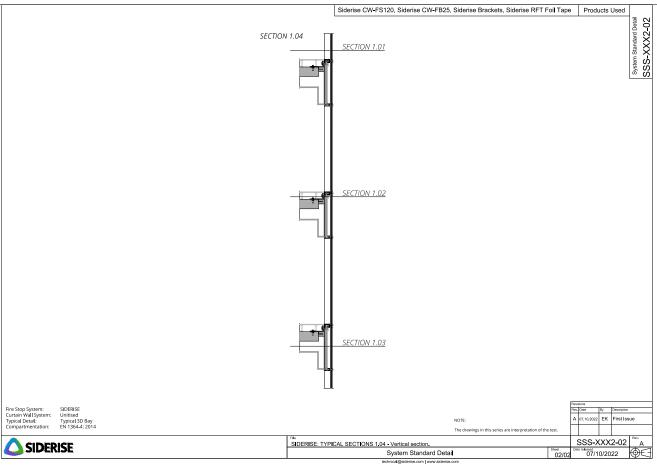


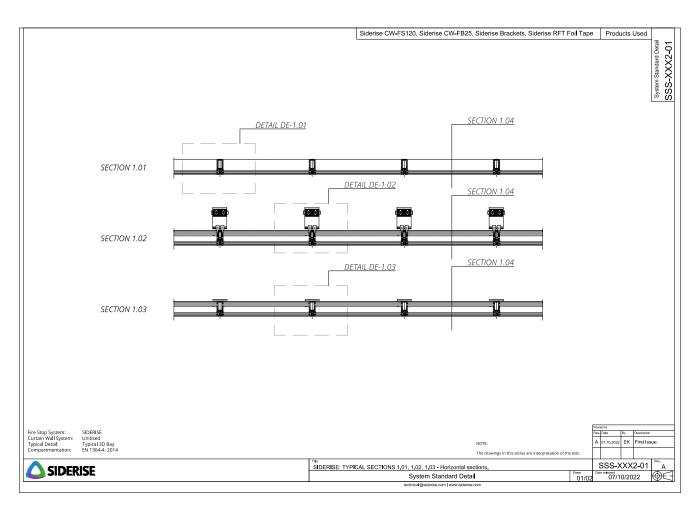
### **Third Party Certification**

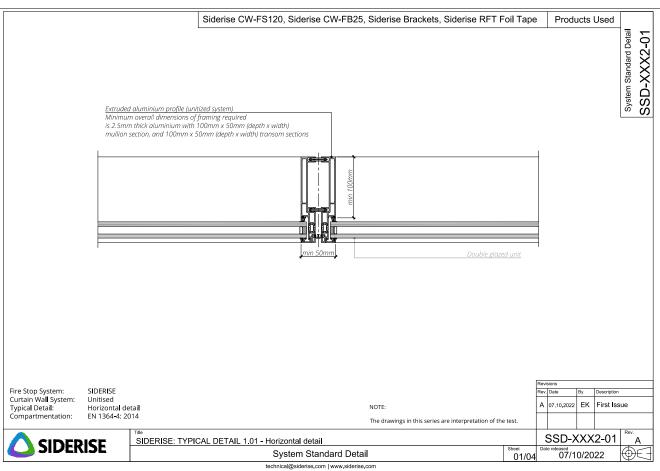
Certification Body	Туре	Certificate
ETA Danmark	European Technical Assessment	21/0297
DBI Certification	CE Mark	2531-CPR-CXO10200
UL	UL-EU Mark	Applied for
UL	UKCA Mark	Applied for

### **System Detail - Section**









<u>Concrete slab</u> (minimum thickness 200mm,minimum density 2000 kg/m <sup>9</sup> )	Siderise CW-FS120, Siderise CW-FB25, Siderise Brackets, Siderise RFT F	
SIDERISE RFT120 Joint Tape Applied to Joins'in adjacent SIDERISE CW-FS120 Width: 120mm Curtain wall attachment system to the structure (must comply with system manufacturer's requirements)		System Standard Detail
SIDERISE Standard Steel Bracket		
SIDERISE CW-FS120 (The void between the supporting floor and the facade should be a maximum of 250mm, with SIDERISE CW-FS120 being installed with 10% compression i.e. 275mm, please note bracket spacings to be 300/600/300 for a 1200mm length)		
<u>SIDERISE CW-FB 25mm thick insulation boards</u> (insulation density of 160 kg/m <sup>3</sup> ), aluminium foll-foced (The junction between the panels as well as the visible extremities of the panels are covered)		
Mineral wool insulation (minimum thickness S0mm, minimum density 60 kg/m³) Galvanized steel sheet (minimum thickness 1.0mm)		<u> </u>
Galvanized steel C-channel 30x50x30 (minimum thickness 3.0mm) Stainless steel self-tapping screws Ø 3.9 x 1.3mm		
(liocated at 50mm from the extremities of the opening and then located max. every 290mm horizontally and max. every 250mm vertically) <u>Bimetallic separation pad</u>		
Extruded aluminium profile (unitized system) Minimum overall dimensions of framing required is 2.5mm thick oluminium with 100mm x 50mm (depth x width) multion section, and 10mm x 50mm (depth x width) transom sections	Dout	ole glazed unit
Fire Stop System: SIDERISE Curtain Wall System: Unitised Typical Detail: Horizontal detail Compartmentation: EN 1364-4: 2014	NOTE: The drawings in this series are interpretation of the	Revisions         By         Description           A         07.10.2022         EK         First Issue
	CAL DETAIL 1.02 - Horizontal detail	SSD-XXX2-02 A
SIDERISE SIDERISE	System Standard Detail	Sheet 02/04 07/10/2022
	technical@siderise.com   www.siderise.com	

	Siderise CW-FS120, Siderise CW-FB25, Siderise Brackets, Siderise RFT Foil Tape	Products Used	
			Detail
Extruded aluminium profile (unitized system)			X2
Minimum overall dimensions of framing required is 2.5mm thick aluminium with 100mm x 50mm (dep mullion section, and 100mm x 50mm (depth x width)			System Standard Detail SSD-XXX2-03
Galvanized steel C-channel 30x50x30 (minimum thick	ness 3.0mm)		syst SS
SIDERISE CW-FB 25mm thick insulation boards (insulation density of 160 kg/m <sup>3</sup> ), aluminium foil-face. (The junction between the panels as well as the visible of the panels are covered)	extremities		
Galvanized steel sheet (minimum thickness 1.0mm)		00000000000000000000000000000000000000	
Mineral wool insulation (minimum thickness 50mm, minimum density 60 kg/m³)		5mm	
Stainless steel self-tapping screws Ø 3.9 x 13mm (located at 50mm from the extremities of the opening and then located max. every 290mm horizontally and max. every 250mm vertically)		min 15r	
Bimetallic separation pad	- in Double g	lazed unit	
Fire Stop System: SIDERISE		Revisions Rev. Date By Description	
Curtain Wall System: Unitised Typical Detail: Horizontal detail Compartmentation: EN 1364-4: 2014	NOTE:	A 07.10.2022 EK First Iss	sue
Title	The drawings in this series are interpretation of the test.		Rev.
	YPICAL DETAIL 1.03 - Horizontal detail	SSD-XXX2-03	A
	System Standard Detail 03/04 technical@siderise.com	07/10/2022	WU

	Siderise CW-FS120, Siderise CW	/-FB25, Siderise Brackets, Siderise RFT Fo	bil Tape Products Used	
		Double glazed unit	d Detail	
Curtain wall attachment system to the structure (must comply with system manufacturer's requirer	nents)	min 100mm Extruded aluminium profile (unitized sy Minimum overail dimensions of framin 5 2.5mm thick aluminium with 100mm mullion section, and 100mm s 50mm (	g required	
Eloor build-up SIDERISE Standard Steel Bracket			System SSD	
<u>Cast-in Channel</u>		Golvanized steel C-channel 30x50x30 (r SIDERISE CW-F5120 anis Somm (The void between the supporting floor	and the facade should be	
<u>Concrete slab</u> (minimum thickness 200mm, minimum density 20	100 kg/m <sup>3</sup>	a maximum of 250mm, with SUBERSE 	imm, please note bracket	
Internal finish		TGU 8 / 16 / 8 / (32mm) 8 mm - ESG glass 1 fimm - stainless steel spacer	kness 50mm, minimum density 60 kg/m፻	
SIDERISE CW-FB 25mm thick insulation boards (insulation density of 160 kg/m <sup>3</sup> ), aluminium foil-fi (The junction between the panels as well as the vis of the panels are covered)		Brim - ESG glass	iess 1.0mm)	
Bimetallic separation pad		Golvanized steel C-channel 30x50x30 (r	ninimum (hickness 3.0mm)	
Stainless steel self-tapping screws Ø 3.9 x 13mm (located at 50mm from the extremities of the oper and then located max. every 290mm horizontally and max. every 250mm vertically)	ing	Extruded aluminium profile (unitized s) Minimum overall dimensions of frami- tics 2 sorm thick aduminium with 100mm multion section, and 100mm × 50mm	ng required n x 50mm (depth x width)	
Fire Stop System: SIDERISE Curtain Wall System: Unitised Typical Detail: Vertical detail Compartmentation: EN 1364-4: 20		NOTE: The drawings in this series are interpretation of the t	Revelors           Rev. Date         By         Description           A         07.10.2022         EK         First Issue           test.         Image: Second Sec	
	Title SIDERISE: TYPICAL DETAIL 1.04 - Vertical detail	1	SSD-XXX2-04 A	
	System Standar	d Detail		
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# B Y Y O U R S I D E °

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Fire Protection Association



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