

# TEST REPORT

## EU FACADE TEST 4

<b>Name of sponsor:</b>	CPH Village Holding ApS		
<b>Product name:</b>	EU facade test draft 6		
<b>File no.:</b>	PGC10028A	<b>Revision no.:</b>	1
<b>Test date:</b>	30-11-2023	<b>Date:</b>	10-01-2024
<b>Pages:</b>	13	<b>Encl.:</b>	95
<b>Ref:</b>	CHD / CHB		

## Client information

---

Client: CPH Village Holding ApS  
Address: C/O CPH Village  
Refshalevej 161F  
1432 København K  
Denmark

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

<b>Revision chronology</b>				
Rev. no.	Date	Description	Author	Approved
0	18-12-2023		CHD	CHB
1	10-01-2023	Added the description of the temperature rise in the ventilation cavity.	CHD	NOL

## Content

Client information .....	2
Date of test.....	4
Purpose of test .....	4
Test specimen.....	4
Drawings and description .....	4
Description.....	5
Measured by DBI.....	8
Test conditions .....	9
Conditioning .....	9
Mounting .....	9
Fire test.....	9
Test results .....	10
Measurements.....	10
Visual observations:.....	12
Conclusion .....	13
Remarks .....	13

## Date of test

The test was conducted on 30-11-2023.

## Purpose of test

Examination of the fire performance of a façade using the large fire exposure.

The test specimen has been subjected to a fire test in accordance with the following draft standards:

ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE

Draft revision 6

Draft Date: 2022 – 11 – 18

**The test was not performed accredited.**

## Test specimen

The trade name and sponsors identification mark are stated below:

Trade name: None

Identification mark: None

The components for the test specimen were delivered and mounted by the sponsor.

## Drawings and description

Details of the construction are shown in the enclosed documentation as stated below:

Type	Drawing No.	Dated	Subject
Drawing	TU_ST3_No8	15-11-2023	Mock Up BFUH 3 CPH-Village
Drawing	TU_ST3_No1	15-11-2023	BFUH 4 CPH Village Konstruktion
Drawing	TU_ST3_No2	15-11-2023	BFUH 4 CPH Village Konstruktion OSB
Drawing	TU_ST3_No3	15-11-2023	BFUH 4 CPH Village Første lag 12 mm Vindtett
Drawing	TU_ST3_No4	15-11-2023	BFUH 4 CPH Village Andet lag 12 mm Vindtett
Drawing	TU_ST3_No5	15-11-2023	BFUH 4 CPH Village Inddækning+ Flammeafbøjer
Drawing	TU_ST3_No6	15-11-2023	BFUH 4 CPH Village afstandslister+stolper+membran
Drawing	TU_ST3_No7	15-11-2023	BFUH 4 CPH Village Beklædning
Drawing	TU_ST4_No1	15-11-2023	Detalje plan brandkammer
Drawing	TU_ST4_No2	15-11-2023	Detalje plan vindue over flammeafbøjer
Drawing	TU_ST4_No3	15-11-2023	Detalje sålbænk under vindue
Drawing	TU_ST4_No4	15-11-2023	Detalje flammeafbøjer

Drawing	TU_ST4_No5	15-11-2023	Detalje sålbænk over vindue
Drawing	GKB-116644	11-10-2023	Topprofil, Lg. 2400
Drawing	GKB-116645	11-10-2023	Bundprofil, 2 mm plade
Drawing	GKB-116646-indv	13-10-2023	Indv. Hj. Top, 2 mm plade, 1 of 2
Drawing	GKB-116646-indv	13-10-2023	Indv. Hj. Top, 2 mm plade, 2 of 2
Drawing	GKB-116647-indv	13-10-2023	Indv. Hj. Bund, 2 mm plade, 1 of 2
Drawing	GKB-116647-indv	13-10-2023	Indv. Hj. Bund, 2 mm plade, 2 of 2

The documentation is supplied and stamped by DBI - Danish Institute of Fire and Security Technology

## Description

The test specimen consisted of the components described in the following. DBI inspected the components during mounting, the test and after the test.

The sponsor carried out the selection of the products for the test specimen as well as the mounting.

External measures:	Height: 9197 mm	Main width: 3510 mm	Wing width: 1546 mm	Thickness: 351 mm With flame deflector: 654 mm
--------------------	-----------------	---------------------	---------------------	---

The test specimen was a ventilated façade made of horizontal wood boards, mounted on vertical formwork. Flame deflector profiles were installed above fire chamber and windows on the main facade.

The build-up of the façade system is shown on the attached drawings, supplied by the sponsor. The construction of the facade is described from the first layer on the aerated concrete frame.

**First Layer:** The first layer consisted of prefabricated cassettes which were built from untreated construction wood C24 with dimensions 45 x 245 mm with a nominal density of 480 kg/m<sup>3</sup>. The prefabricated cassettes were mounted vertically with a distance of approx. 550 mm. The construction wood C24 cassettes protruded approximately 1627 mm above the aerated concrete façade rig. There were 8 cassettes in total, and they were mounted with 550 mm in between the horizontal gaps. See drawing No. TU\_ST3\_No1.

The backside of the prefabricated cassettes was closed with 15 mm OSB board with a nominal density of 550 kg/m<sup>3</sup>.

**Fixing of first layer:** The construction woods C24 were fixed to each other with steel angles designated Paslode 90 x 90 x 65 with screws designated Paslode DS413 4.0 x 40 mm at 4 corners of the cassette. The T- conjunctions of the construction woods were fixed with nails designated TJEP GR 3.1 x 90 mm with a c/c distance of 20 mm.

The OSB boards were fixed on the prefabricated cassette with nail designated Tjep ZE 2.5 x 65 ring. The c/c distance of the nails was approx. 150 mm.

The cassettes were put on 2 ACW 155 Simpson strong-tie console bracket which were fixed to the aerated concrete frame with 4 screws designated Spit ACS CSK ø8 x 90/30 mm. One screw designated Paslode 5.0 x 40 mm was used to connect the cassette and each console bracket. All the other edges of prefabricated cassettes were fixed to the aerated concrete with steel angles designated Paslode 90 x 90 x 65. 4 screws designated Paslode 5.0 x 40 mm were used to connect the angle to the wood. The angles were fixed to the aerated concrete with one screw designated Spit ACS CSK ø8 x 90/30 mm. The angles were mounted with a c/c distance of approx. 600 mm in

horizontal and 900 mm in vertical. The gap between the cassettes and the concrete was approx. 10 mm.

**Gaps in the first layer:** The gaps between 2 cassettes were filled with wood and insulation. On the top of the gap, construction wood C24 with dimensions of 45 x 245 mm and 45 x 145 mm were mounted on the upper prefabricated cassette. On the bottom, the construction wood with dimensions of 45 x 195 mm, 45 x 100 mm and 45 x 70 mm were mounted on the lower prefabricated cassette. The insulation designated Rockwool flexibatts 37 with the thickness of 95 mm and 70 mm and with the nominal density of 32 kg/m<sup>3</sup> were placed in the gap. One layer of 95 mm mineral wool was placed in between the 2 layers of 70 mm mineral wool. See drawing No. TU\_ST4\_No4.

The plywood designated Radiata Pine TG2 15 mm with a width of 250 mm and a nominal density of approx. 500 kg/m<sup>3</sup> were mounted on the construction wood to close the back side of the gap, plywood width 595 mm were used to close the front side of the gap. See drawing No. TU\_ST4\_No4.

**Fixing of gaps:** On the backside of the gap, the construction wood C24 45 x 245 mm and 45 x 145 mm were fixed with each other together with screw designated NKT Spun+ 4.5 x 70 mm, the c/c distance of screws was 600 mm, and fixed to the prefabricated cassette with screws designated NKT Topkon TK 8.0 x 180 mm, the c/c distance between screws was 600 mm. The construction wood C24 45 x 100 mm and 45 x 195 mm were fixed with each other together with screw designated NKT Spun+ 5.0 x 120 mm, the c/c distance of screws was 600 mm, and fixed to the prefabricated cassette with screws designated NKT Spun+ 4.5 x 70 mm, the c/c distance between screws was 600 mm.

On the front side of the gap, the construction wood C24 45 x 145 mm was fixed to the prefabricated cassette with screws designated NKT Topkon TK 8.0 x 180 mm, the c/c distance between screws was 600 mm. The construction wood C24 45 x 70 mm was fixed to the prefabricated cassette with screws designated NKT Spun+ 4.5 x 70 mm, the c/c distance between screws was 600 mm.

The plywood was fixed to the construction wood C24 with screws designated NKT Spun+ 4.5 x 70 mm, the c/c distance between screws was 300 mm. See drawing No. TU\_ST4\_No4.

**Insulation in first layer:** 2 layers of insulation designated Hunton Nativo wood fiber board with a size of 1220 x 565 x 120 mm and a nominal density of 50 kg/m<sup>3</sup> were placed in the prefabricated cassettes.

**Second layer:** Two layers of Hunton wood fiber-based windbreaker boards 12 mm with a nominal density of 235 kg/m<sup>3</sup>, were mounted on the construction wood C24 of all three cassettes. See drawing No. TU\_ST3\_No3.

The fiber cement wind panel designated Cembrit Windstopper Basic with a thickness of 9 mm and a nominal density of 1450 kg/m<sup>3</sup> were mounted on the plywood of the gap as the second layer. See drawing No. TU\_ST3\_No4.

**Fixing of second layer:** The wood fiber windbreaker boards were fixed with staples designated Tjep PZ-16 64 mm with a distance of 100 mm along the edges and 250 mm along the center of the boards.

The fiber cement wind panel were fixed with nails designated Tjep ZE 2.5 x 65 mm with a c/c distance of 150 mm.

**Third layer:** A layer of Traspir alu 430 with a nominal thickness of 0.43 mm and a width of 1180mm was mounted on the top of the windbreaker with a horizontal overlap of 200 mm.

**Fixing of third layer:** The Traspir alu 430 membrane was fixed on the windbreaker with staples designated Tacwise 140 / 10 mm with a c/c distance of 200 mm.

The top and bottom edges of the membrane were taped on the fiber cement wind panel with tape designated Hunton Tescon Vana with a width of 60 mm. The overlaps of the membrane were taped with tape designated FRONT BAND UV 210.

See photo No. 8.

**Flame deflector:** The flame deflectors were made with 2 mm steel profile with a 4-degree slope top page. Fixed on the façade with 1 screw designated RedHorse CORONA™ RXB 4.8 X 60 EPDM-9.5B, the c/c distance between screws was 200 mm. Top and bottom profile fasten with 1 RF rivet designated Gesipa 4.0 x 8.0 mm, the c/c distance between rivets was 300 mm. Joint in fire deflectors between top and bottom profile is offset according to drawings. Longitudinal holes were minimum 20 mm long and the screws were placed in the middle of elongated hole during assembly so that expansion could take place. The flame deflectors protruded 324 mm out from the surface of the cladding and 280 mm out from the edge of the façade. The top Flame deflector protruded approx. 1000 mm out from the edge of the façade on both sides. They air gap inside the Flame deflectors was filled with insulation at the ends to prevent a horizontal air flow.

All details about the flame deflectors are shown on the following drawings: GKB-116644, GKB-116645, GKB-116646-indv, GKB-116647-indv and drawing No. TU\_ST3\_No8.

**Formwork:** The impregnated wood formworks with a dimension of 25 x 50 mm with a nominal density of 450 kg/m<sup>3</sup> were mounted horizontally of the main façade. The distance between the formwork as shown on drawing No. TU\_ST3\_No6.

**Fixing of formwork:** The formworks were fixed with 1 nail designated Tjep GR 3.1 x 90 ring the c/c distance between nails was approx. 300 mm. The min. distance between the formwork ends and the nail was 50 mm.

**Cladding:** Wooden boards designated Frøslev profile 2685 with a dimension of 21 x 120 mm and nominal density of 400 kg/m<sup>3</sup> with groove and tongue were mounted horizontally on the top of the formworks as the cladding.

**Fixing of cladding:** The cladding was fixed on the formwork horizontally with 1 nail designated Tjep ZE 2.5 x 50 mm ring. See drawing No. TU\_ST3\_No7.

**Finishing layer:** The Frøslev 25 x 50 civil profiles 4262H with a size of 21 x 45 mm and a nominal density of approx. 450 kg/m<sup>3</sup> were fixed vertically on the cladding. The c/c distance of the profiles as shown on drawing No. TU\_ST3\_No7.

**Fixing of finishing layer:** The Frøslev 25 x 50 civil profiles were fixed with 1 nail designated Tjep ZE 2.5 x 50 mm ring. The c/c distance of the nails was approx. 120 mm.

**Window and fire chamber details:** **Top of window and fire chamber:** The 0.6 mm Alu-Zink profiles were mounted on the top of the window and fire chamber with 1 Tjep ZE 2.5 x 50 mm Ring nail. The c/c distance of nails was 300 mm. They were protruding 70 mm from the cladding. The profile has a 6-degree slope top page.

The profiles on top of the window are shown on drawing No. TU\_ST4\_No5.

**Bottom of window:**

The 0.6 mm Alu-Zink profiles were mounted on the bottom of the window with 1 Tjep ZE 2.5 x 50 mm Ring nail. The c/c distance of nails was 300 mm. They were protruding 70 mm from the cladding. The profile has a 6-degree slope top page.

The profiles on bottom of the window are shown on drawing No. TU\_ST4\_No3.

**Window and Fire chamber sides:**

The 0.6 mm Alu-Zink profiles were mounted on window and fire chamber sides with 1 Tjep ZE 2.5 x 50 mm Ring nail. The c/c distance of nails was 300 mm. They were protruding 70 mm from the cladding.

The profiles on top of the side of window are shown on drawing No. TU\_ST4\_No2.

Insulation and sealant: Between the prefabricated cassette and the aerated concrete of the façade the mineral wool was used to close the gap.

The side of the main façade was covered by mineral wool insulation.

Between the prefabricated cassette and the aerated concrete around the fire chamber and the ceramic wool was used to close the gap and on top of that a fire sealant was used to close of the airgap.

**Measured by DBI**

Product		Rockwool Flexibatt 37 70 mm	Rockwool Flexibatt 37 95 mm	Hunton Nativo wood fiber board	Formwork	Construction wood C24 95 mm	Construction wood C24 70 mm
Density	kg/m <sup>3</sup>	29	29	52	409	467	492
Thickness	mm	70	95	117	24.7	45	45
Moisture content	%	0.9	0.7	11	12.8	12.6	12.9
Organic content	%	2.1	2.1				
Sampling method		Extra material	Extra material	Extra material	Extra material	Extra material	Extra material
Drying temperature	°C	105	105	105	105	105	105

Product		Construction wood C24 145 mm	Construction wood C24 195 mm	Plywood board	Construction wood C24 245 mm	Cladding	Fiber cement board
Density	kg/m <sup>3</sup>	460	433	453	455	470	1555
Thickness	mm	45	45	14.8	45	21	8.8
Moisture content	%	13.5	13	8.8	13.3	12.6	4.3
Sampling method		Extra material	Extra material	Extra material	Extra material	Extra material	Extra material
Drying temperature	°C	105	105	105	105	105	105

Product		Sterling OSB 15	Frøslev 25 x 50 civil profile 4262H	Cembrit Windstopper Basic panel
Density	kg/m <sup>3</sup>	574	434	222



Thickness	mm	14.8	21.5	11.9
Moisture content	%	9.3	17.7	7.9
Sampling method		Extra material	Extra material	Extra material
Drying temperature	°C	105	105	105

\*The density of the cladding measured by DBI is more than 10% higher than the nominal density.

## Test conditions

### Conditioning

The materials for the test specimen were delivered on the 23-10-2023 to the DBI laboratory and stored under room temperature. On the day of the fire testing the condition of the test specimen was similar with respect to its moisture content as the test specimen would be in normal service.

The installation of the test specimen on the test rig was completed on the 26-10-2023.

### Mounting

The test specimen was mounted on the test rig that had a size of 7990 mm in height and with main surface of 3620 mm and wing 1900 mm wide. The surface of the test rig was built with 150 mm aerated concrete blocks, with a nominal density of 575 kg/m<sup>3</sup>.

The design and location of the combustion chamber opening in the main face was in accordance with the design details specified in the standard ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE Draft revision 6, Draft Date: 2022 – 11 – 18.

Each of the two vertical sides was closed off with stone wool before the fire test.

### Fire test

The fire test was conducted in the following conditions:

- Ambient temperature: approx. 7 °C at the start of the test (see Enclosures 3.0 and 3.1)
- Ambient air velocity: Not measured (test undertaken indoor where ambient air speed and/or wind did not affect the test)
- Mechanical exhaust: 80.000 m<sup>3</sup>/h (at ambient temperature) even distributed in the ceiling of the test hall with a combined exhaust duct to the air filter cleaning system.

Observations were made during the test on the general behaviour of the test specimen.

Temperature observations were taken continually during the entire testing time.

The temperatures were measured on the external and internal layers of the test specimen as indicated on DBI drawing enclosure no. 1.0 - 1.1. All thermocouples that were used according to the standard ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE are named I.1.1-1.9, I.2.1-1.2.8 and I.3.1- I.3.8. All other thermocouples are for informative uses.

The temperature was determined by means of type-K sheathed thermocouples specified in, ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE.

The thermocouples named I.1.1-1.9, I.2.1-I.2.8 and I.3.1- I.3.8 were constructed of junctions of nickel chromium/nickel aluminium (type K) wire as defined in EN 60584-1 contained within mineral insulation in a heat resisting alloy sheath of nominal diameter 2.0 mm. Designated as a sheathed thermocouple.

The furnace plate thermocouples were constructed according to EN 1363-1, and all other thermocouples were made from type-k thermocouples wire with 0.5mm in diameter twisted together in the end.

The wood crib was constructed following the principles in ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE. The dimensions of the spruce sticks were approx. 45x45 mm and the external dimension of the 24-layer wood crib was 1.5m x 1m x 1.08m (width x depth x height). The wood crib was stored at approx. 20°C in dry conditions and was at the time of the fire test in equilibrium with the surroundings. The spruce sticks were nailed together to construct the crib and was installed on a closed bottom surface made of a 20 mm thick calcium silicate board with dimensions of 1300 mm x 1900 mm. The crib was placed 100 mm from the back wall and centred from the sidewalls of the combustion chamber. The average density of the wood was approx. 500 kg/m<sup>3</sup>.

In front of the combustion chamber, a platform was placed which had a size of 1850 x 3200 mm. It was placed with the upper edge 100 mm below the floor of the combustion chamber. This was done to simulate a comparable air flow and buoyancy that will occur if the weight for fallings parts was used. which should have been placed in front of the facade according to ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE section 4.7.4.

The test was terminated after 60 minutes.

## Test results

Duration of the test was 60 minutes.

### Measurements

---

The enclosed graphs and tables show:

Enclosures 2.0 and 2.1	The temperature in the fire chamber during the test
Enclosures 3.0 and 3.1	Ambient temperature The ambient temperature in the laboratory during the test
Enclosures 4.0 and 4.1	Flux in Location 1
Enclosures 5.0 and 5.1	Temperature measured in the ventilated cavity
Enclosures 6.0 and 6.1	Temperature measured in the ventilated cavity
Enclosures 7.0 and 7.1	Temperature measured in the ventilated cavity
Enclosures 8.0 and 8.1	Plate thermocouple Plate TC.1 Location 1 Plate TC.2 Location 2

Enclosures 9.0 and 9.1	Location 1 - TC on PlateTC
Enclosures 10.0 and 10.1	Location 2. 5 m from facade 4.5 m height.
Enclosures 11.0 and 11.1	Thermocouple TC.1 Location 1 TC.2 Location 2
Enclosures 12.0 and 12.1	Flux TC Flux.TC.2 located 3 m from fire chamber
Enclosures 13.0 and 13.1	Temperature rise measured 50mm from the facade
Enclosures 14.0 and 14.1	Temperature rise measured in ventilation layer
Enclosures 15.0 and 15.1	Temperature rise measured in middle of insulation
Enclosures 16.0 and 16.1	Temperature rise measured according to the standard - 50 mm from facade. Minimum of 30 sec
Enclosures 17.0 and 17.1	Temperature rise measured according to the standard - ventilation layer. Minimum of 30 sec
Enclosures 18.0 and 18.1	Temperature rise measured according to the standard - in the middle of the insulation. Minimum of 30 sec
Enclosures 19.0 and 19.1	Temperature measured behind windbreaker
Enclosures 20.0 and 20.1	Temperature measured back side of insulation
Enclosures 21.0 and 21.1	Temperature measured middle of insulation
Enclosures 22.0 and 22.1	Vertical measurements on main facade
Enclosures 23.0 and 23.1	Vertical measurements on main facade
Enclosures 24.0 and 24.1	Vertical measurements on the wing
Enclosures 25.0 and 25.1	Vertical measurements on the wing

Enclosures 26.0 and 26.1      Horizontal measurements

Enclosures 27.0 and 27.1      Horizontal measurements

Enclosures 28.0 and 28.1      Plate thermocouple on facade

\*For Enclosures 5.0 and 5.1, the temperature measured after 45 min is not valid, the temperature can be referred to Enclosure 14.0 and 14.1.

### Visual observations:

---

Time / Minutes	Visual observations:
-------------------	----------------------

0	Test start
1	Flame reach to the middle of the first window
4	Flame reach to the top of the first window
4	Cladding above the fire chamber start burning
5	The wing cladding under the first flame deflector start burning
6	Flame reach to the second flame deflector
6	Cladding between the first window and first flame deflector start burning
8	Wing façade above the first flame deflector charred
11	Cladding between the first and second flame deflector start burning
13	The wing façade below the second flame deflector all blacked
20	Approx. 10 x 10 cm piece dropped on the floor
21	More pieces approx. 15 x 15 cm dropped on the floor
24	More pieces
25	Pieces dropped on the floor and continue burning
26	Pieces dropped on the floor and continue burning
29	Smoke come from the right side of the first flame deflector
33	Lower plate TC drooped from the cladding
36	Fire at the edge of wing façade above the second flame deflector
40	Smoke from the left side of the main façade above the second flame deflector
43	The wind breaker between first and second flame deflector on the wing façade start burning
56	Approx. 30 x 10 cm piece dropped on the floor and continue burning
60	Test stop

The photographs on the attached photo sheets show the test specimen during the mounting, testing and after the test. See the description at each photo.

## Conclusion

Fire testing according to daft version of: ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE, the construction described in this test report showed that failure according to the performance criteria stated in the test method occurred at the following time:

Performance	Criterion	Test result
<b>Fire spread</b>	Vertical fire spread	60 minutes
	Horizontal fire spread	4 minutes
	Burning parts	25 minutes
<b>Falling parts – Level 0</b>	Falling parts – (Level 0)	20 minutes
<b>Falling parts – Level 1</b>	Falling parts – (Level 1)	No failure
<b>Falling parts – Level 2</b>	Falling parts – (Level 2)	No failure

The test was terminated after 60 minutes.

## Remarks

The test was an Ad-Hoc test, there is no field of application.

This report details the method of construction, the test conditions and the results obtained when the specific element of construction described herein was tested following the procedure outlined in ASSESSMENT OF FIRE PERFORMANCE OF FACADES USING LARGE FIRE EXPOSURE.

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result.

This report has only been printed in a pdf-version. DBI has not issued a hard copy version.  
All values mentioned in this report are nominal values, production tolerances are not considered.

**The test was not performed accredited.**

### Danish Institute of Fire and Security Technology



**Chunyang Dong**  
Resistance to Fire Engineer



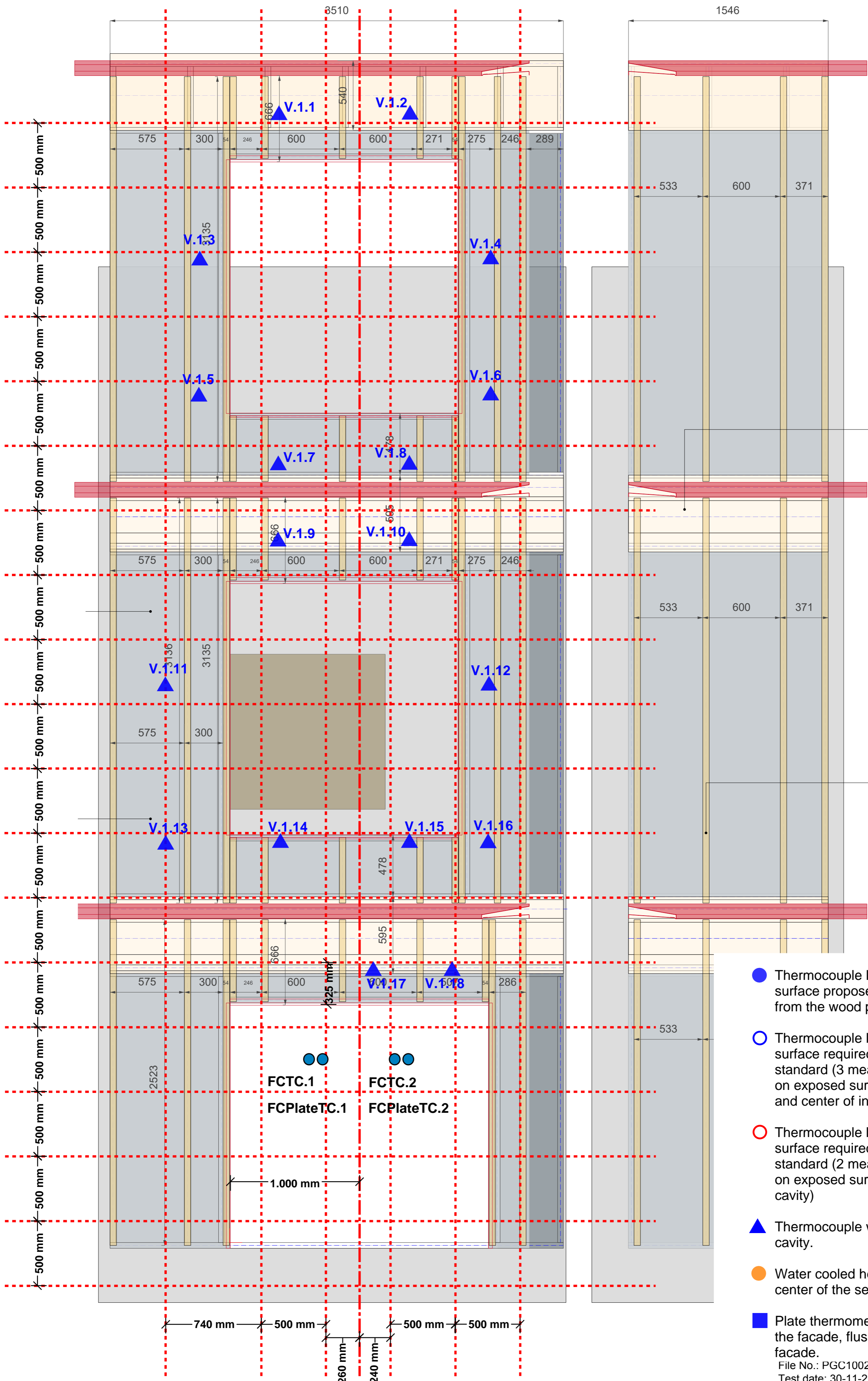
**Christian Basbøll**  
Resistance to Fire Engineer

#### CPH Village Holding ApS

C/O CPH Village  
Refshalevej 161F  
1432 København K  
Denmark

#### Enclosures: 95

DBI drawings: 2  
DBI graphs and tables: 54  
Photo sheets: 20  
Sponsors drawings: 19

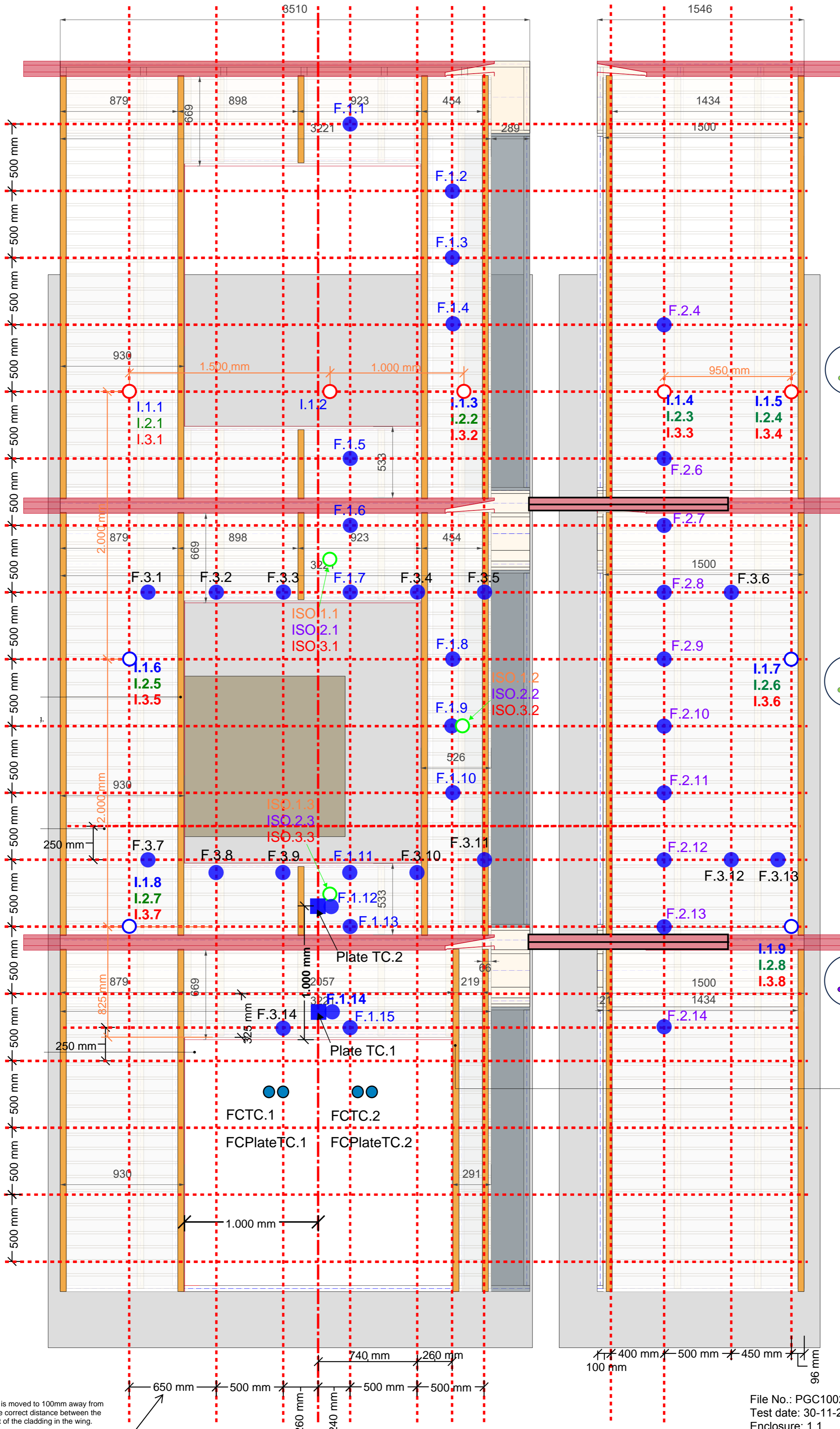


**Vindspærre i etagedskillelse**  
 CEMBRIT WINDSTOPPER BASIC  
 A2-s1, d0  
 9MM  
 Fastgøres med Tjep 2.5 x 65 mm

**Afstandsliste**  
 Trykimprægneret 25X50  
 afstandslister  
 Monteres lodret pr 600 mm  
 Fastgøres med Tjep ringsøm  
 varmgalvaniseret 3,1X100

- Thermocouple location on the facade surface proposed by Guoxiang (5 cm from the wood panel surface).
- Thermocouple location on the facade surface required according to the standard (3 measurements: 5 cm out on exposed surface, middle of cavity and center of insulator).
- Thermocouple location on the facade surface required according to the standard (2 measurements: 5 cm out on exposed surface and middle of the cavity)
- ▲ Thermocouple within the ventilated cavity.
- Water cooled heat flux censor at the center of the secondary window.
- Plate thermometer at the surface of the facade, flush to the surface of the facade.

File No.: PGC10028A  
 Test date: 30-11-2023  
 Enclosure: 1.0  
 Danish Institute of Fire and security Technology  
 Sponsor: CPH Village Holding ApS  
 Subject: EU Facade test 4



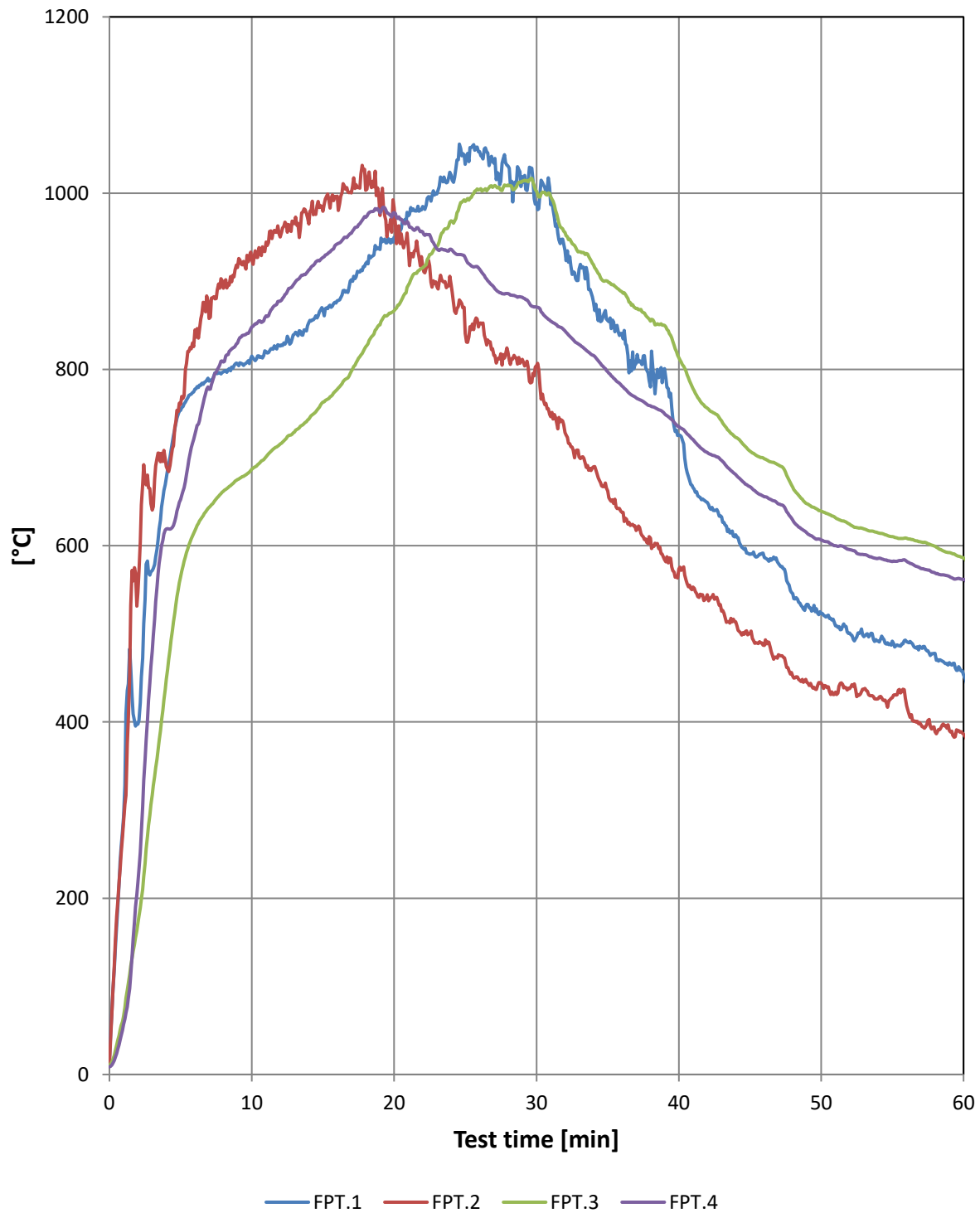
- Thermocouple location on the facade surface proposed by Guoxiang (5 cm from the wood panel surface)
- Thermocouple location on the facade surface required according to the standard (3 measurements: 5 cm out on exposed surface, middle of cavity and center of insulator)
- I.1.6 -> I.1.9 50mm ud igennem facade (Location 150+245+24+25+21+50 = 515mm)
- I.2.6 -> I.2.9 I midten af ventilationslag (Location 150+245+24+15 = 434mm)
- I.3.6 -> I.3.9 I midten af isolering (Location 150+125 = 275mm)
- Thermocouple location on the facade surface required according to the standard (2 measurements: 5 cm out on exposed surface and middle of the cavity)
- I.1.1 -> I.1.5 50mm ud igennem facade (Location 150+245+24+25+21+50 = 515mm)
- I.2.1 -> I.2.5 I midten af ventilationslag (Location 150+245+24+15 = 434mm)
- I.3.1 -> I.3.5 I midten af isolering (Location 150+125 = 275mm)
- Thermocouple location in the isolation (3 measurements: Just behind the windbracker, middle of isolation and on the back side of the isolation)
- ISO.1.1 -> I.1.3 Just behind the windbracker (Location 150+245 = 365mm)
- ISO.2.1 -> I.2.3 On the back side of the isolation (Location 150mm)
- ISO.3.1 -> I.3.3 Middle of isolation (Location 150+125 = 275mm)
- ▲ Thermocouple within the ventilated cavity.
- Water cooled heat flux sensor at the center of the secondary window
- Plate thermometer at the surface of the facade, flush to the surface of the facade

Combustion chamber is moved to 100mm away from the corner, to have the correct distance between the chamber and the front of the cladding in the wing.

Location of the thermocouple from the standard:  
It is decided that we use the same holes as earlier test - this means that the placement on the facade, measured from the center of the chamber, is located 10cm closer to the corner.

File No.: PGC10028A  
 Test date: 30-11-2023  
 Enclosure: 1.1  
 Danish Institute of Fire and security Technology  
 Sponsor: CPH Village Holding ApS  
 Subject: EU Facade test 4

## The temperature in the fire chamber during the test



FireChamberPlateTC.1 FireChamberPlateTC.2  
FireChamberTC.1 FirechamberTC.2



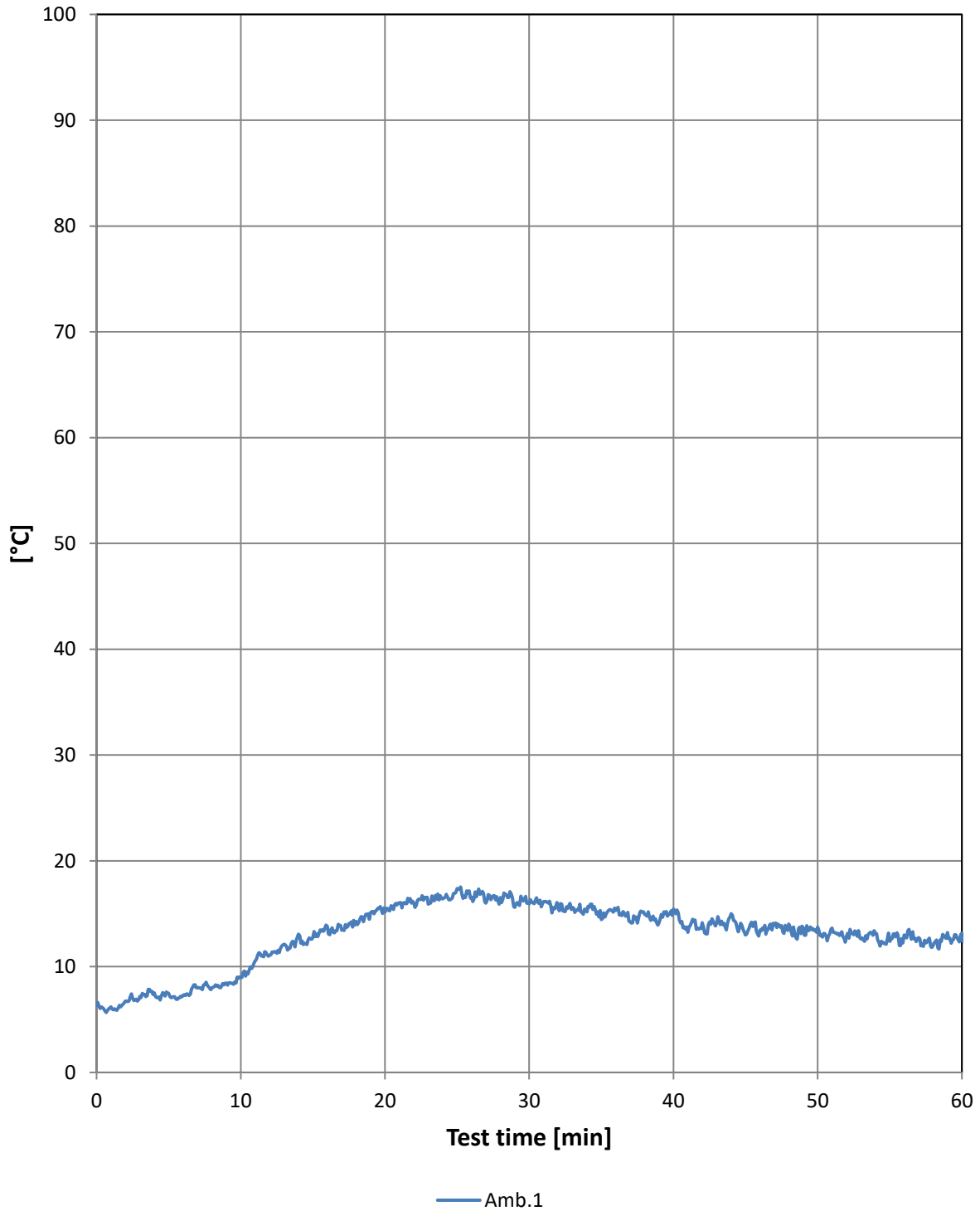
## The temperature in the fire chamber during the test

Min. / °C	FPT.1	FPT.2	FPT.3	FPT.4
0	18	11	10	9
2	397	547	172	218
4	677	690	449	619
6	778	845	617	727
8	797	892	662	808
10	815	925	687	848
12	827	950	715	877
14	853	965	744	913
15	867	980	763	927
16	878	997	777	942
18	920	1003	826	972
20	950	984	866	978
22	985	917	915	956
24	1020	896	969	936
26	1047	852	1004	914
28	1031	820	1009	886
30	990	804	1002	871
32	935	728	955	844
34	877	689	919	816
36	841	638	888	781
38	780	609	855	759
40	726	574	813	735
42	649	544	756	706
44	612	514	723	681
46	587	487	699	656
48	546	452	666	629
50	523	444	639	606
52	501	438	624	595
54	492	426	615	586
56	491	419	609	582
58	478	389	599	569
60	454	386	586	562

*FireChamberPlateTC.1 FireChamberPlateTC.2  
FireChamberTC.1 FirechamberTC.2*

## Ambient temperature

The ambient temperature in the laboratory during the test

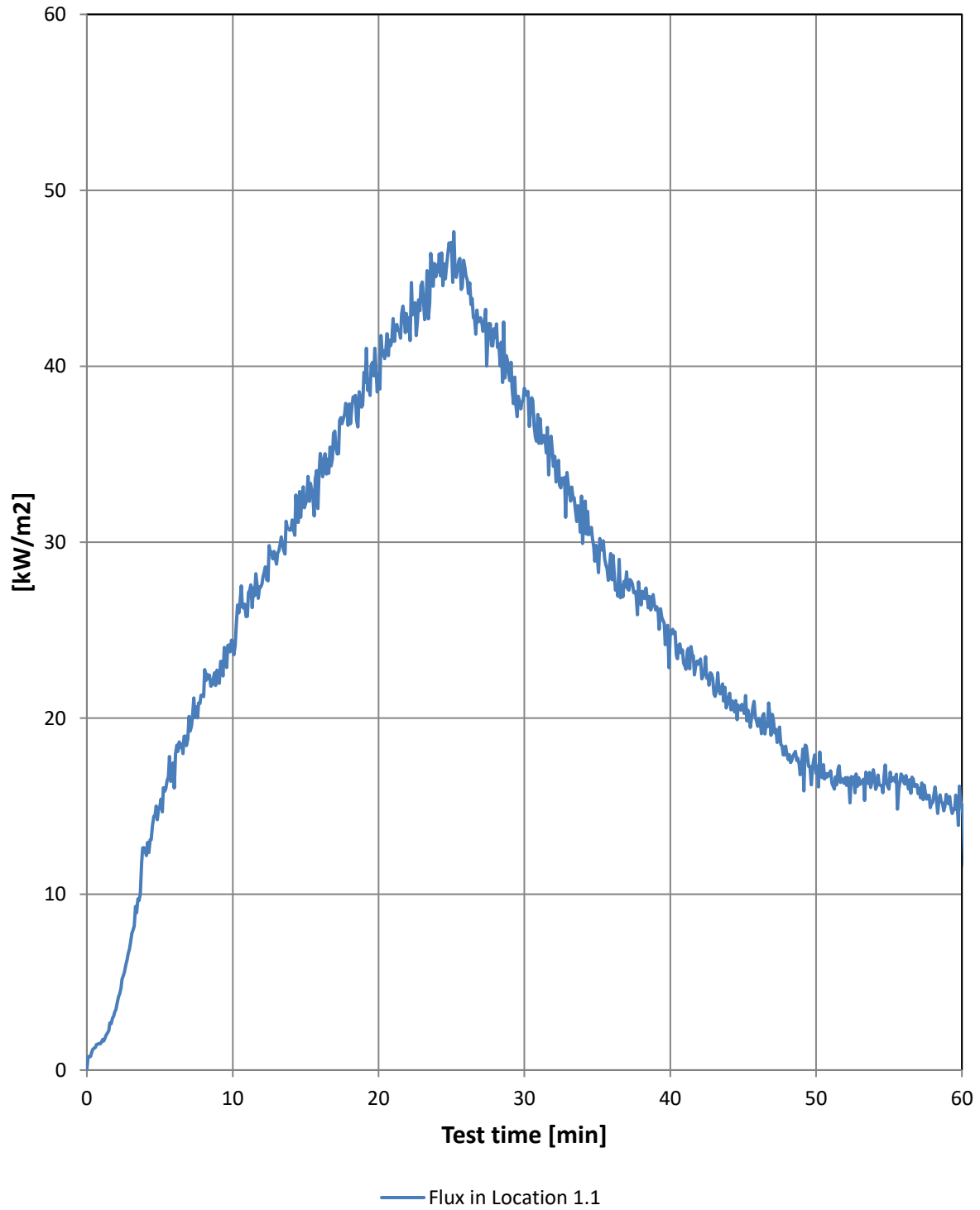


## Ambient temperature

*The ambient temperature in the laboratory during the test*

Min. / °C	Amb.1
0	6
2	7
4	8
6	7
8	8
10	9
12	11
14	13
15	13
16	14
18	14
20	15
22	16
24	16
26	17
28	17
30	16
32	16
34	15
36	15
38	15
40	15
42	14
44	15
46	13
48	14
50	14
52	13
54	13
56	13
58	12
60	13

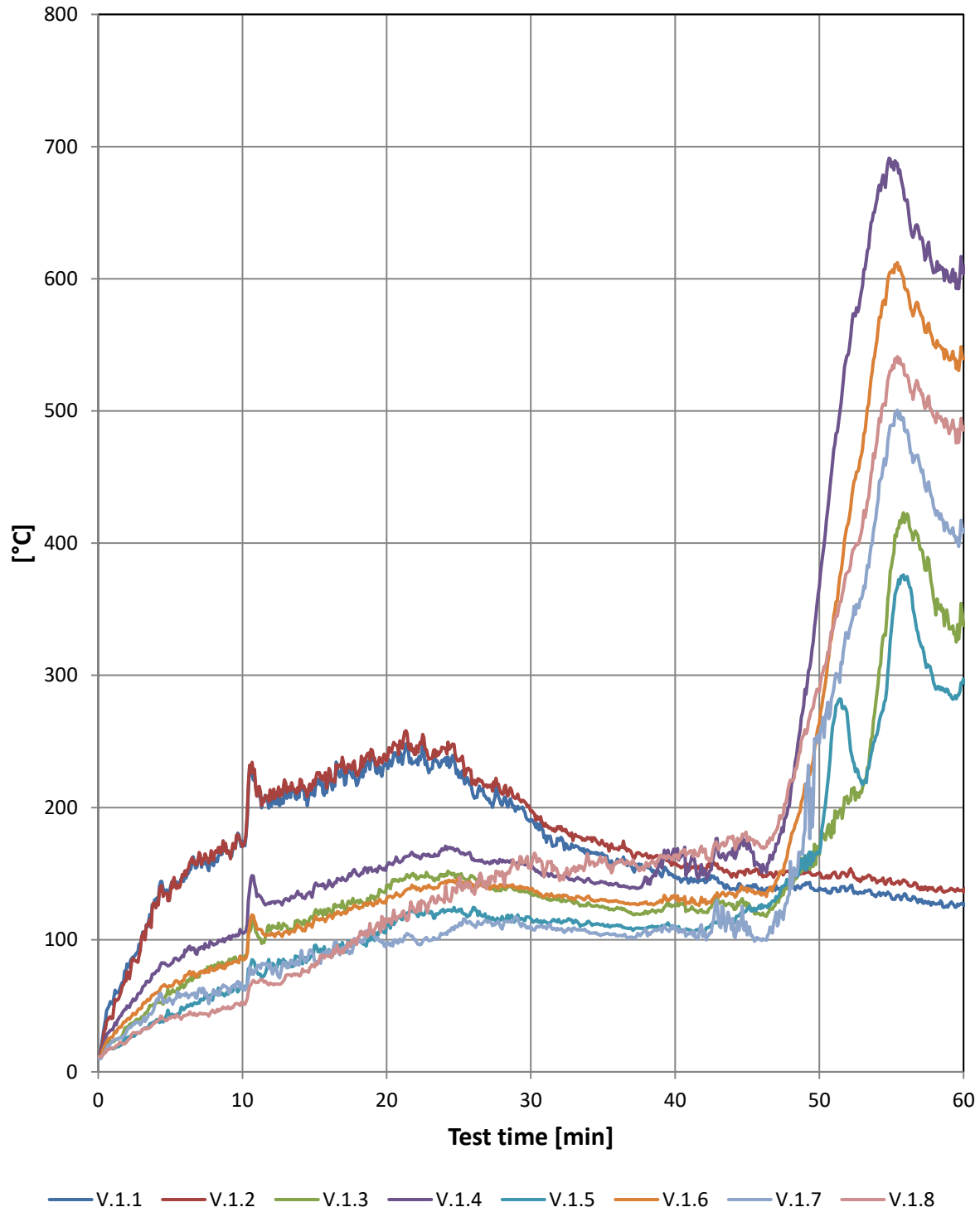
### Flux in Location 1



## Flux in Location 1

Min. / kW/m2	Flux in Location 1.1
0	0
2	3
4	12
6	16
8	21
10	24
12	28
14	31
15	32
16	35
18	38
20	40
22	42
24	46
26	45
28	42
30	39
32	34
34	30
36	28
38	26
40	25
42	23
44	21
46	20
48	18
50	17
52	17
54	17
56	16
58	15
60	15

## Temperature measured in the ventilated cavity



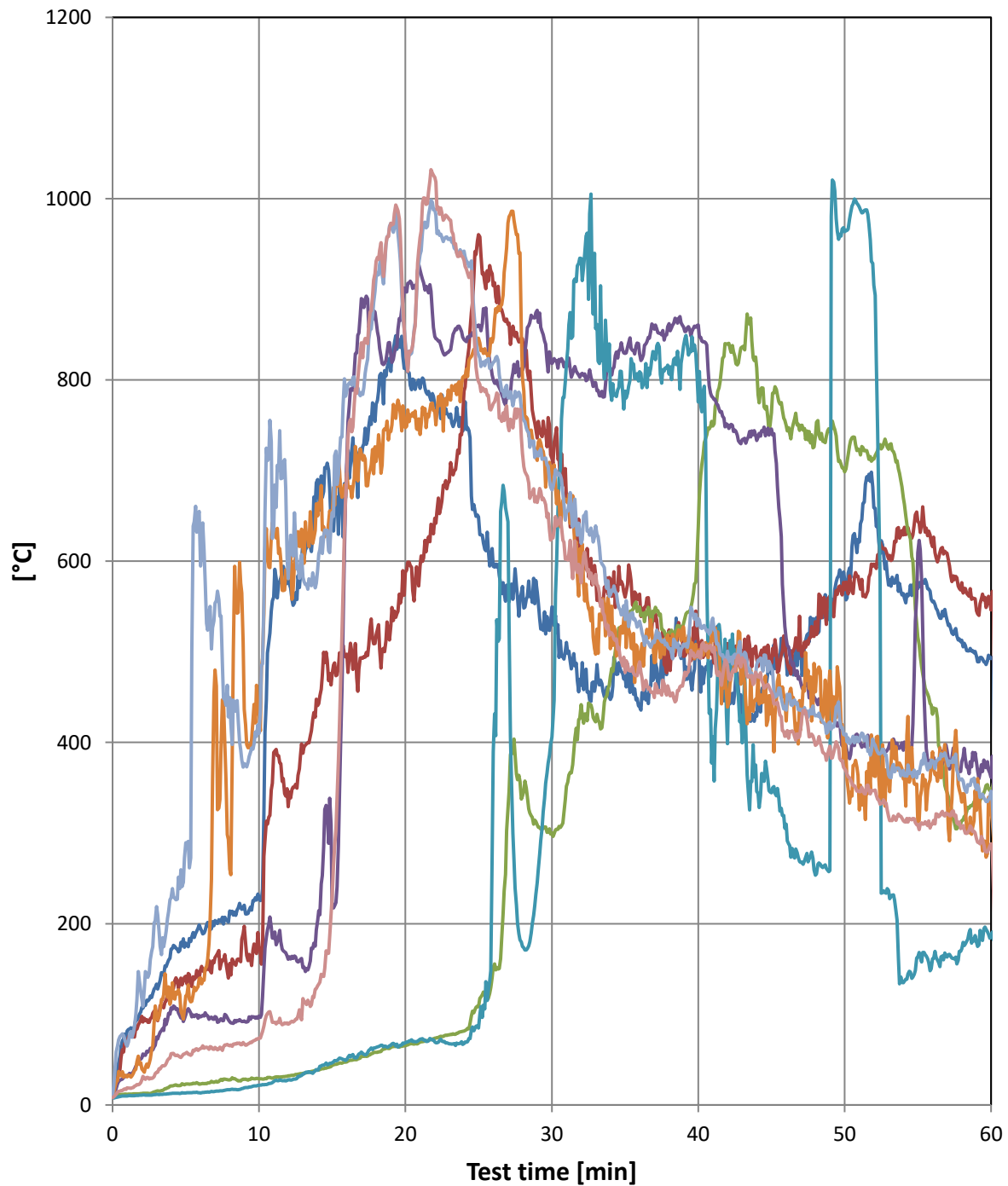
*Temperatures measured after 45 min are not valid, refer to Enclosure 14.0*

## Temperature measured in the ventilated cavity

Min. / °C	V.1.1	V.1.2	V.1.3	V.1.4	V.1.5	V.1.6	V.1.7	V.1.8
0	12	12	12	12	10	10	10	11
2	82	76	34	50	26	40	31	23
4	130	124	52	76	39	60	53	38
6	149	152	65	92	48	73	58	42
8	156	160	80	96	58	77	62	46
10	175	170	85	105	63	86	64	53
12	201	206	108	128	80	105	78	67
14	218	221	113	134	85	109	86	73
15	209	217	120	141	96	116	84	79
16	228	230	123	145	92	119	91	87
18	218	224	130	149	101	125	98	101
20	233	235	141	156	113	131	98	113
22	234	240	149	164	121	140	100	121
24	237	245	148	168	121	143	104	128
26	209	220	148	161	124	142	111	138
28	201	210	139	159	118	141	108	152
30	191	197	136	155	116	138	110	153
32	175	184	130	148	114	134	108	145
34	167	177	128	146	114	133	106	161
36	161	169	124	142	111	129	103	159
38	155	165	121	147	109	129	107	159
40	148	158	126	166	110	133	109	163
42	146	154	121	153	106	130	107	167
44	139	150	127	169	113	135	116	178
46	139	150	119	151	127	134	99	169
48	142	150	142	209	141	175	159	221
50	139	151	164	367	165	264	248	288
52	139	150	203	543	262	415	328	378
54	134	143	286	660	255	553	427	477
56	134	144	419	659	373	592	484	527
58	127	137	353	605	292	550	425	495
60	126	136	338	604	297	539	410	486

*Temperatures measured after 45 min are not valid, refer to Enclosure 14.0*

## Temperature measured in the ventilated cavity



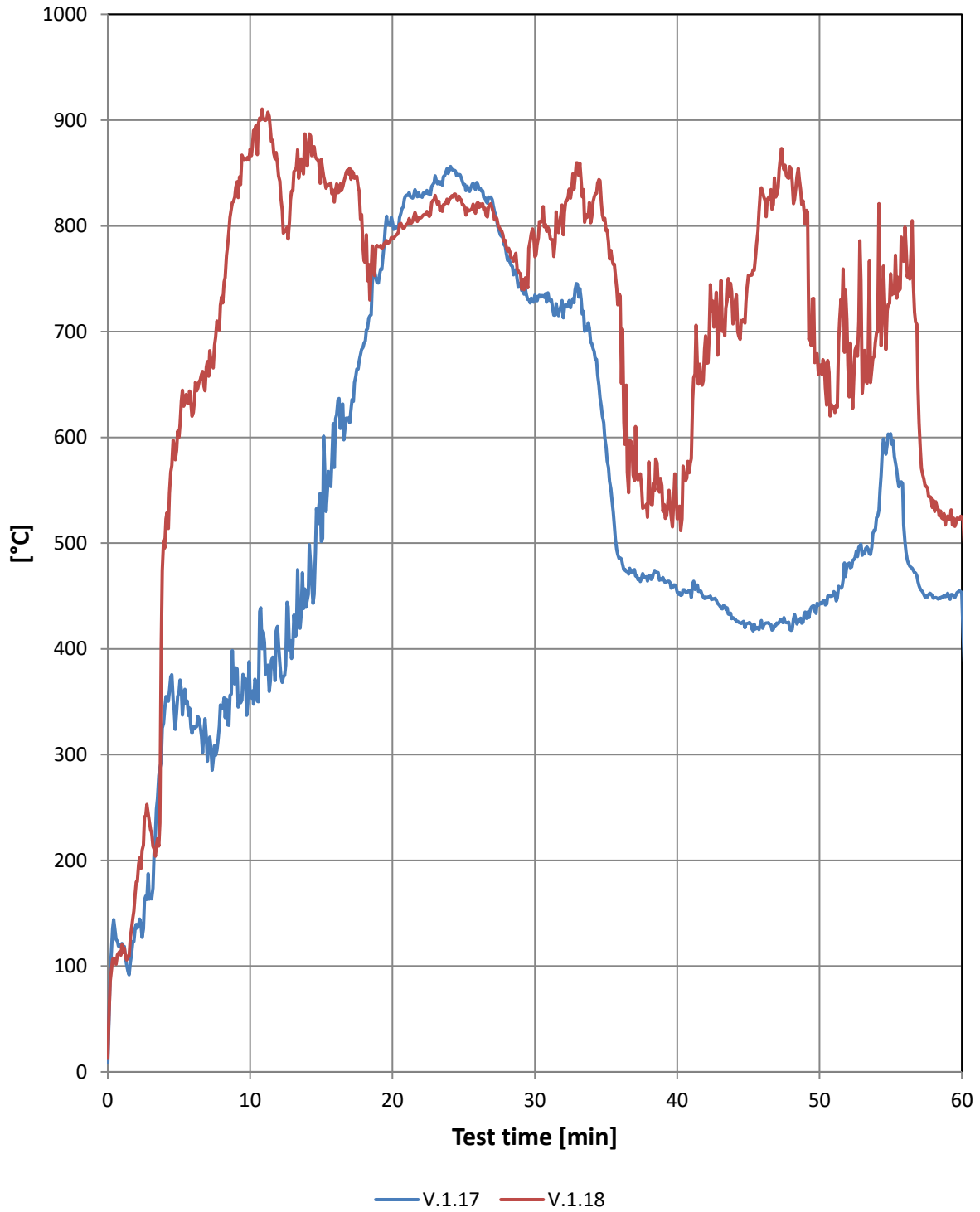
— V.1.9 — V.1.10 — V.1.11 — V.1.12 — V.1.13 — V.1.14 — V.1.15 — V.1.16



## Temperature measured in the ventilated cavity

Min. / °C	V.1.9	V.1.10	V.1.11	V.1.12	V.1.13	V.1.14	V.1.15	V.1.16
0	10	11	11	11	8	10	10	8
2	108	98	13	52	11	40	117	28
4	172	122	21	107	13	117	229	57
6	195	149	23	97	13	140	595	62
8	214	156	28	92	17	260	450	65
10	228	175	29	98	22	432	410	74
12	581	329	32	161	28	581	581	89
14	690	441	39	203	38	650	591	132
15	667	475	44	218	47	651	654	229
16	706	497	48	713	50	697	788	698
18	773	518	58	865	64	710	913	931
20	818	588	65	900	69	747	842	838
22	772	647	74	848	69	765	988	1024
24	756	788	81	845	68	804	942	932
26	594	904	152	800	390	846	819	774
28	572	845	341	810	175	802	759	719
30	550	713	300	818	406	705	679	626
32	463	621	442	806	934	588	620	576
34	448	580	473	811	789	503	563	521
36	439	564	549	829	809	478	534	489
38	497	524	522	862	806	507	504	457
40	499	511	638	860	776	498	537	500
42	465	509	840	751	399	439	501	485
44	429	493	813	733	346	446	486	475
46	493	496	750	514	310	424	436	407
48	534	533	738	448	254	456	429	397
50	580	568	699	401	963	405	408	371
52	659	597	713	386	905	363	399	347
54	564	629	670	391	135	360	369	314
56	555	616	431	377	161	390	380	310
58	513	576	314	379	172	334	360	306
60	493	546	349	362	186	325	346	288

### Temperature measured in the ventilated cavity



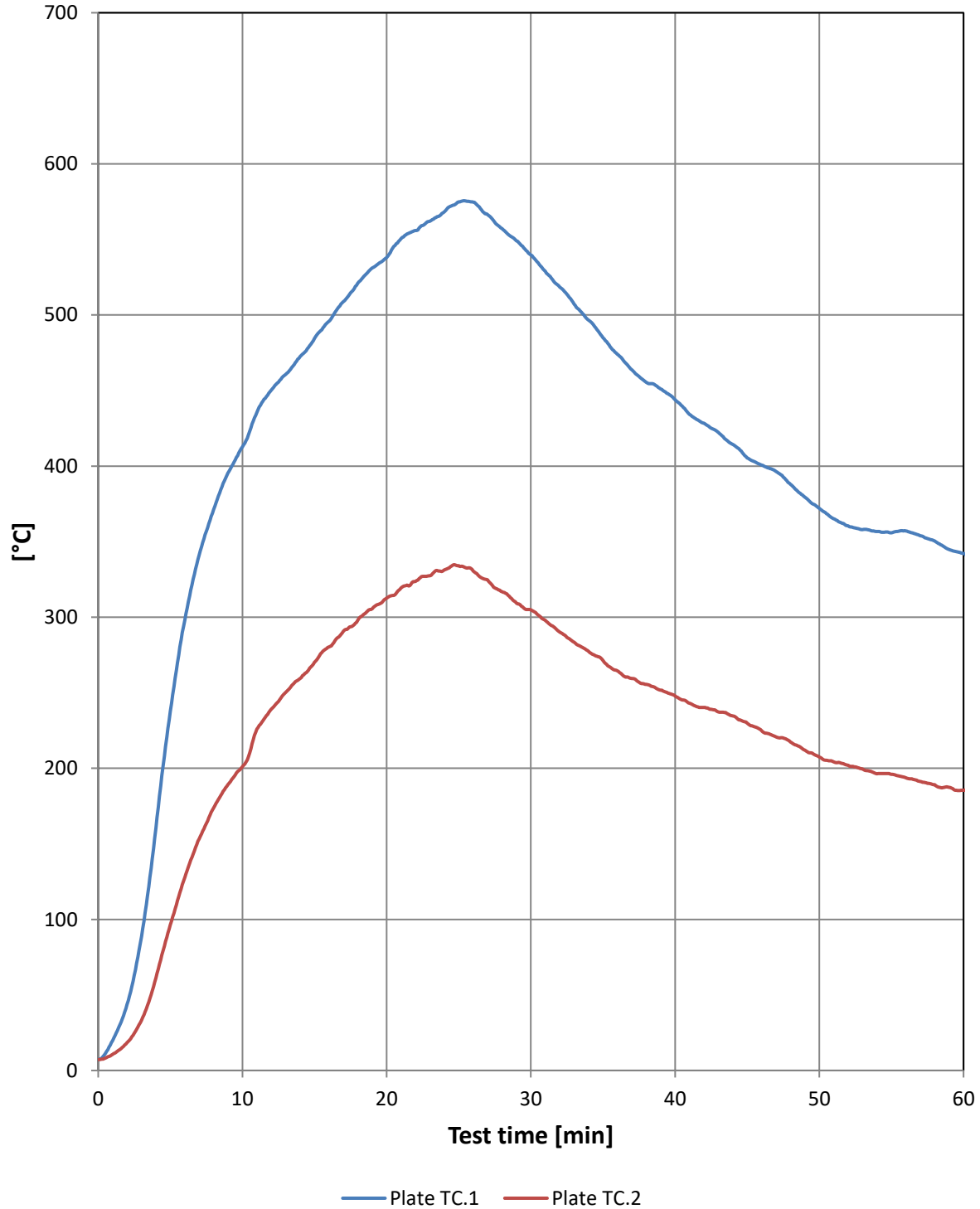
## Temperature measured in the ventilated cavity

Min. / °C	V.1.17	V.1.18
0	9	13
2	139	180
4	343	495
6	327	624
8	344	733
10	355	873
12	404	847
14	446	857
15	502	863
16	618	834
18	689	767
20	804	789
22	828	808
24	853	825
26	839	822
28	774	780
30	735	771
32	713	792
34	689	808
36	486	734
38	469	577
40	454	523
42	449	696
44	428	711
46	419	831
48	417	854
50	442	668
52	480	668
54	524	699
56	501	799
58	448	540
60	453	525

## Plate thermocouple

Plate TC.1 Location 1

Plate TC.2 Location 2



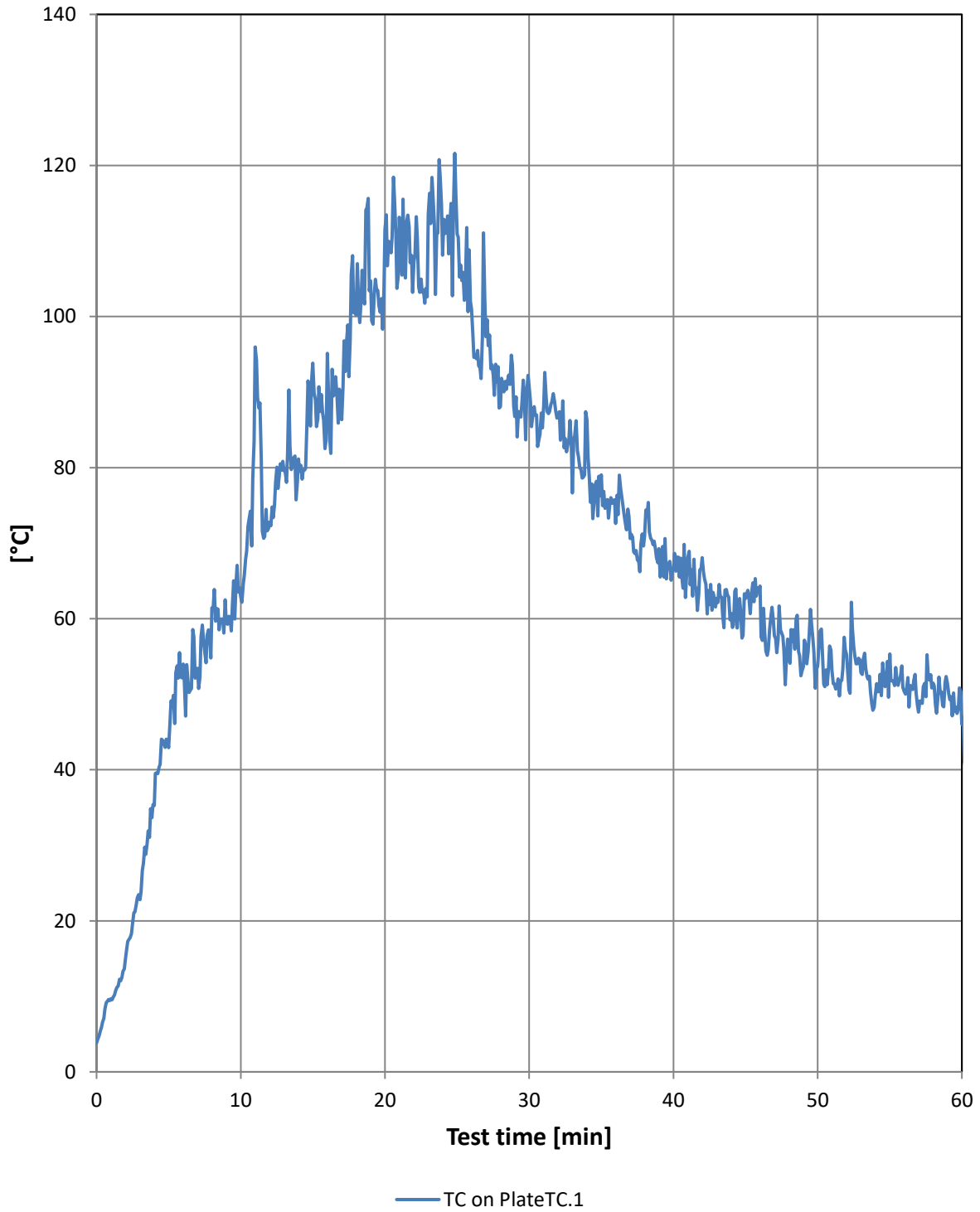
## Plate thermocouple

*Plate TC.1 Location 1*

*Plate TC.2 Location 2*

Min. / °C	Plate TC.1	Plate TC.2
0	7	7
2	44	18
4	161	61
6	298	128
8	371	174
10	413	201
12	450	239
14	472	259
15	484	270
16	496	280
18	521	298
20	538	313
22	556	324
24	568	331
26	575	331
28	557	317
30	540	305
32	518	290
34	497	277
36	474	264
38	455	255
40	444	248
42	428	240
44	414	235
46	401	225
48	388	217
50	372	207
52	360	202
54	357	196
56	357	194
58	350	189
60	342	186

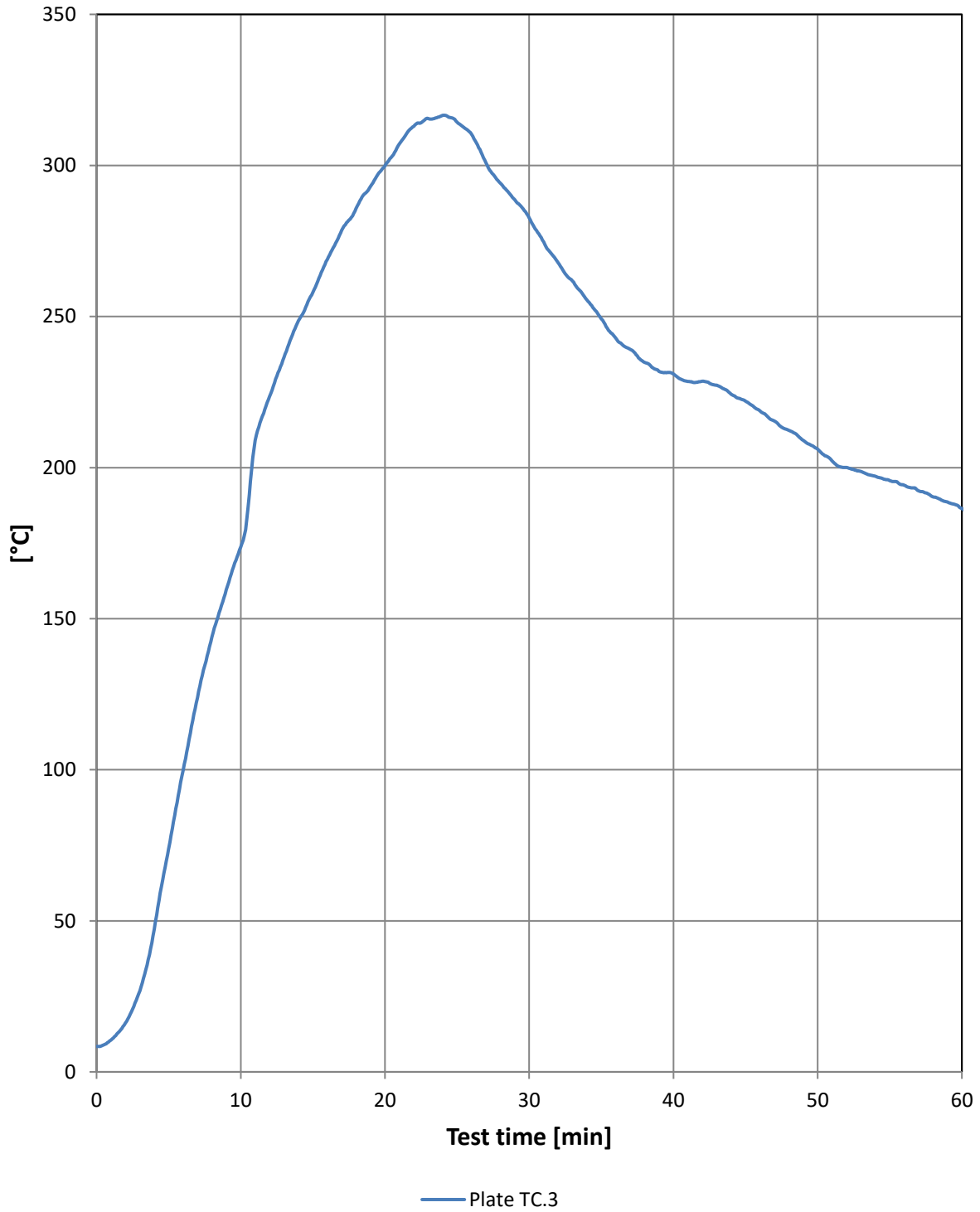
### Location 1 - TC on PlateTC



**Location 1 - TC on PlateTC**

Min. / °C	TC on PlateTC.1
0	4
2	15
4	35
6	54
8	61
10	63
12	73
14	81
15	94
16	95
18	100
20	112
22	107
24	108
26	101
28	88
30	91
32	87
34	86
36	73
38	71
40	67
42	68
44	61
46	64
48	55
50	54
52	55
54	50
56	50
58	51
60	46

**Location 2.5 m from facade 4.5 m height.**





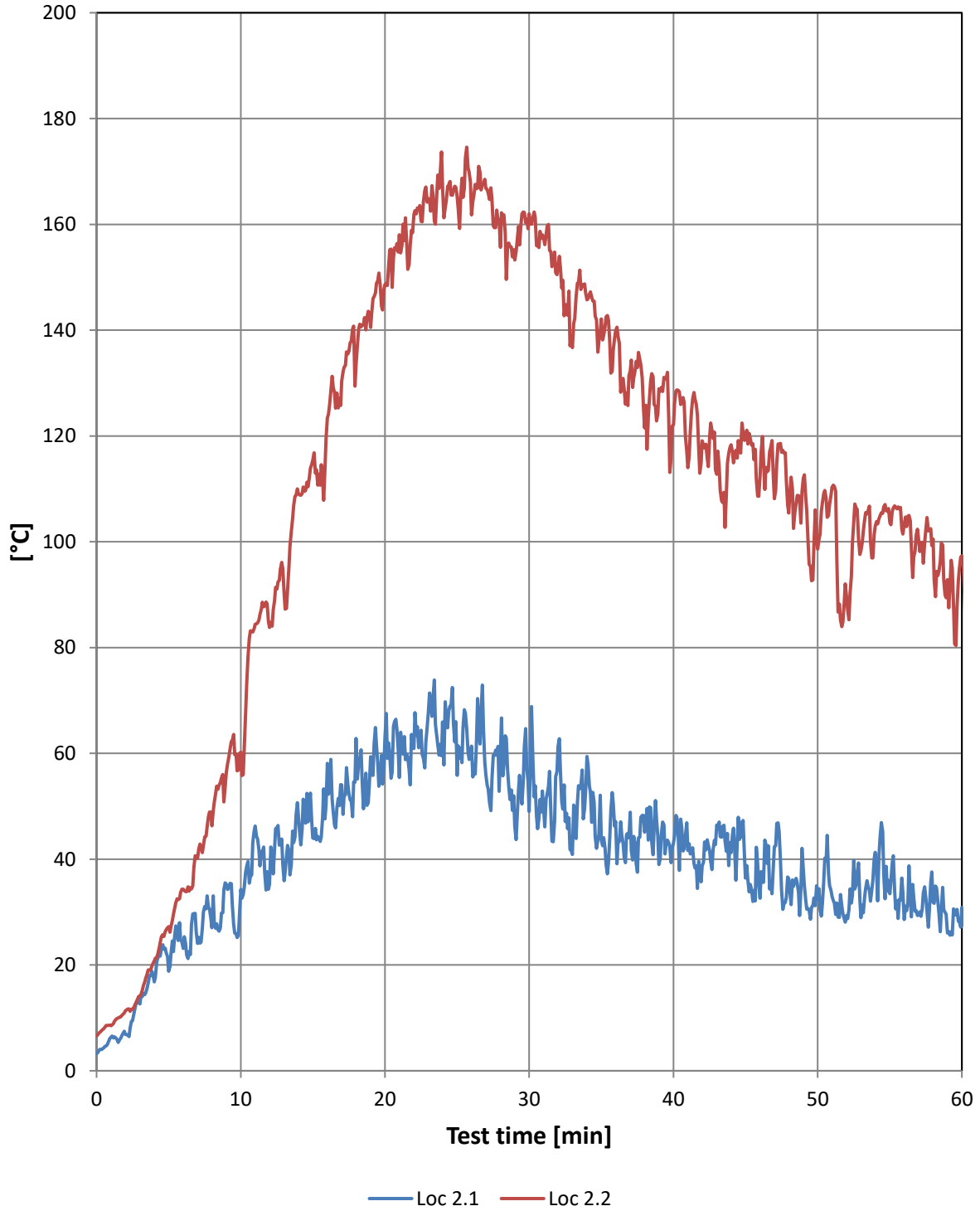
**Location 2. 5 m from facade 4.5 m height.**

Min. / °C	Plate TC.3
0	8
2	16
4	47
6	100
8	144
10	174
12	223
14	249
15	258
16	269
18	286
20	300
22	313
24	317
26	310
28	294
30	283
32	268
34	255
36	243
38	235
40	231
42	229
44	224
46	219
48	212
50	206
52	200
54	197
56	194
58	190
60	186

## Thermocouple

TC.1 Location 1

TC.2 Location 2



## Thermocouple

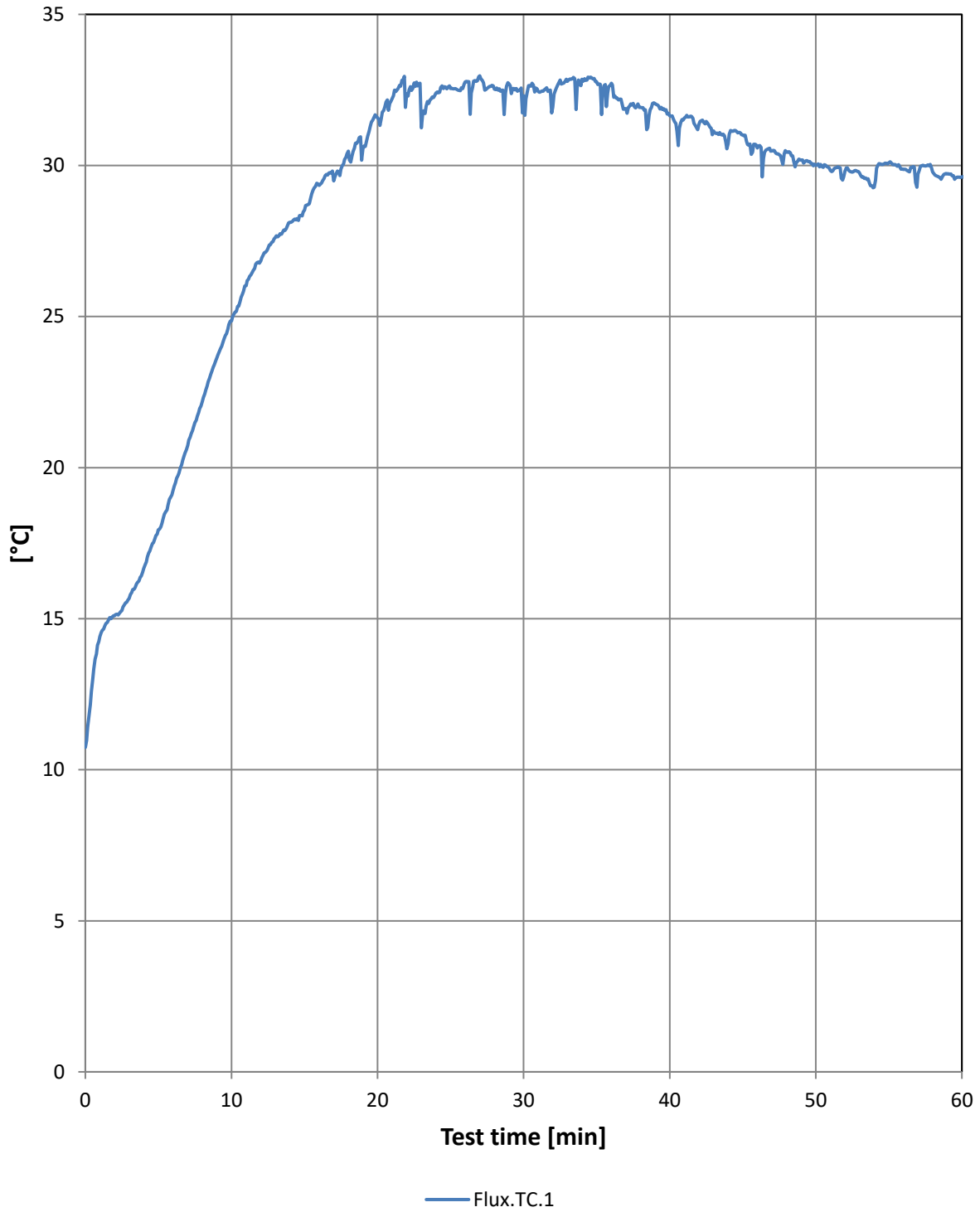
TC.1 Location 1

TC.2 Location 2

Min. / °C	Loc 2.1	Loc 2.2
0	3	7
2	7	11
4	17	21
6	23	34
8	27	46
10	34	60
12	35	84
14	48	109
15	44	115
16	58	123
18	63	133
20	63	149
22	61	162
24	66	167
26	61	162
28	60	156
30	49	162
32	61	152
34	59	146
36	47	140
38	45	122
40	43	122
42	39	119
44	41	118
46	33	112
48	36	105
50	32	99
52	29	90
54	41	103
56	29	103
58	32	101
60	31	97

## Flux TC

*Flux.TC.2 located 3 m from fire chamber*

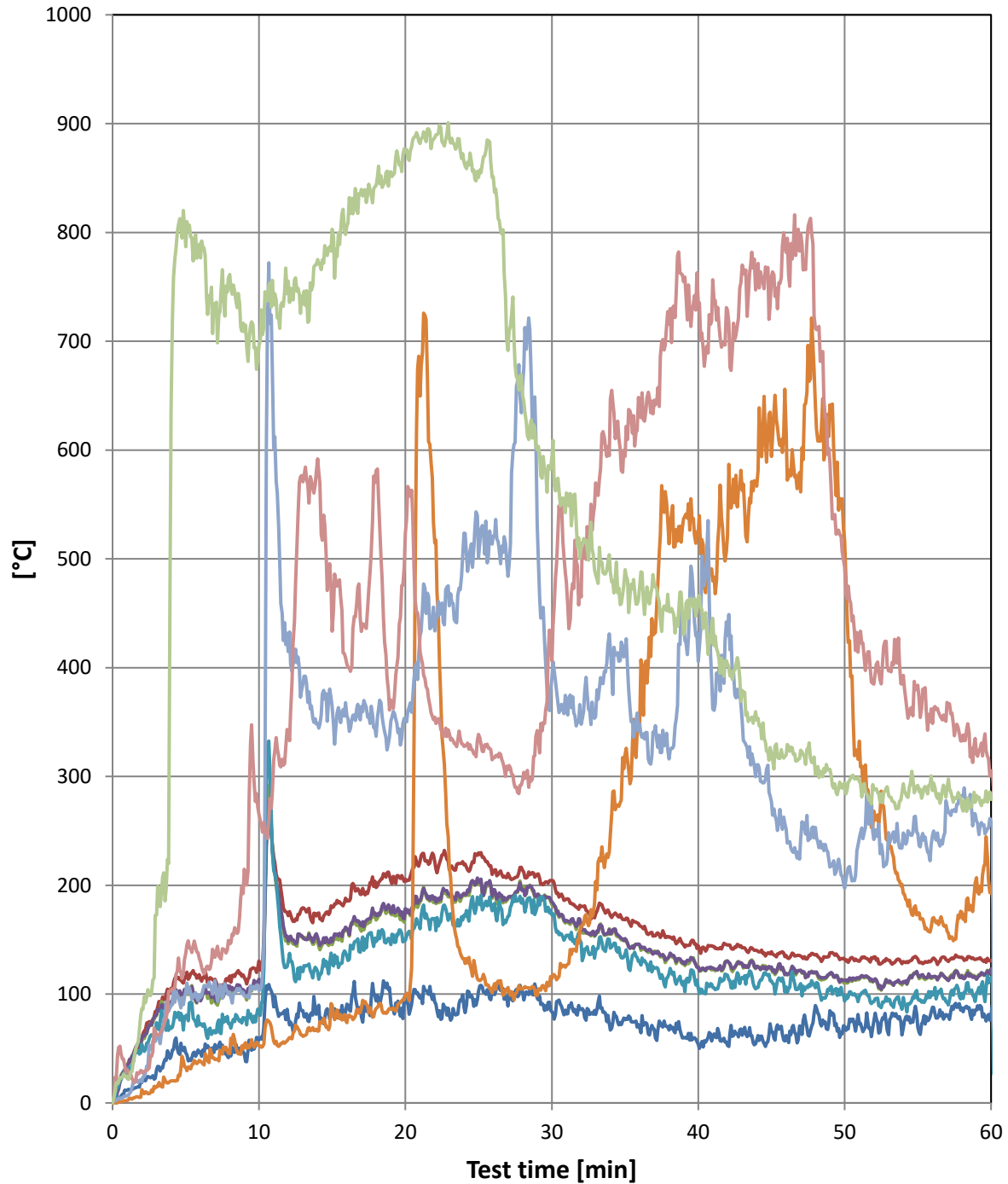


## Flux TC

*Flux.TC.2 located 3 m from fire chamber*

Min. / °C	Flux.TC.1
0	11
2	15
4	17
6	19
8	22
10	25
12	27
14	28
15	29
16	29
18	30
20	32
22	32
24	32
26	33
28	33
30	32
32	32
34	33
36	33
38	32
40	32
42	31
44	31
46	31
48	30
50	30
52	30
54	29
56	30
58	30
60	30

## Temperature rise measured 50mm from the facade

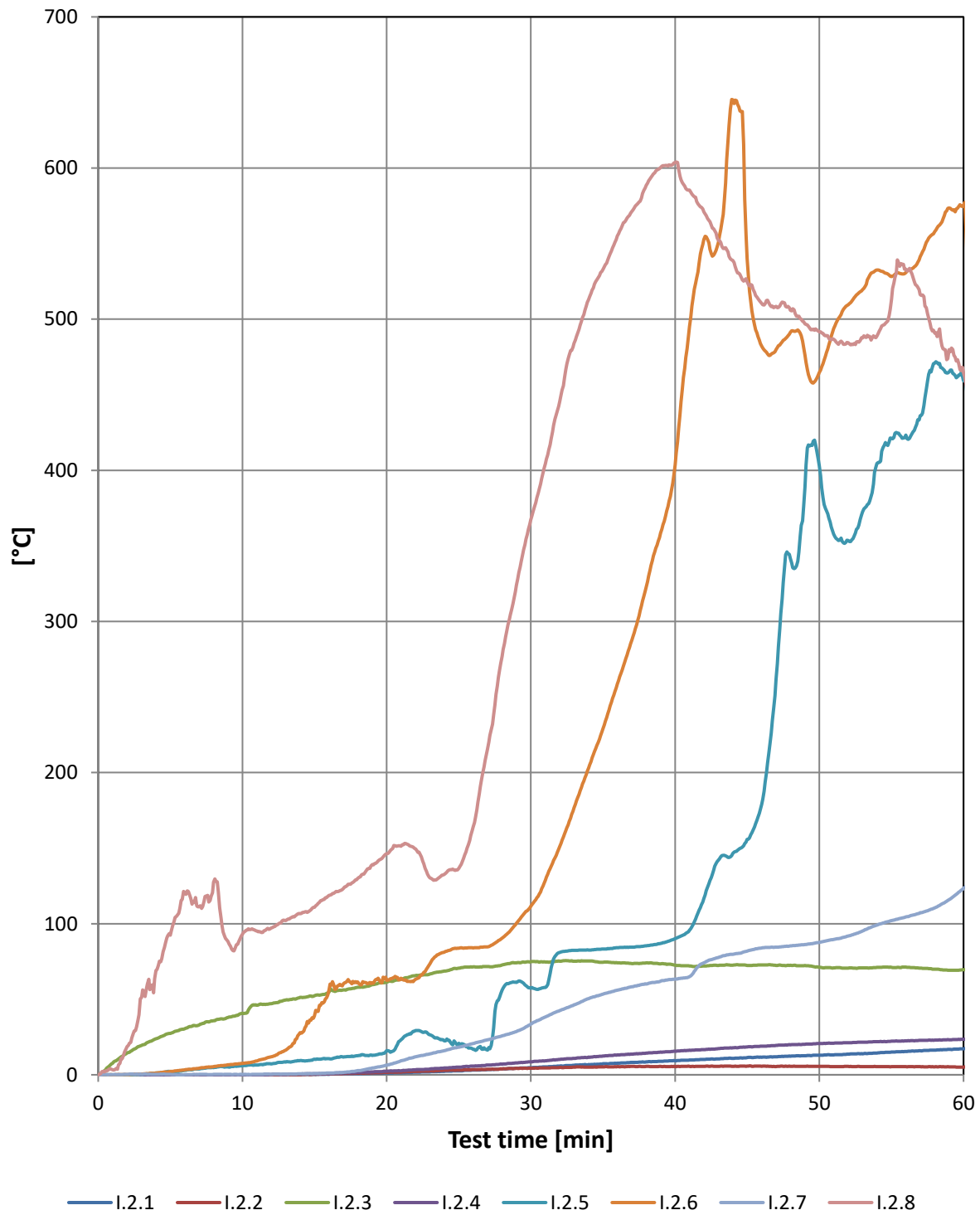


I.1.1 I.1.2 I.1.3 I.1.4 I.1.5 I.1.6 I.1.7 I.1.8 I.1.9

## Temperature rise measured 50mm from the facade

Min. / °C	I.1.1	I.1.2	I.1.3	I.1.4	I.1.5	I.1.6	I.1.7	I.1.8	I.1.9
0	0	0	0	0	0	0	0	0	0
2	19	58	58	60	54	12	20	29	87
4	43	105	93	93	68	20	89	104	637
6	47	114	95	94	73	38	97	130	777
8	48	117	106	107	73	45	102	146	761
10	58	131	112	114	83	52	103	265	696
12	79	172	146	149	130	59	415	342	755
14	87	174	148	152	121	66	349	592	775
15	87	180	146	148	128	90	364	434	803
16	91	185	159	160	135	74	356	403	806
18	94	198	168	172	148	87	337	581	843
20	98	206	177	179	149	99	352	523	874
22	92	221	187	189	170	515	434	355	887
24	88	219	192	193	173	132	524	328	865
26	100	212	195	196	182	106	521	317	851
28	103	214	199	195	188	105	658	296	651
30	83	204	182	185	173	114	391	406	594
32	86	180	162	164	147	162	348	465	510
34	67	172	155	156	142	247	417	647	487
36	69	163	145	145	130	343	349	635	474
38	67	152	134	135	119	514	316	716	452
40	54	145	126	125	106	525	406	735	464
42	53	145	130	130	117	522	430	729	404
44	58	140	126	126	106	567	311	761	352
46	62	135	119	119	107	615	251	782	320
48	89	136	119	120	106	641	253	712	302
50	70	132	110	113	94	517	197	493	294
52	75	134	112	113	93	268	242	385	288
54	69	130	111	112	97	193	248	393	293
56	88	132	115	116	99	170	246	349	287
58	87	134	117	117	101	175	282	333	272
60	80	131	123	123	115	195	258	305	279

## Temperature rise measured in ventilation layer

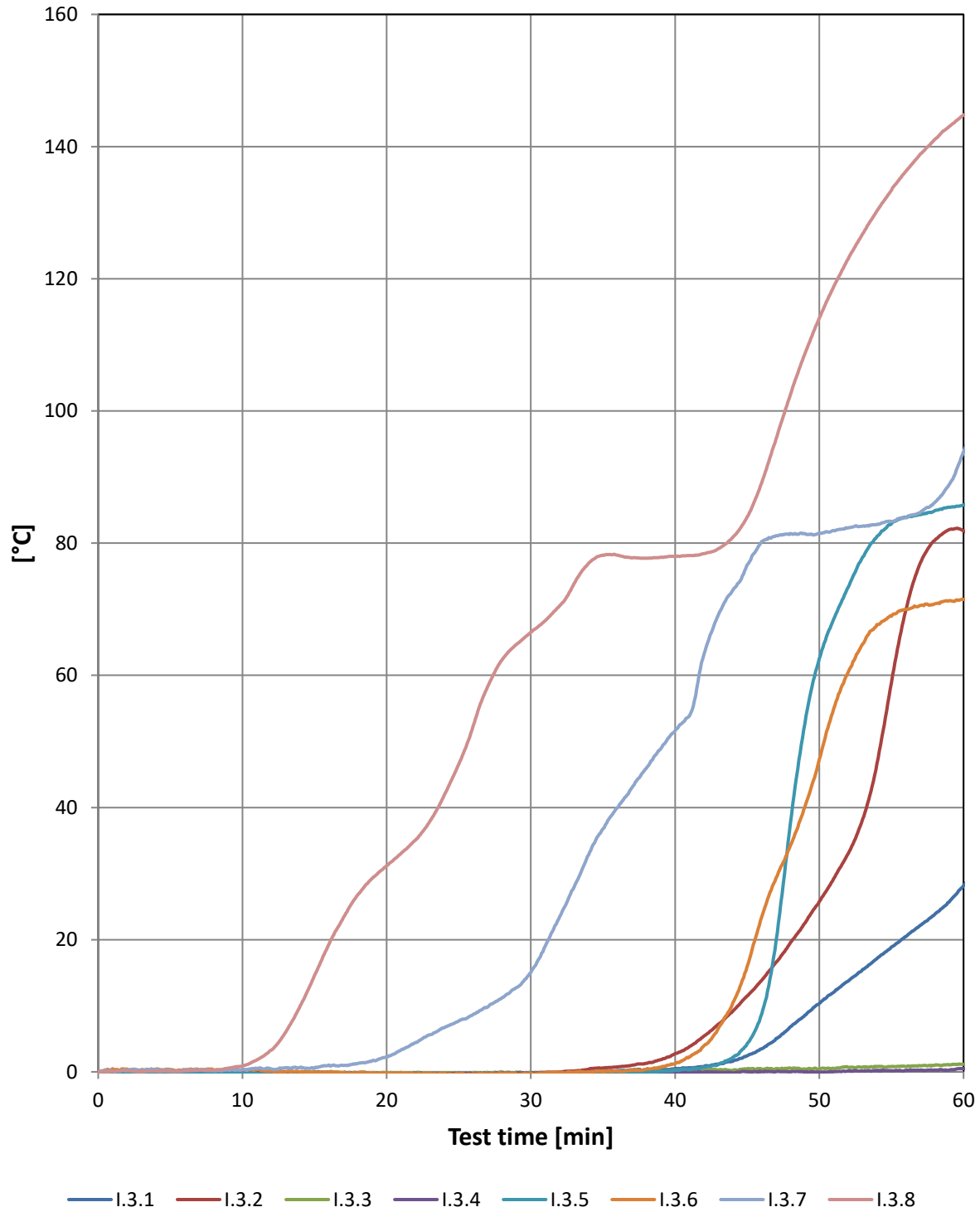




## Temperature rise measured in ventilation layer

Min. / °C	I.2.1	I.2.2	I.2.3	I.2.4	I.2.5	I.2.6	I.2.7	I.2.8
0	0	0	0	0	0	0	0	0
2	0	0	14	0	0	0	0	19
4	0	-1	24	0	1	1	0	69
6	0	-1	31	0	3	3	0	121
8	0	-1	36	0	5	5	0	128
10	0	-1	41	0	6	8	0	93
12	0	0	47	0	7	12	0	97
14	0	0	51	0	9	28	1	107
15	0	0	52	1	10	39	1	111
16	0	1	55	1	11	56	1	119
18	1	1	58	2	13	61	3	130
20	1	2	61	2	16	63	6	146
22	2	2	66	3	29	63	12	149
24	2	3	69	5	22	81	16	133
26	3	3	71	6	17	84	21	164
28	4	4	73	7	56	90	26	277
30	5	4	75	9	57	112	33	367
32	6	5	75	10	81	151	42	445
34	7	5	75	12	83	203	50	513
36	8	5	74	13	84	258	56	555
38	9	6	74	14	85	323	60	589
40	9	5	73	16	90	404	63	604
42	10	6	72	17	117	553	74	571
44	11	6	73	18	146	645	80	539
46	12	6	73	19	179	482	84	510
48	12	6	72	20	342	491	85	506
50	13	6	71	21	403	465	88	492
52	14	6	71	21	354	509	92	484
54	14	5	71	22	404	533	99	489
56	15	5	71	22	423	531	104	533
58	16	5	70	23	471	558	110	491
60	17	5	70	24	459	575	123	465

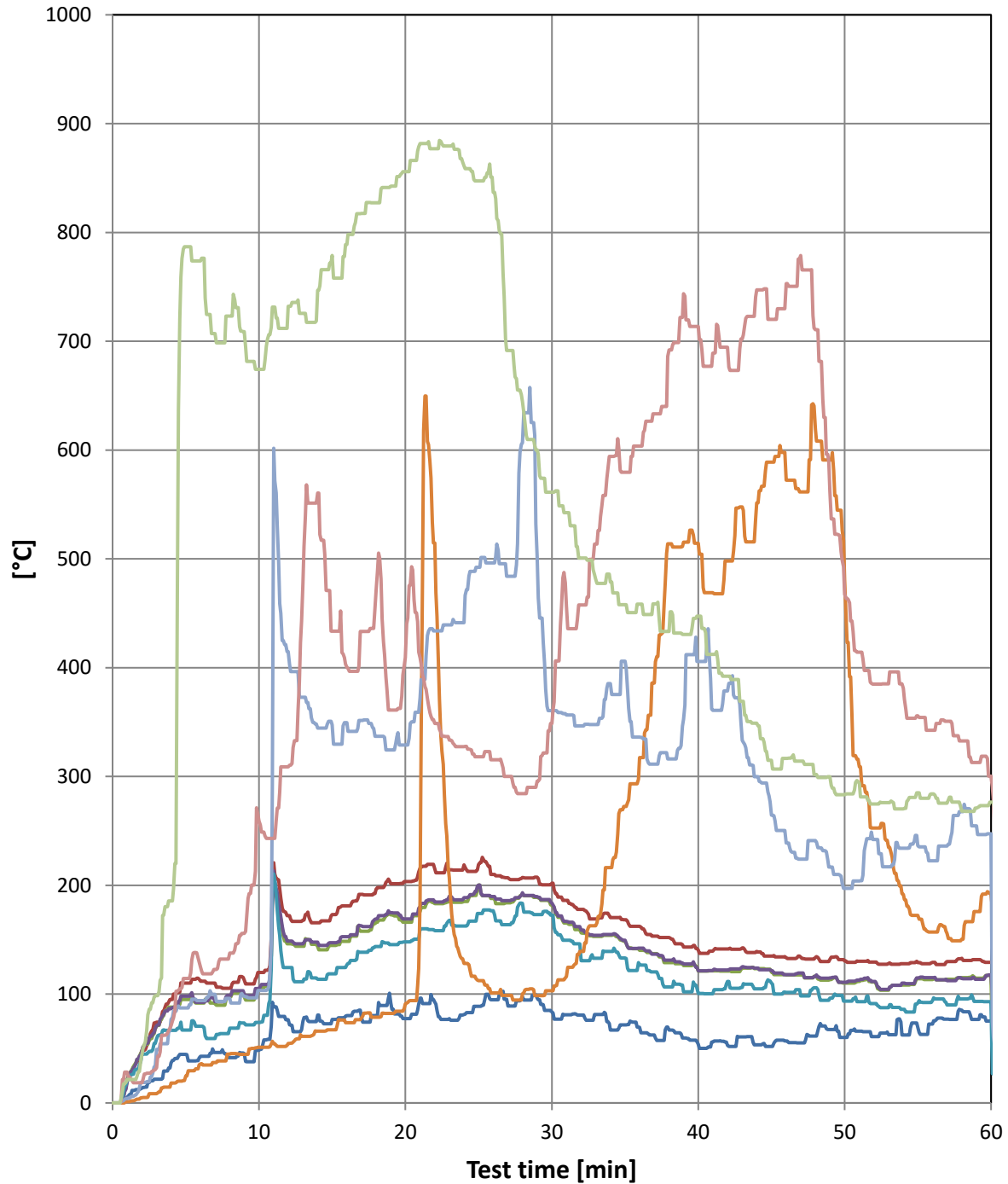
## Temperature rise measured in middle of insulation



## Temperature rise measured in middle of insulation

Min. / °C	I.3.1	I.3.2	I.3.3	I.3.4	I.3.5	I.3.6	I.3.7	I.3.8
0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	1	10
15	0	0	0	0	0	0	1	15
16	0	0	0	0	-1	0	1	19
18	0	0	0	0	-1	0	1	27
20	0	0	0	0	-1	0	2	31
22	-1	-1	0	0	-1	0	4	35
24	-1	0	0	0	-1	0	7	42
26	-1	0	0	0	-1	0	9	52
28	-1	0	0	0	-1	0	11	62
30	0	0	0	0	0	0	15	67
32	0	0	0	0	0	0	23	71
34	0	0	0	0	0	0	33	77
36	0	1	0	0	0	0	40	78
38	0	1	0	0	0	0	46	78
40	0	3	0	0	0	1	52	78
42	1	5	0	0	1	4	63	78
44	2	9	0	0	2	10	73	81
46	3	14	0	0	9	23	80	89
48	7	20	1	0	38	34	81	102
50	10	26	0	0	63	47	82	114
52	14	33	1	0	73	61	82	123
54	17	47	1	0	81	68	83	130
56	20	70	1	0	84	70	84	136
58	24	80	1	0	85	71	86	141
60	28	82	1	0	86	71	94	145

## Temperature rise measured according to the standard - 50 mm from facade. Minimum of 30 sec



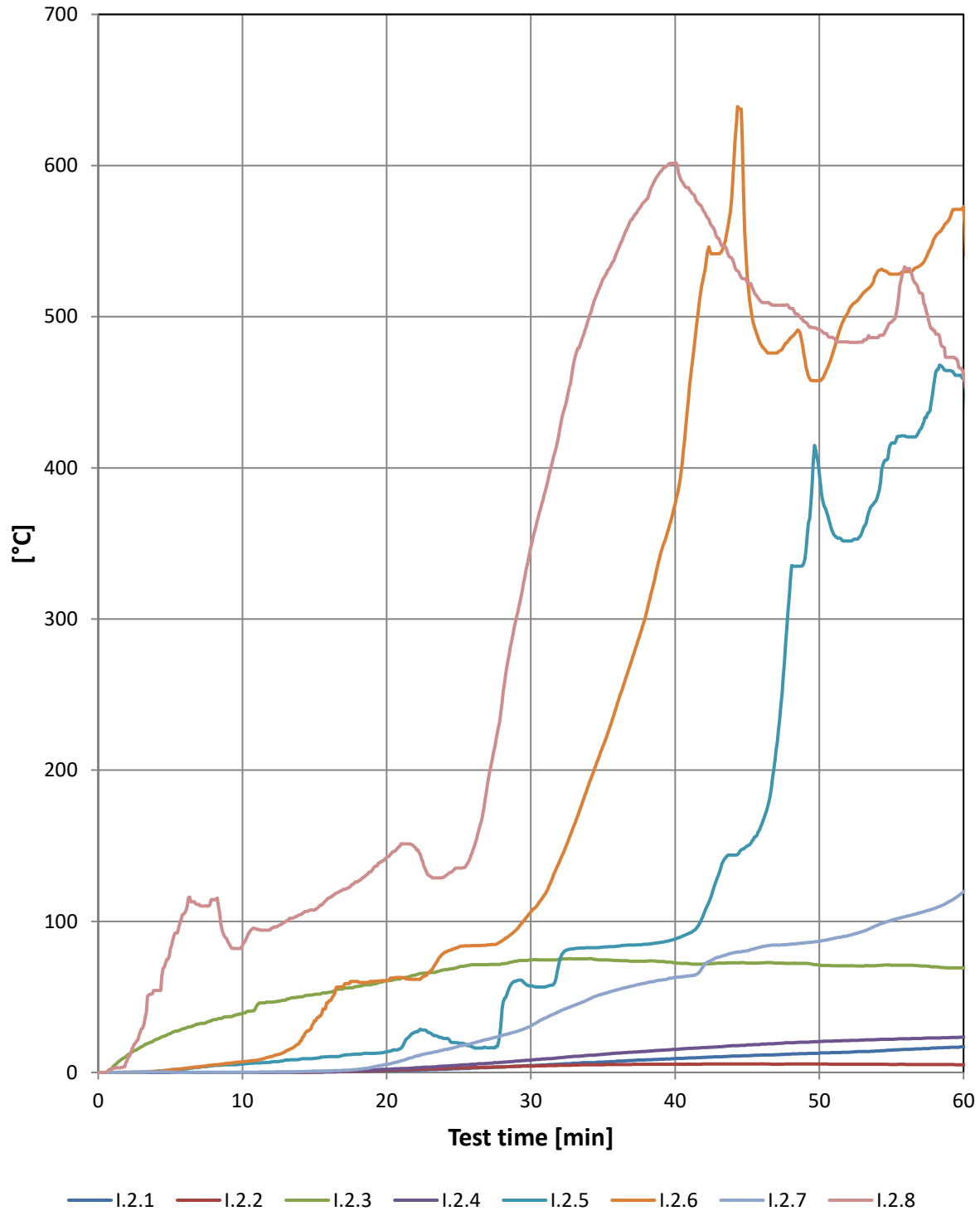
I.1.1 I.1.2 I.1.3 I.1.4 I.1.5 I.1.6 I.1.7 I.1.8 I.1.9

### Temperature rise measured according to the standard - 50 mm from facade. Minimum of 30 sec

Min. / °C	I.1.1	I.1.2	I.1.3	I.1.4	I.1.5	I.1.6	I.1.7	I.1.8	I.1.9	I.1.Max
0	0	0	0	0	0	0	0	0	0	0
2	14	48	47	47	44	5	19	19	44	48
4	37	95	88	86	67	18	77	71	186	186
6	43	112	92	93	71	36	94	125	774	774
8	42	105	98	99	69	45	96	138	723	723
10	48	120	103	105	74	51	103	259	674	674
12	77	172	146	149	124	55	415	309	732	732
14	81	166	144	148	114	66	344	560	747	747
15	77	173	145	147	119	67	348	434	779	779
16	80	181	149	153	127	74	350	401	789	789
18	80	196	166	169	144	79	337	471	827	827
20	78	203	166	169	148	91	329	409	856	856
22	92	215	183	185	158	515	434	349	877	877
24	81	219	185	189	162	128	441	328	861	861
26	95	210	188	190	177	101	496	315	837	837
28	98	207	192	193	183	100	607	284	645	645
30	83	202	182	184	173	103	360	349	561	561
32	81	178	156	159	131	139	346	458	501	501
34	67	170	154	155	139	216	385	594	479	594
36	69	162	140	142	127	317	336	604	458	604
38	67	152	129	131	107	514	316	692	433	692
40	54	140	121	121	101	514	406	714	447	714
42	53	142	121	122	112	498	378	695	392	695
44	53	139	123	124	105	551	300	747	349	747
46	57	133	118	118	102	572	239	753	317	753
48	61	134	116	116	106	619	241	711	302	711
50	60	130	110	111	94	481	197	467	283	481
52	61	129	111	112	91	253	242	385	275	385
54	63	128	108	110	86	192	234	381	270	381
56	72	129	113	115	94	157	223	342	284	342
58	85	133	115	114	96	150	268	333	268	333
60	75	129	117	118	93	191	247	300	276	300

Failure [min]	-	-	-	-	-	21.17	10.92	13.00	4.42	4.42
Failure °C	500	500	500	500	500	500	500	500	500	500

## Temperature rise measured according to the standard - ventilation layer. Minimum of 30 sec

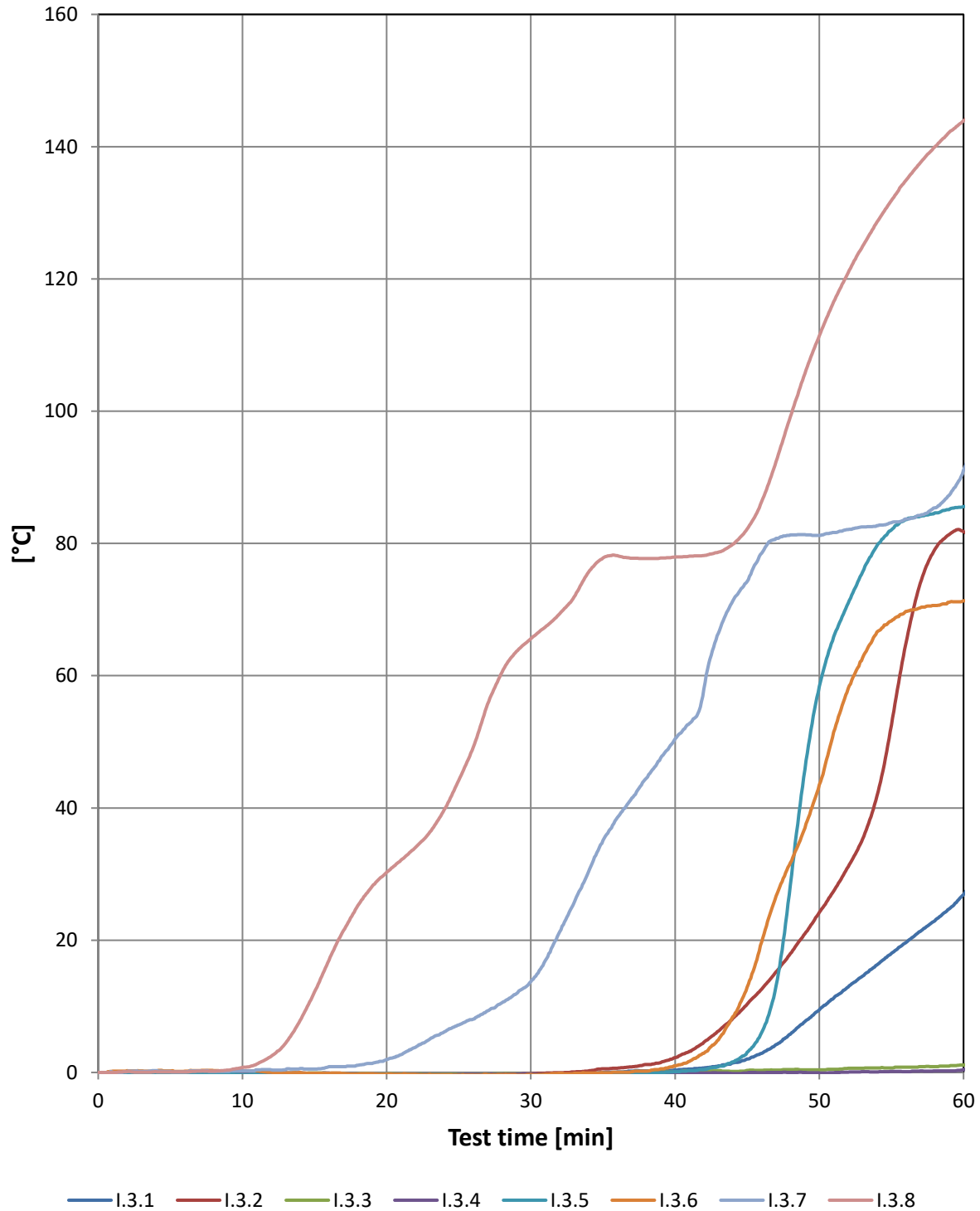


**Temperature rise measured according to the standard - ventilation layer.  
Minimum of 30 sec**

Min. / °C	I.2.1	I.2.2	I.2.3	I.2.4	I.2.5	I.2.6	I.2.7	I.2.8	I.2.Max
0	0	0	0	0	0	0	0	0	0
2	0	0	11	0	0	0	0	8	11
4	0	-1	22	0	1	1	0	54	54
6	0	-1	29	0	2	3	0	106	106
8	0	-1	35	0	5	5	0	114	114
10	0	-1	39	0	6	7	0	84	84
12	0	0	47	0	7	11	0	95	95
14	0	0	50	0	9	21	0	104	104
15	0	0	52	1	9	34	1	107	107
16	0	1	53	1	10	47	1	115	115
18	1	1	57	1	12	60	2	126	126
20	1	1	61	2	14	61	5	142	142
22	2	2	64	3	27	62	11	149	149
24	2	3	68	4	22	79	15	129	129
26	3	3	71	5	17	84	20	147	147
28	4	4	72	7	42	87	24	245	245
30	5	4	74	8	57	106	31	347	347
32	5	5	75	10	74	140	41	425	425
34	7	5	75	11	82	190	48	499	499
36	7	5	74	13	84	244	55	543	543
38	8	5	74	14	85	304	59	578	578
40	9	5	72	15	88	376	63	601	601
42	10	6	72	16	105	527	71	570	570
44	11	6	73	18	144	590	79	537	590
46	12	6	72	19	164	481	83	510	510
48	12	6	72	20	326	486	85	506	506
50	13	6	71	20	396	458	87	492	492
52	13	5	71	21	352	503	90	483	503
54	14	5	71	22	380	529	97	486	529
56	15	5	71	22	421	530	103	532	532
58	16	5	70	23	459	552	109	491	552
60	17	5	69	23	459	573	119	462	573

Failure [min]	-	-	-	-	-	41.50	-	34.00	34.00
Failure°C	500	500	500	500	500	500	500	500	500

## Temperature rise measured according to the standard - in the middle of the insulation. Minimum of 30 sec



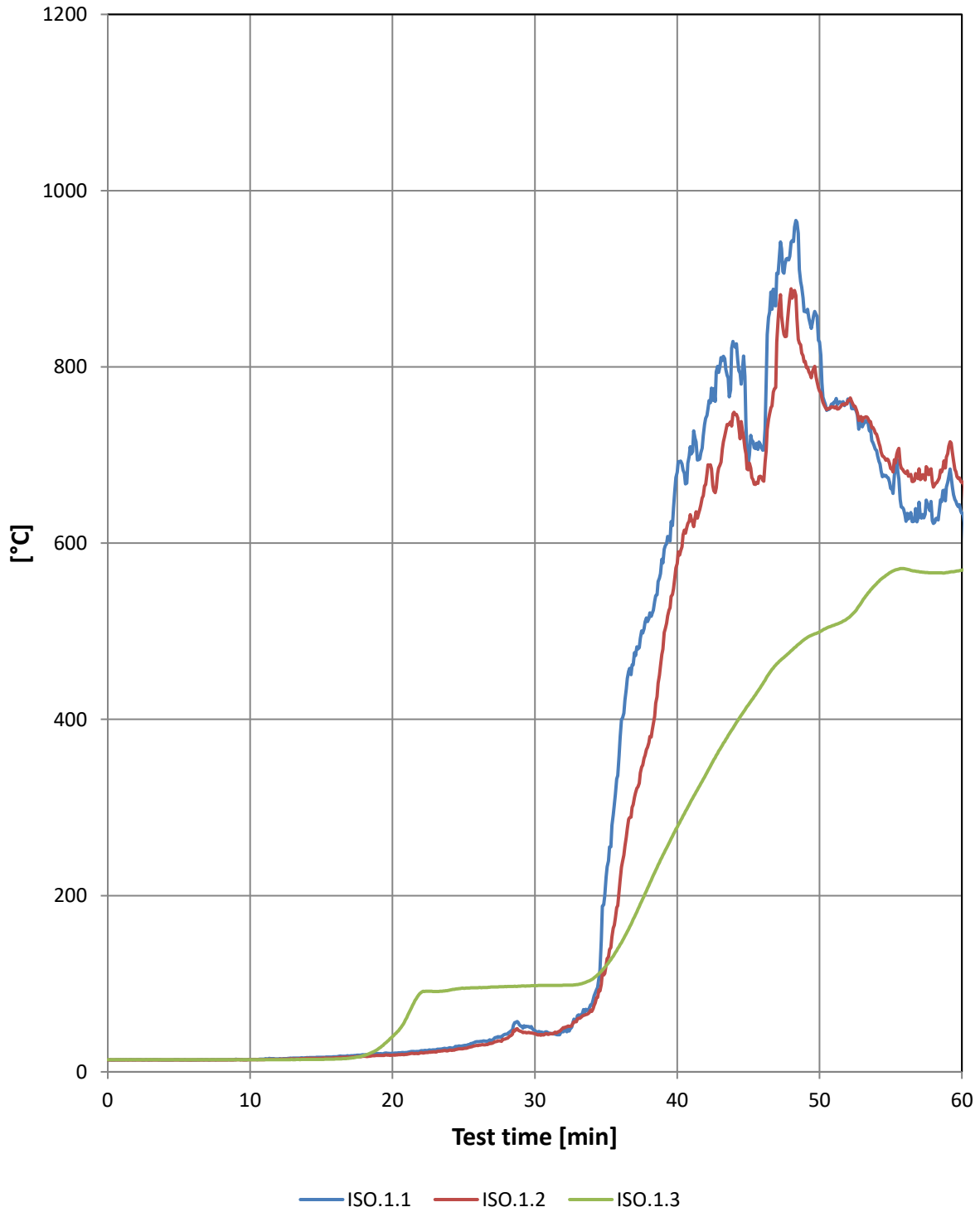


**Temperature rise measured according to the standard - in the middle of the insulation. Minimum of 30 sec**

Min. / °C	I.3.1	I.3.2	I.3.3	I.3.4	I.3.5	I.3.6	I.3.7	I.3.8	I.3.Max
0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	2	2
14	0	0	0	0	0	0	1	8	8
15	0	0	0	0	-1	0	1	12	12
16	0	0	0	0	-1	0	1	17	17
18	0	0	0	0	-1	0	1	25	25
20	-1	0	0	0	-1	0	2	30	30
22	-1	-1	0	0	-1	0	4	34	34
24	-1	-1	0	0	-1	0	6	40	40
26	-1	0	0	0	-1	0	8	49	49
28	-1	0	0	0	-1	0	11	61	61
30	0	0	0	0	-1	0	14	66	66
32	0	0	0	0	0	0	21	69	69
34	0	0	0	0	0	0	30	76	76
36	0	1	0	0	0	0	39	78	78
38	0	1	0	0	0	0	44	78	78
40	0	2	0	0	0	1	50	78	78
42	1	5	0	0	0	3	58	78	78
44	1	8	0	0	2	8	71	80	80
46	3	13	0	0	6	20	79	86	86
48	6	18	0	0	28	32	81	99	99
50	9	24	0	0	58	44	81	111	111
52	13	31	1	0	71	58	82	121	121
54	16	42	1	0	80	67	83	129	129
56	20	65	1	0	84	70	84	135	135
58	23	79	1	0	85	71	85	140	140
60	27	82	1	0	86	71	91	144	144

Failure [min]	-	-	-	-	-	-	-	-	-
Failure °C	500	500	500	500	500	500	500	500	500

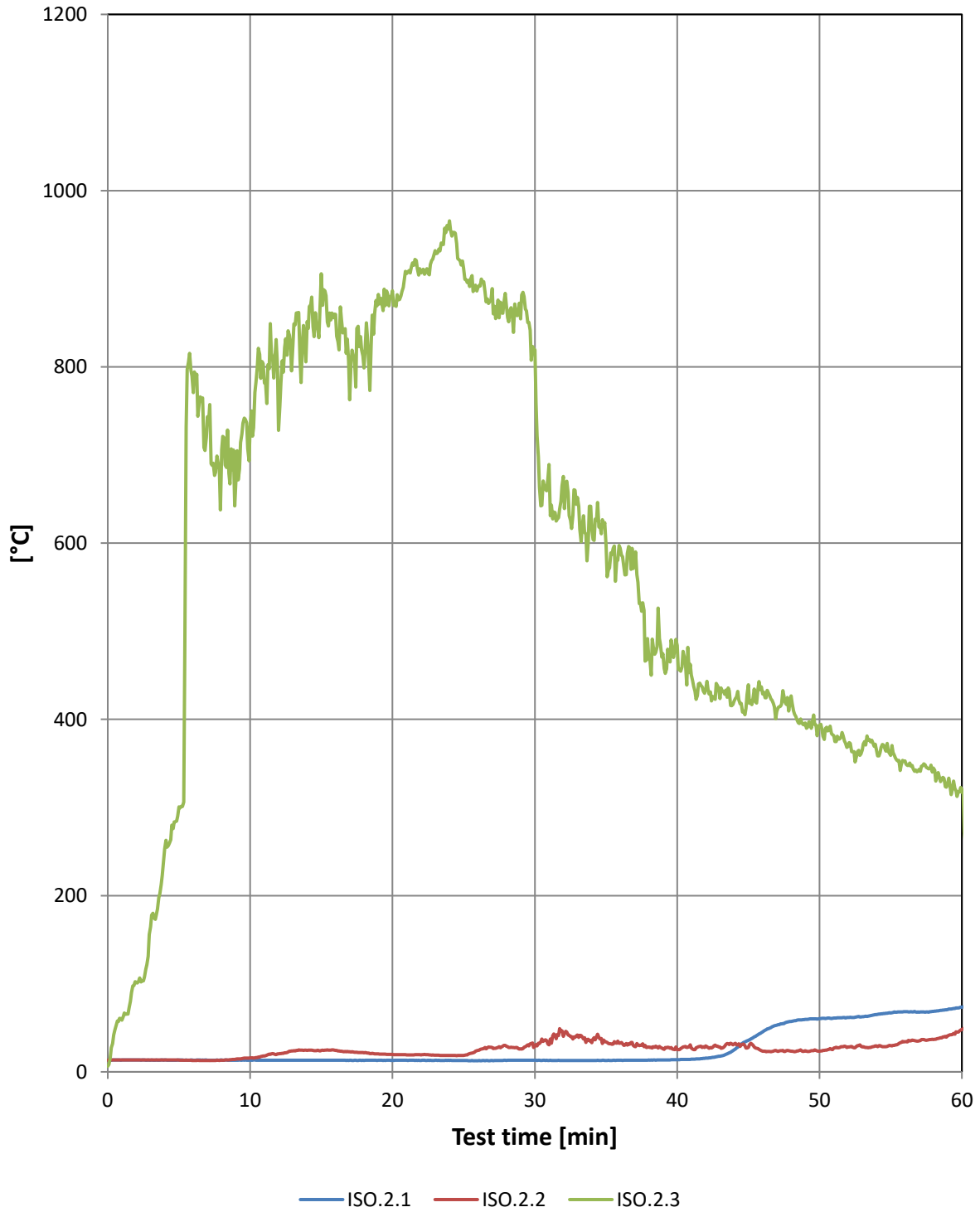
### Temperature measured behind windbreaker



## Temperature measured behind windbreaker

Min. / °C	ISO.1.1	ISO.1.2	ISO.1.3
0	14	13	14
2	14	14	14
4	14	13	14
6	13	13	14
8	14	14	14
10	14	14	14
12	15	14	14
14	16	15	14
15	16	15	14
16	17	16	15
18	19	18	19
20	21	19	40
22	24	22	90
24	27	25	93
26	34	30	96
28	43	38	97
30	47	43	98
32	45	50	98
34	76	69	105
36	380	218	144
38	514	373	211
40	680	577	278
42	741	666	337
44	824	748	392
46	705	671	440
48	942	889	478
50	828	773	499
52	764	762	515
54	705	723	554
56	632	680	571
58	622	664	566
60	634	669	569

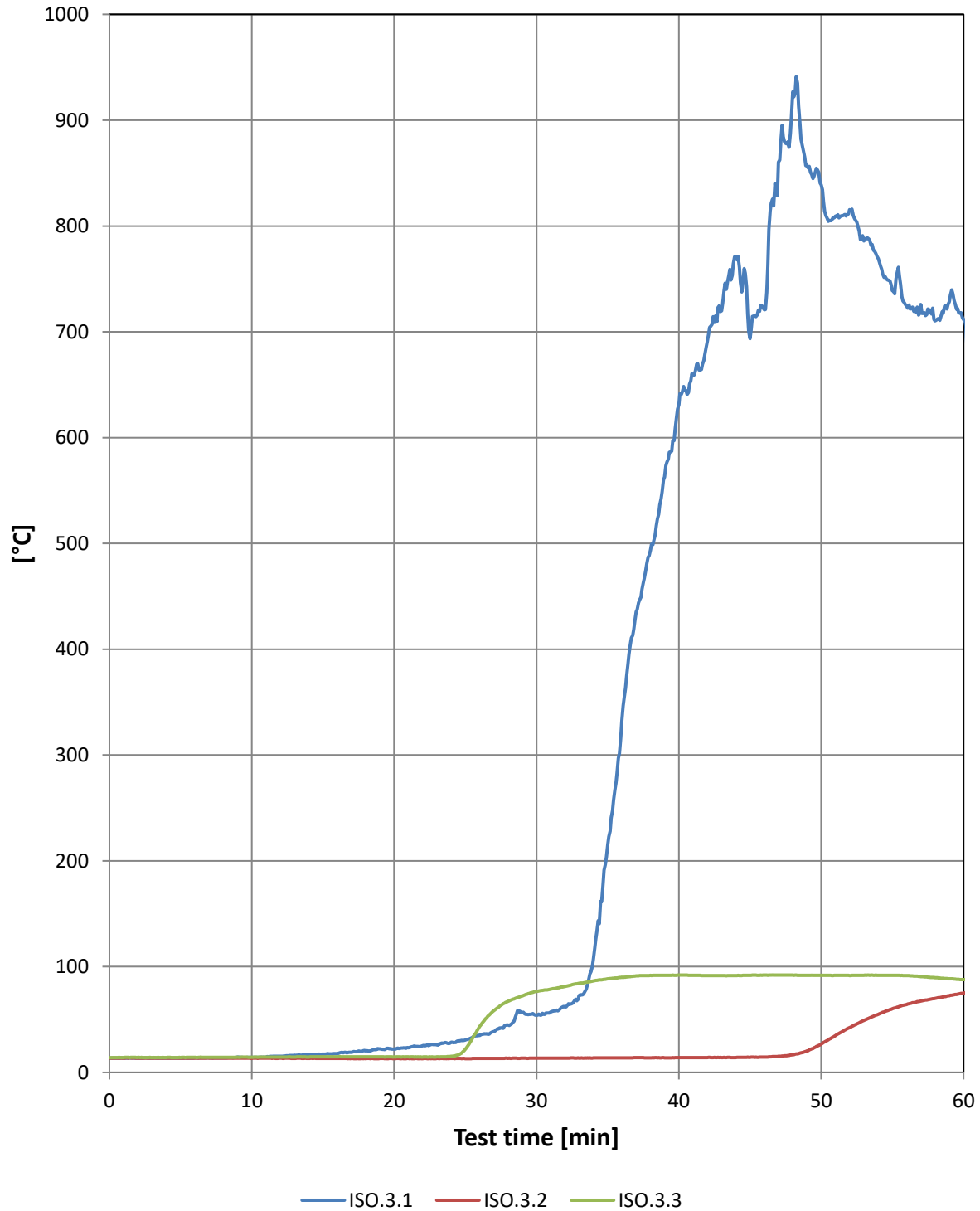
### Temperature measured back side of insulation



## Temperature measured back side of insulation

Min. / °C	ISO.2.1	ISO.2.2	ISO.2.3
0	13	13	6
2	13	14	101
4	13	14	253
6	13	13	771
8	13	13	706
10	13	16	732
12	13	20	728
14	13	24	852
15	13	24	906
16	13	24	860
18	13	22	799
20	13	20	886
22	13	19	907
24	13	19	966
26	13	24	890
28	13	29	871
30	13	29	819
32	13	40	676
34	13	33	616
36	13	32	594
38	13	28	469
40	14	25	484
42	15	30	434
44	25	32	421
46	45	24	429
48	57	24	427
50	60	23	393
52	62	28	369
54	65	29	365
56	68	34	353
58	69	37	345
60	74	48	317

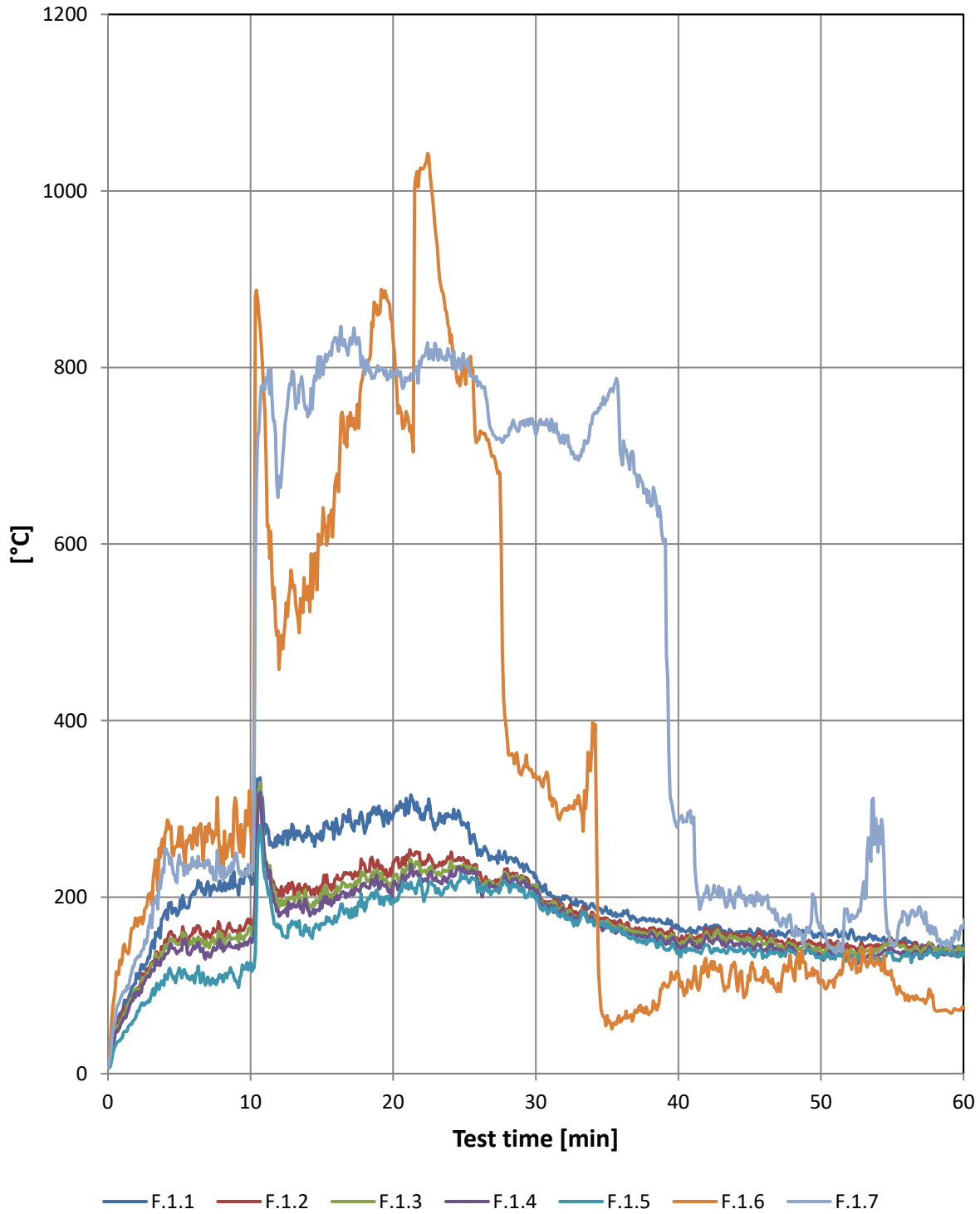
## Temperature measured middle of insulation



## Temperature measured middle of insulation

Min. / °C	ISO.3.1	ISO.3.2	ISO.3.3
0	14	14	14
2	14	14	14
4	14	14	14
6	14	14	14
8	14	14	14
10	14	13	14
12	15	13	15
14	17	13	15
15	17	13	15
16	18	13	15
18	20	13	15
20	22	13	15
22	25	13	15
24	29	13	15
26	35	13	43
28	45	13	67
30	54	14	77
32	62	14	81
34	107	14	87
36	332	14	90
38	494	14	92
40	631	14	92
42	691	14	92
44	771	14	92
46	721	15	92
48	927	17	92
50	839	27	92
52	815	42	92
54	769	55	92
56	724	64	91
58	710	70	90
60	712	75	88

### Vertical measurements on main facade

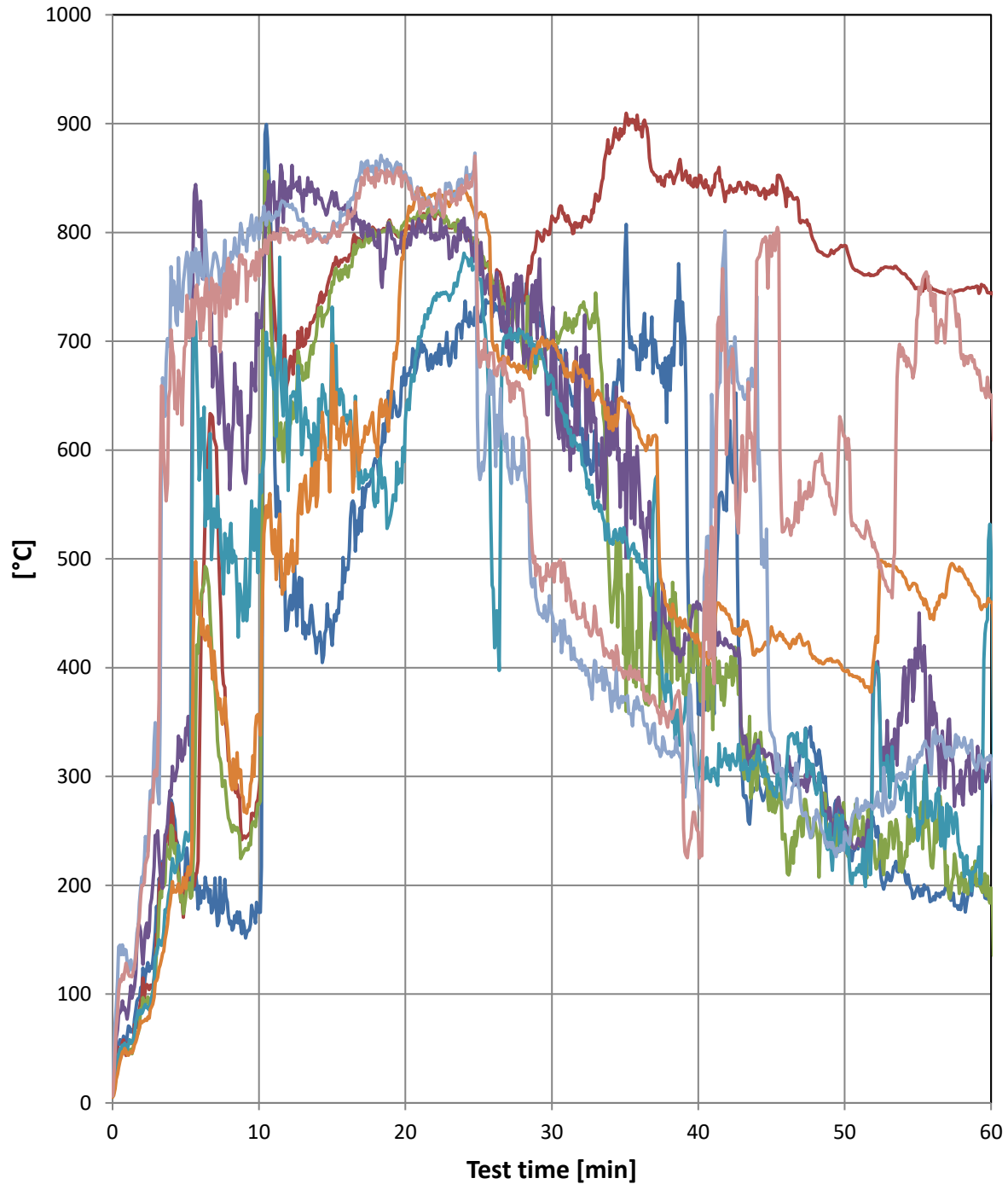




## Vertical measurements on main facade

Min. / °C	F.1.1	F.1.2	F.1.3	F.1.4	F.1.5	F.1.6	F.1.7
0	8	7	7	7	7	6	7
2	114	96	96	93	66	173	130
4	183	151	145	135	112	272	255
6	206	165	154	145	106	278	235
8	207	162	158	146	111	256	235
10	220	175	166	153	126	277	234
12	262	201	189	178	165	458	677
14	280	211	191	185	162	552	744
15	264	210	199	188	169	602	797
16	289	221	205	197	172	675	834
18	272	236	227	215	184	795	792
20	293	239	221	214	197	831	793
22	288	239	231	221	212	1025	810
24	292	243	238	228	216	828	812
26	252	228	220	214	211	718	784
28	239	232	227	218	213	381	722
30	224	213	210	203	197	337	723
32	198	186	184	180	179	300	714
34	193	182	179	173	172	398	746
36	181	171	168	164	160	59	699
38	176	165	160	158	150	68	646
40	167	153	148	145	140	113	286
42	166	165	161	157	146	116	213
44	159	158	155	147	140	122	203
46	161	155	148	140	134	117	200
48	157	149	145	143	138	118	157
50	159	146	140	134	133	106	167
52	157	144	138	131	131	124	172
54	151	146	139	135	129	126	251
56	150	144	138	133	135	87	179
58	141	142	143	137	135	72	165
60	142	142	142	137	137	75	165

## Vertical measurements on main facade

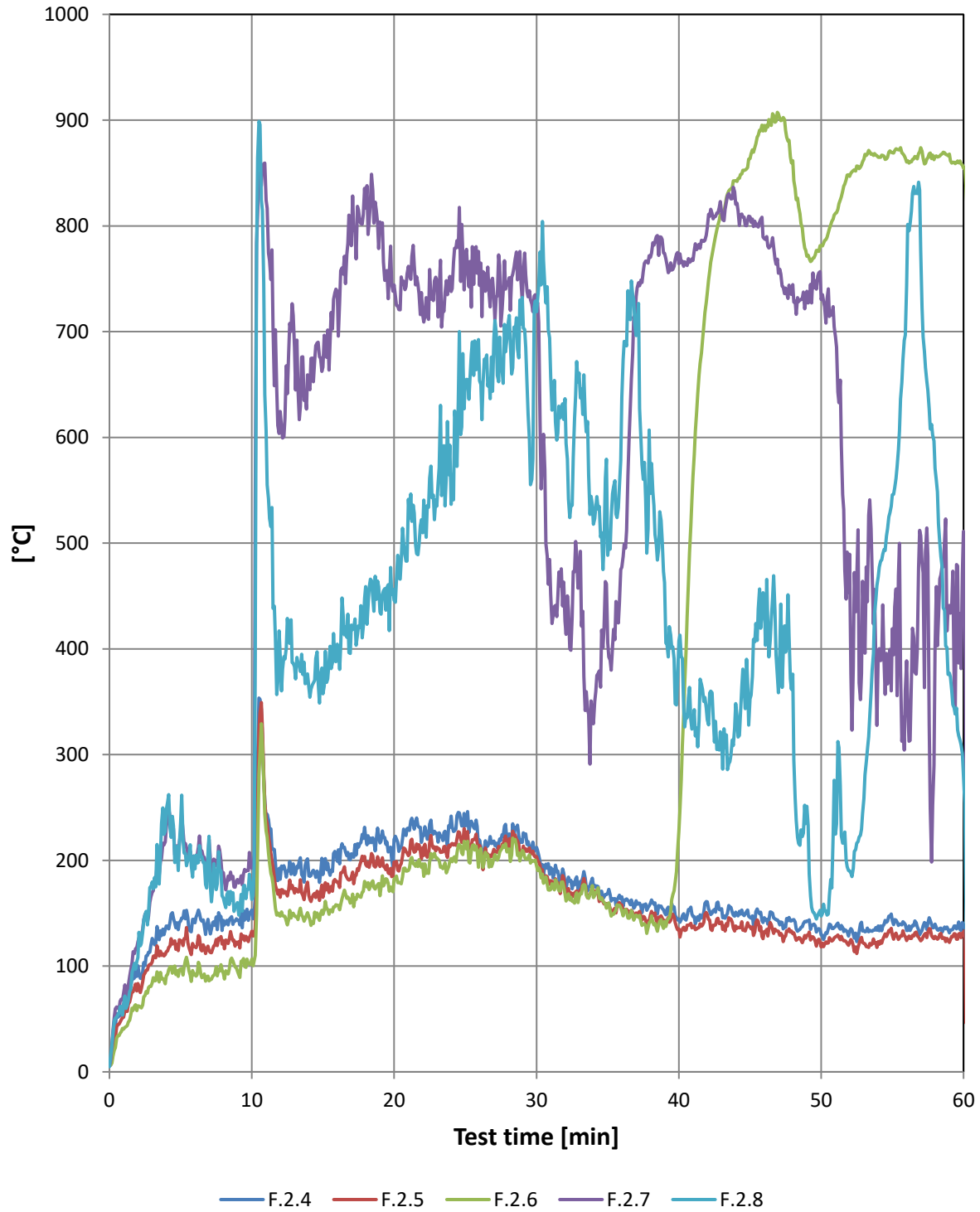


— F.1.8 — F.1.9 — F.1.10 — F.1.11 — F.1.12 — F.1.13 — F.1.14 — F.1.15

## Vertical measurements on main facade

Min. / °C	F.1.8	F.1.9	F.1.10	F.1.11	F.1.12	F.1.13	F.1.14	F.1.15
0	6	6	6	7	6	5	7	7
2	104	96	86	140	82	74	208	200
4	279	276	255	282	212	192	769	711
6	184	395	456	829	595	447	774	702
8	165	314	259	564	521	305	767	730
10	175	287	274	719	537	356	794	760
12	445	665	588	840	563	486	826	798
14	428	733	721	840	587	558	800	798
15	421	766	755	838	731	698	805	801
16	490	774	762	818	632	614	816	808
18	589	802	796	791	559	609	866	859
20	660	803	810	787	628	798	855	853
22	687	812	814	793	741	836	823	819
24	719	800	802	813	781	840	846	838
26	727	754	753	751	472	696	673	689
28	736	739	692	738	709	677	611	655
30	702	815	705	720	666	698	449	493
32	616	805	733	686	602	672	407	446
34	623	878	460	597	514	625	371	409
36	674	895	474	560	497	612	361	389
38	686	851	433	441	387	452	323	356
40	357	845	388	454	299	424	285	249
42	592	838	397	422	311	449	669	613
44	290	841	288	327	317	417	741	774
46	307	824	231	306	299	423	273	531
48	321	789	256	291	288	409	261	589
50	254	788	256	258	251	397	249	613
52	255	761	240	384	392	409	271	515
54	214	762	217	390	292	484	299	692
56	186	748	216	348	259	449	330	744
58	186	747	211	283	229	491	327	684
60	191	744	197	319	506	460	316	651

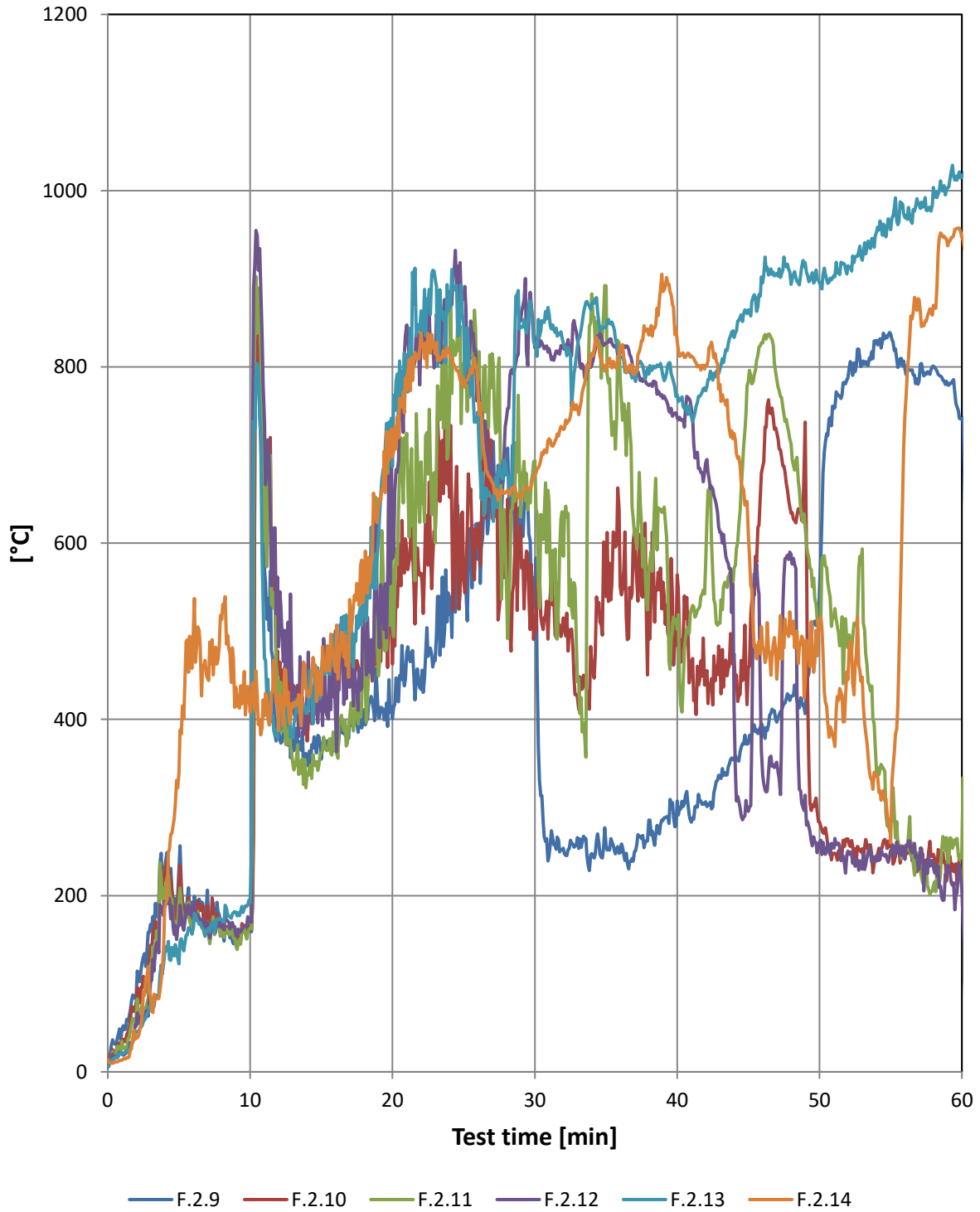
## Vertical measurements on the wing



## Vertical measurements on the wing

Min. / °C	F.2.4	F.2.5	F.2.6	F.2.7	F.2.8
0	6	6	7	5	5
2	100	83	62	123	108
4	138	114	91	231	248
6	141	118	93	198	192
8	143	124	93	188	164
10	153	133	107	192	163
12	182	165	147	625	394
14	185	167	147	648	364
15	187	165	149	666	358
16	199	180	157	738	404
18	222	196	178	817	459
20	220	198	182	744	446
22	224	212	197	716	510
24	242	215	202	738	537
26	219	214	207	744	654
28	223	216	210	745	707
30	212	203	195	725	719
32	179	174	168	426	637
34	176	167	165	329	518
36	166	158	152	477	638
38	159	149	142	770	547
40	145	135	228	764	407
42	161	149	737	798	333
44	151	138	843	820	348
46	146	133	895	788	449
48	144	131	862	744	376
50	130	118	781	730	147
52	133	122	847	490	190
54	138	123	865	397	468
56	134	124	860	389	744
58	140	128	866	400	571
60	139	132	855	511	281

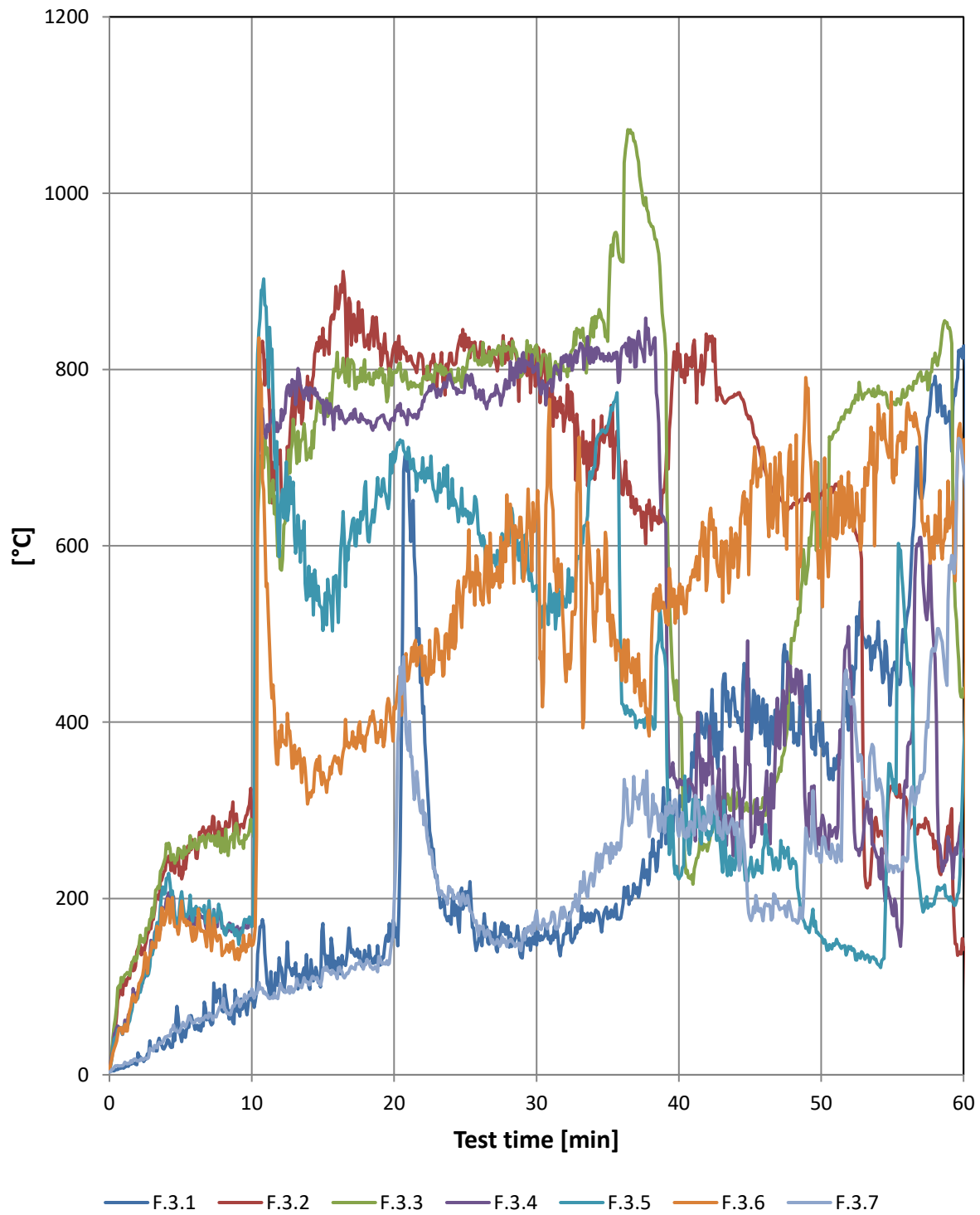
### Vertical measurements on the wing



## Vertical measurements on the wing

Min. / °C	F.2.9	F.2.10	F.2.11	F.2.12	F.2.13	F.2.14
0	5	5	5	5	5	14
2	88	79	63	52	46	40
4	230	220	208	194	134	184
6	180	176	164	173	163	499
8	156	164	157	168	172	513
10	161	164	163	171	192	408
12	390	451	427	482	419	387
14	360	376	339	434	407	431
15	355	409	361	424	449	428
16	377	501	365	400	464	455
18	411	465	509	482	551	544
20	401	463	505	582	687	698
22	434	566	692	842	863	839
24	519	652	754	886	876	816
26	582	606	780	784	749	777
28	678	574	561	740	680	658
30	549	516	694	822	825	677
32	254	515	585	821	827	729
34	248	464	883	802	871	815
36	249	550	788	816	812	825
38	286	571	570	779	792	836
40	307	564	502	743	768	829
42	307	449	575	691	773	802
44	354	474	571	413	833	725
46	392	687	827	337	895	481
48	426	634	712	587	894	505
50	549	284	505	261	895	501
52	788	264	481	250	915	445
54	830	245	340	239	953	336
56	798	246	244	241	969	747
58	801	247	211	232	1003	870
60	741	246	248	209	1015	947

## Horizontal measurements

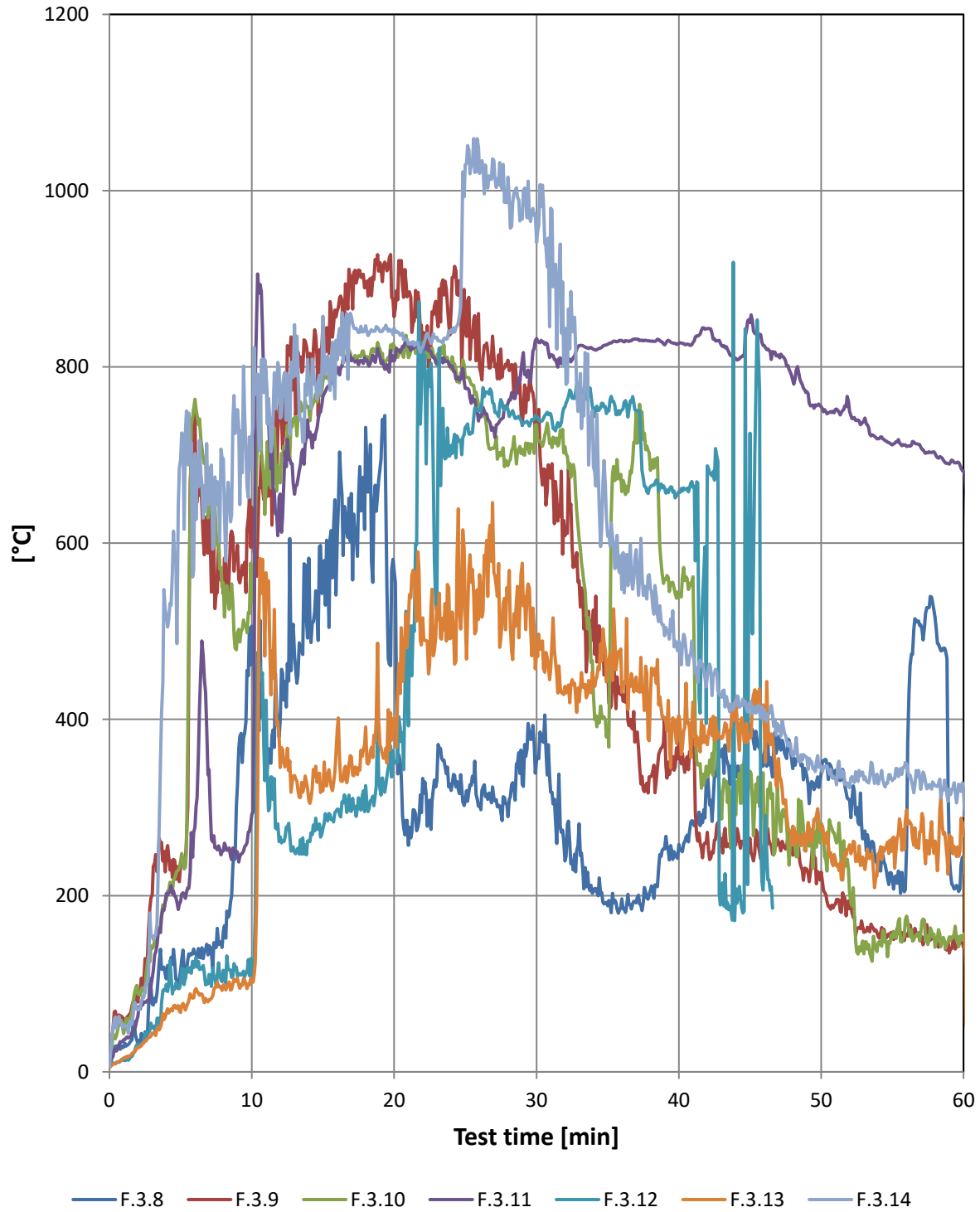




## Horizontal measurements

Min. / °C	F.3.1	F.3.2	F.3.3	F.3.4	F.3.5	F.3.6	F.3.7
0	4	6	5	6	6	5	3
2	25	143	140	94	87	93	15
4	35	244	262	198	223	182	43
6	51	264	267	170	181	153	60
8	71	267	260	168	167	138	87
10	84	292	277	171	168	146	97
12	124	709	574	734	638	372	103
14	100	766	701	765	577	315	102
15	172	847	751	765	504	343	119
16	112	880	820	754	541	354	109
18	132	827	786	742	673	384	125
20	172	827	798	742	695	418	193
22	410	812	790	765	700	453	311
24	171	819	800	787	646	522	207
26	162	818	810	777	614	569	169
28	169	811	826	786	617	600	152
30	147	791	828	803	555	639	186
32	160	744	798	809	531	462	185
34	174	742	837	808	689	512	214
36	184	659	923	824	421	447	279
38	252	635	965	817	403	426	280
40	293	803	410	332	222	552	271
42	401	822	254	353	277	559	287
44	407	771	302	349	241	614	274
46	395	687	303	300	260	703	191
48	422	647	495	449	245	666	175
50	373	659	598	284	157	591	241
52	408	636	751	463	143	621	427
54	514	270	781	247	125	761	326
56	519	311	771	326	482	754	242
58	792	265	819	473	201	635	481
60	827	142	438	255	355	717	690

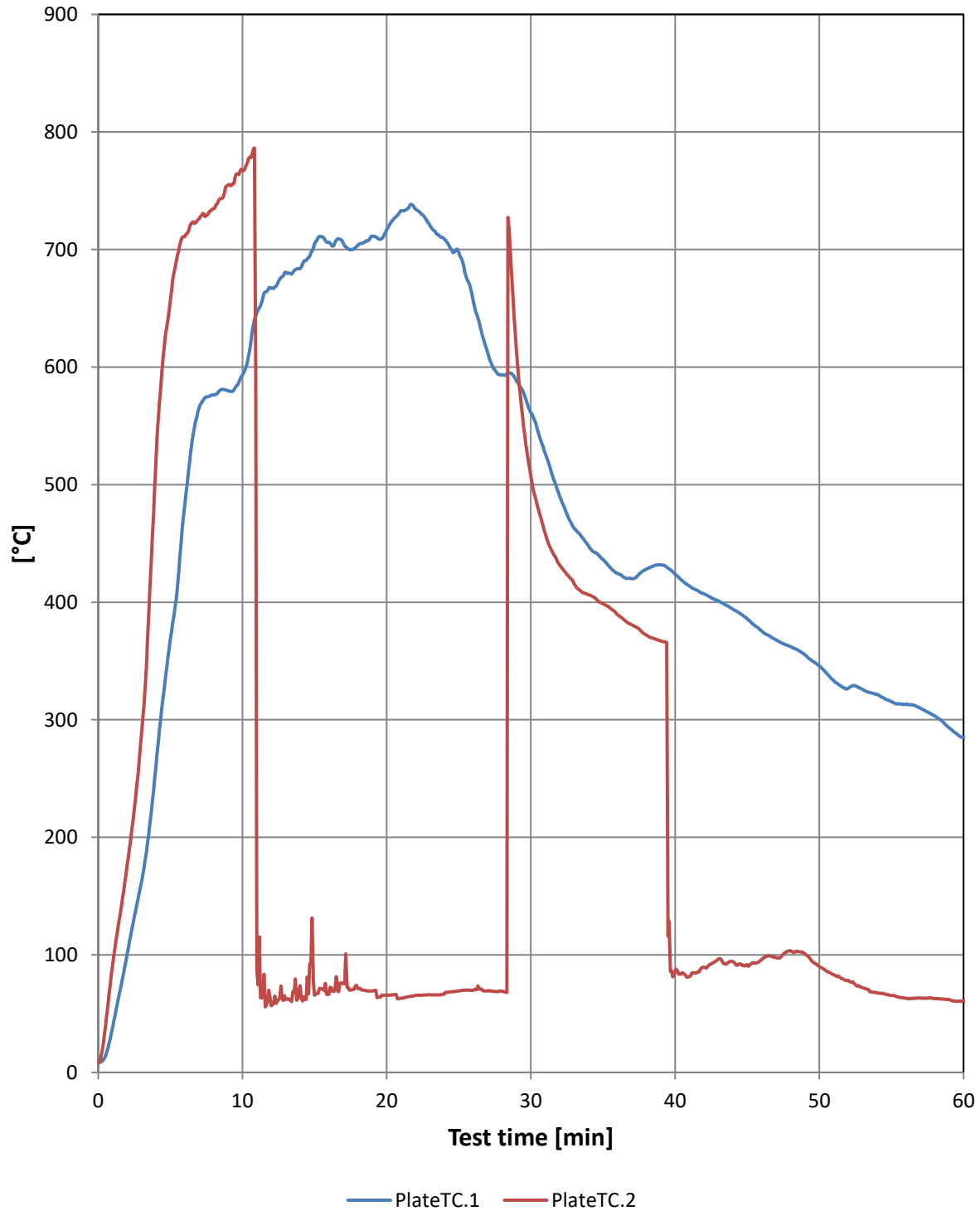
## Horizontal measurements



## Horizontal measurements

Min. / °C	F.3.8	F.3.9	F.3.10	F.3.11	F.3.12	F.3.13	F.3.14
0	6	6	7	7	6	5	6
2	32	79	88	63	30	28	71
4	106	248	196	202	99	67	517
6	135	749	763	278	122	93	702
8	160	542	555	251	115	99	696
10	506	641	537	292	107	104	719
12	399	763	668	656	267	345	742
14	583	777	754	720	263	308	779
15	550	848	784	766	276	319	857
16	607	864	799	799	298	388	808
18	731	895	810	807	325	391	847
20	569	857	824	807	351	401	844
22	333	801	821	821	828	515	822
24	320	864	798	801	711	493	842
26	304	799	756	746	753	564	1020
28	290	807	688	759	752	538	1015
30	354	737	734	832	744	477	941
32	239	609	709	806	755	437	844
34	205	524	428	820	749	446	687
36	196	434	659	830	751	431	547
38	206	335	683	829	664	429	548
40	258	373	540	827	658	404	489
42	345	272	334	843	688	371	449
44	341	257	291	810	208	422	416
46	360	259	252	824	236	389	411
48	344	246	279	785	0	257	358
50	338	227	282	755	0	275	345
52	309	185	203	749	0	258	322
54	228	154	146	719	0	248	327
56	258	156	177	710	0	297	350
58	516	150	142	702	0	262	325
60	232	141	153	681	0	271	321

## Plate thermocouple on facade



FacadePlateTC.1 Top  
FacadePlateTC.2 Bottom

## Plate thermocouple on facade

Min. / °C	PlateTC.1	PlateTC.2
0	8	8
2	100	176
4	260	520
6	483	711
8	576	735
10	593	767
12	667	57
14	684	74
15	705	66
16	706	67
18	703	71
20	717	66
22	734	65
24	709	67
26	656	70
28	593	69
30	561	507
32	490	432
34	448	407
36	424	390
38	428	372
40	424	87
42	407	90
44	394	94
46	375	96
48	362	104
50	346	90
52	327	78
54	321	68
56	313	63
58	303	63
60	285	61

*FacadePlateTC.1 Top*  
*FacadePlateTC.2 Bottom*



Photo No. 1 Prefabricated cassettes being mounted.



Photo No. 2 Fixing of prefabricated cassettes.



Photo No. 3 Gap between two cassettes.



Photo No. 4 Insulation in the gap.



Photo No. 5 Membrane on the top of the windbreaker.



Photo No. 6 Cembrit boards mounted to the gap.





Photo No. 7 Hunton Tescon Vana tape to connect the membrane to Cembrit board.



Photo No. 8 FRONT BAND UV 210 tape to tape the overlaps of the membrane.



Photo No. 9 Profiles around windows and fire chamber are being installed.



Photo No. 10 Flame deflectors are being mounted.



Photo No. 11 Corner flame deflectors have been mounted.



Photo No. 12 Vertical formworks have been mounted.



Photo No. 13 Horizontal cladding is being mounted.

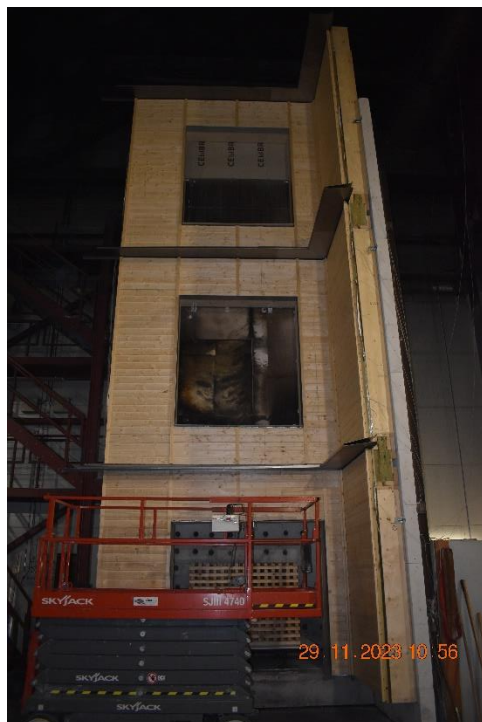


Photo No. 14 Frøslev 25 x 50 civil profiles have been mounted.

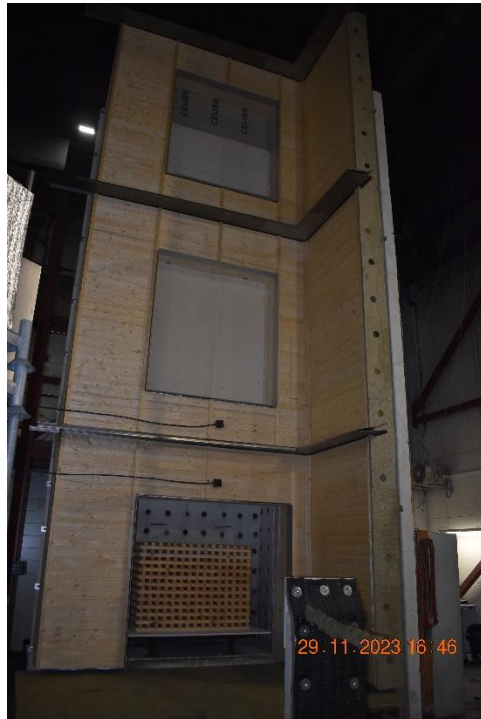


Photo No. 15 Façade before start test.

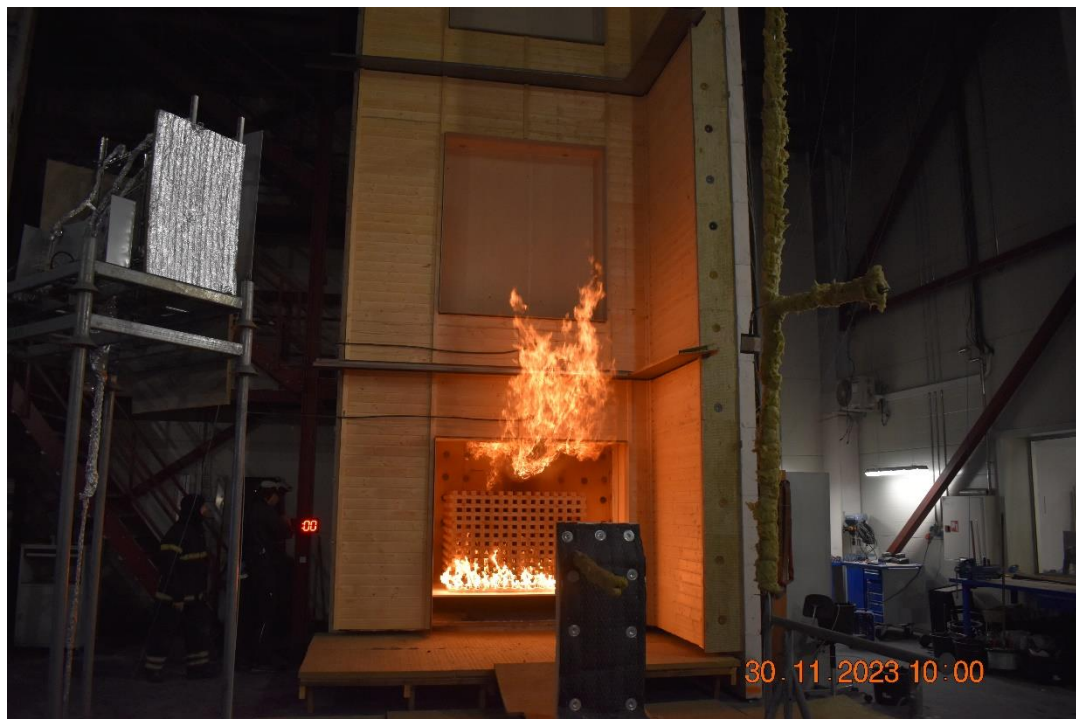


Photo No. 16 Test specimen at start test.

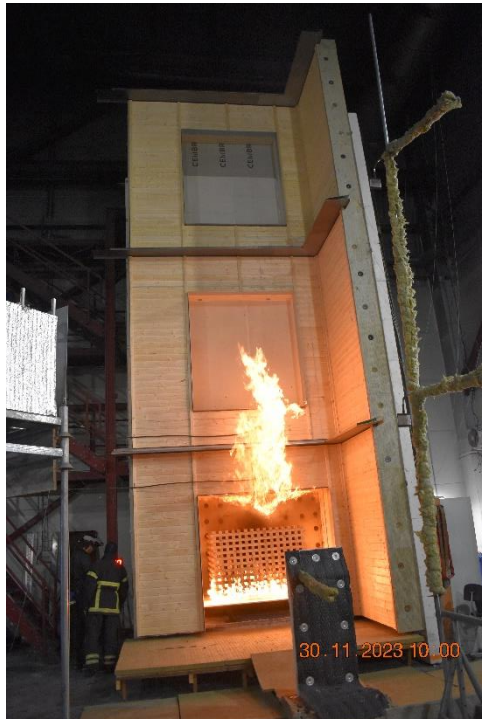


Photo No. 17 Test specimen 1 minutes into the test.



Photo No. 18 Test specimen 4 minutes into the test.



Photo No. 19 Test specimen 5 minutes into the test.



Photo No. 20 Test specimen 6 minutes into the test.



Photo No. 21 Test specimen 8 minutes into the test.



Photo No. 22 Test specimen 10 minutes into the test.





Photo No. 23 Test specimen 19 minutes into the test.



Photo No. 24 Test specimen 21 minutes into the test.



Photo No. 25 Test specimen 25 minutes into the test.



Photo No. 26 Test specimen 29 minutes into the test.



Photo No. 27 Test specimen 36 minutes into the test.



Photo No. 28 Test specimen 40 minutes into the test.



Photo No. 29 Test specimen 43 minutes into the test.



Photo No. 30 Test specimen 56 minutes into the test.



Photo No. 31 Test specimen after the test.



Photo No. 32 Test specimen after the test. Detailed photo of the top of fire chamber.



Photo No. 33 Test specimen after the test. Corner below the first flame deflector.



Photo No. 34 Test specimen after the test. Corner above the first flame deflector.



Photo No. 35 Test specimen after the test. Cassette between the fire chamber and the first window.



Photo No. 36 Test specimen after the test. Corner below the second flame deflector.



Photo No. 37 Test specimen after the test. Cassette between the first window and second flame deflector.

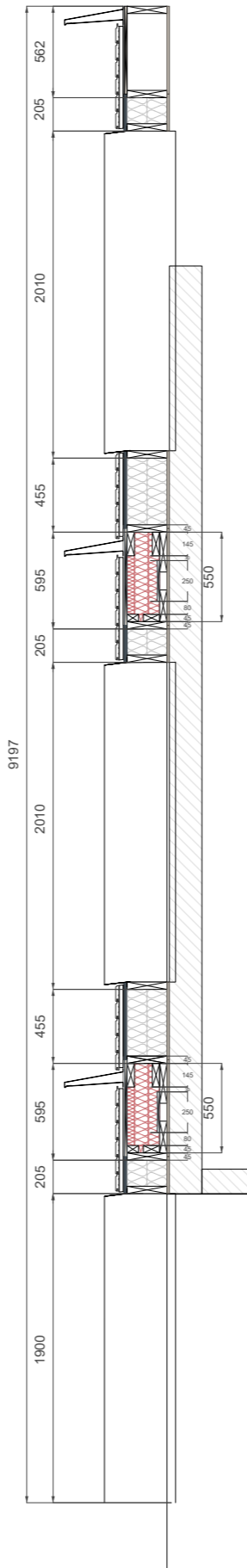
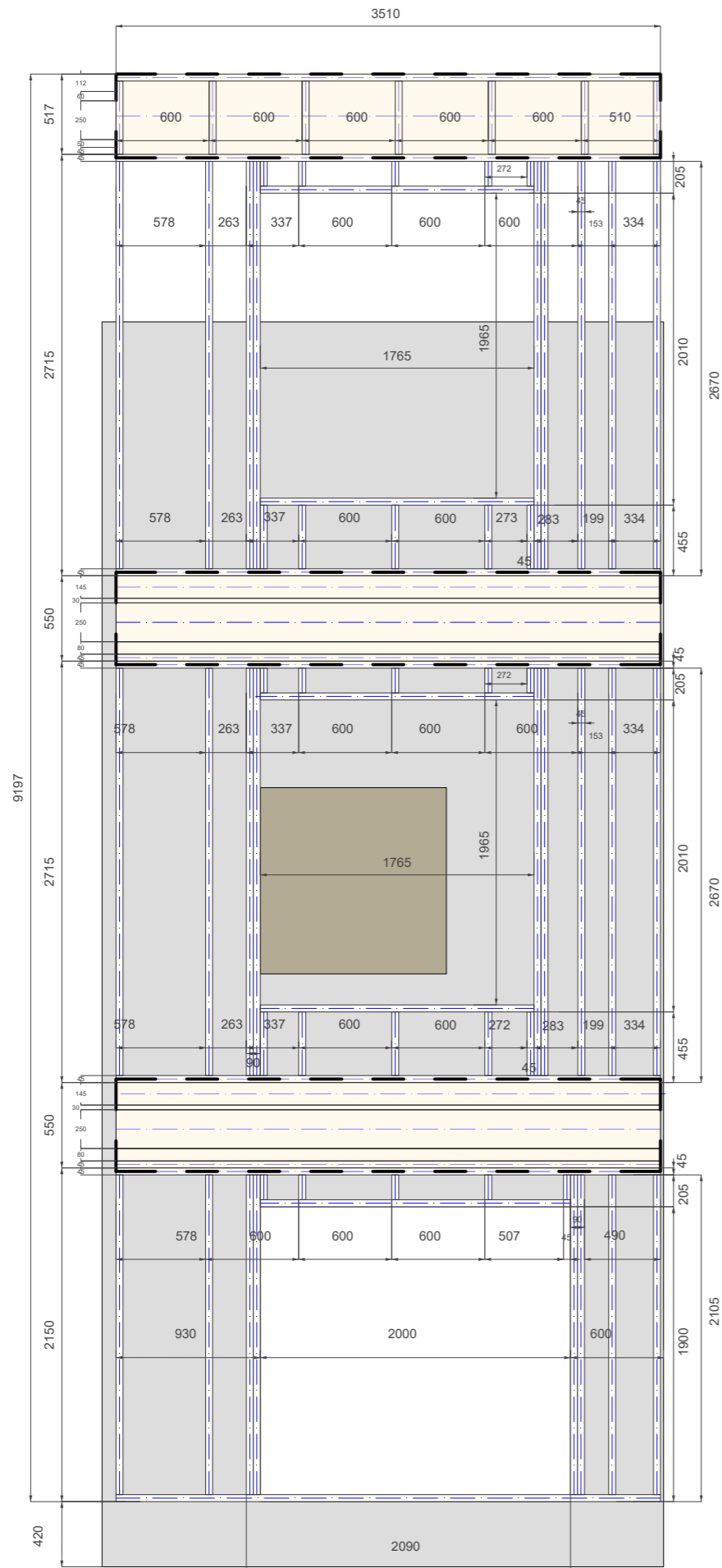


Photo No. 38 Test specimen after the test. Corner below the second flame deflector.





Photo No. 39 Test specimen after the test. Wing façade above the second flame deflector.



#### Montagebeskrivelser:

##### Vindspærre:

Hunton Vindtæt-pladerne monteres med den sorte vindtæt-belægning udad.  
Centerafstand mellem lægter, bjælker, spær e.l. må maksimalt være 600 mm.  
Alle pladekanter skal være understøttet.  
Pladesamlinger skal videst muligt sidde centrert på lægter.  
Pladerne fæstnes med 840265 PZ-16 klammer 64 mm, elgalvaniseret 12+med 100 mm afstand langs pladekanterne. Søm eller klammer skal benyttes, således at hoved/ryg ligger plant med pladens overflade, men uden at bryde den tætnende belægning på pladerne.  
Ved to lag samles Vindtæt pladerne som forbandt jf. tegninger.

##### Traspir alu 430

Hæftes pr. 200 langs lodret.  
pr. 300 vandret.  
Overlap på 200 mm. i vandrette samlinger.  
Samlinger tapes med FRONT BAND UV 210

##### Flammeafbøjer:

Flammeafbøjer udført med 2 mm stålprofil med 4 graders hældning på overside.  
Fastgøres pr. max. 200 mm med RF Skruer m. borespids, RedHorse CORONATM RXB 4.8 X 60 #1 TX20 EPDM-9.5B. Top- og bundprofil befæstes med RF Popnitte Gesipa (no. 1433628) 4.0 x 8.0 mm, A2.  
Samling i brandskørt mellem top- og bundprofil forskydes jf. tegning.  
Langsgående huller er min. 20 mm aflange, skruer placeres i midten af aflangt hul ved montage, så ekspansion kan ske. Skruer må ikke skrues for hårdt fast.

##### Konstruktion/kassetter:

Konstruktionstræ C24. Monteres lodret pr. max. 600 mm. Dimensioner: 45x245 mm.

##### Isolering:

Hunton Nativo 120 x 565 x 1220 mm plader af 2 lag

Hunton nativo plader, monteres på samme måde som andre typer isolation.  
Pladerne skæres på overmål, så de slutter tæt om konstruktionstræet.  
Overmålet må gerne være så meget at pladerne komprimeres vertikalt, og står i spænd.  
Det anbefales at man benytter håndsav, eller elektrisk isoleringssav.

Montering af pladerne bør altid starte i bunden, og derefter arbejde sig oppefter.  
Ved montering af flere lag monteres pladerne i forbandt.

##### Facadebeklædning:

Frøslev  
Træbeklædning af Frøslev profil 2685 Færdigmål: 21 x 120 mm, Dækbredde: 110 mm.  
Profilbrædderne fastgøres med Ringsøm - Tjep ZE 2,5 X 50 mm, rustfri A4.

OBS! Ved skruemontage skal der forbores i profilernes ender for at undgå at listen flækker.

Fastgørelse min. 25 mm fra endetræ.

OBS! Fastgørelser må ikke være i overlængde, så de rammer bagkonstruktionen.

OBS! Søm og skruerhoved må max. lande på profilbræddets overflade og ikke gå under niveau. Dette er vigtigt for at undgå at profilbræddet flækker.

##### Afstandslisters

Afstandslisters i træ: Lodrette og vandrette afstandslisters imprægneret træ.  
Dimension: 25x50 mm.

Monteres pr. 600 mm. Fastgøres med Ringsøm - TJEP GR 31/90 mm, varmgalv.. pr 600mm c/c min 50mm fra endetræ

**Udvendig vertikale listers** ubehandlet gran 45 x 21 Profil: 4262, fastgøres med ringsøm Tjep ZE 2,5x50 mm, rustfri A4 monteres jf tegninger

##### Etageadskillelse:

isolering:

Rockwool A-batts 70 X 560 X 965 MM

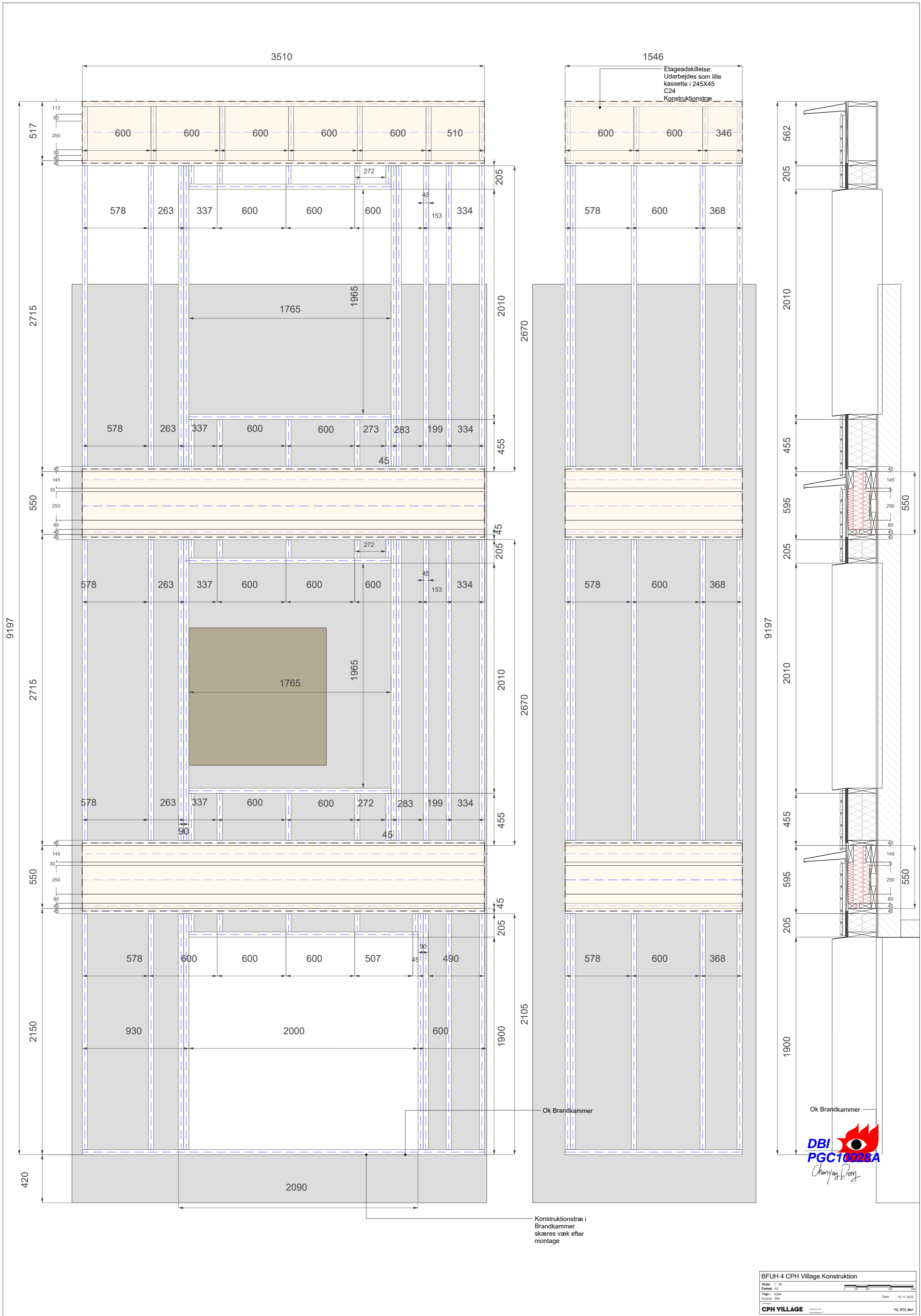
Rockwool A-batts 95 X 560 X 965 MM

Etageadskillelsen:

Spærtræ monteres i jf. tegning



Mock Up BFUH 3 CPH-Village	
Skala: 1:40	
Format: A3	
Tegn.: RSM	Dato: 15.11.2023
Kontrol: SNI	
CPH VILLAGE	
TU_ST3_No8	



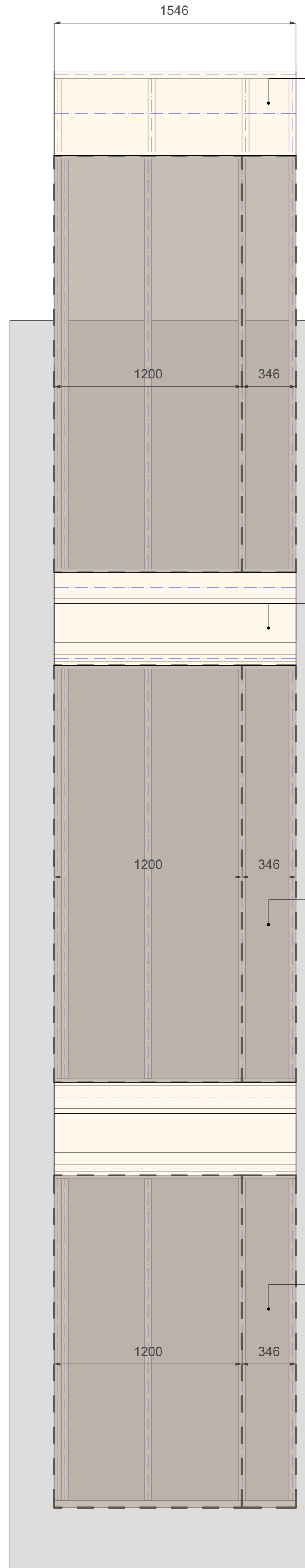
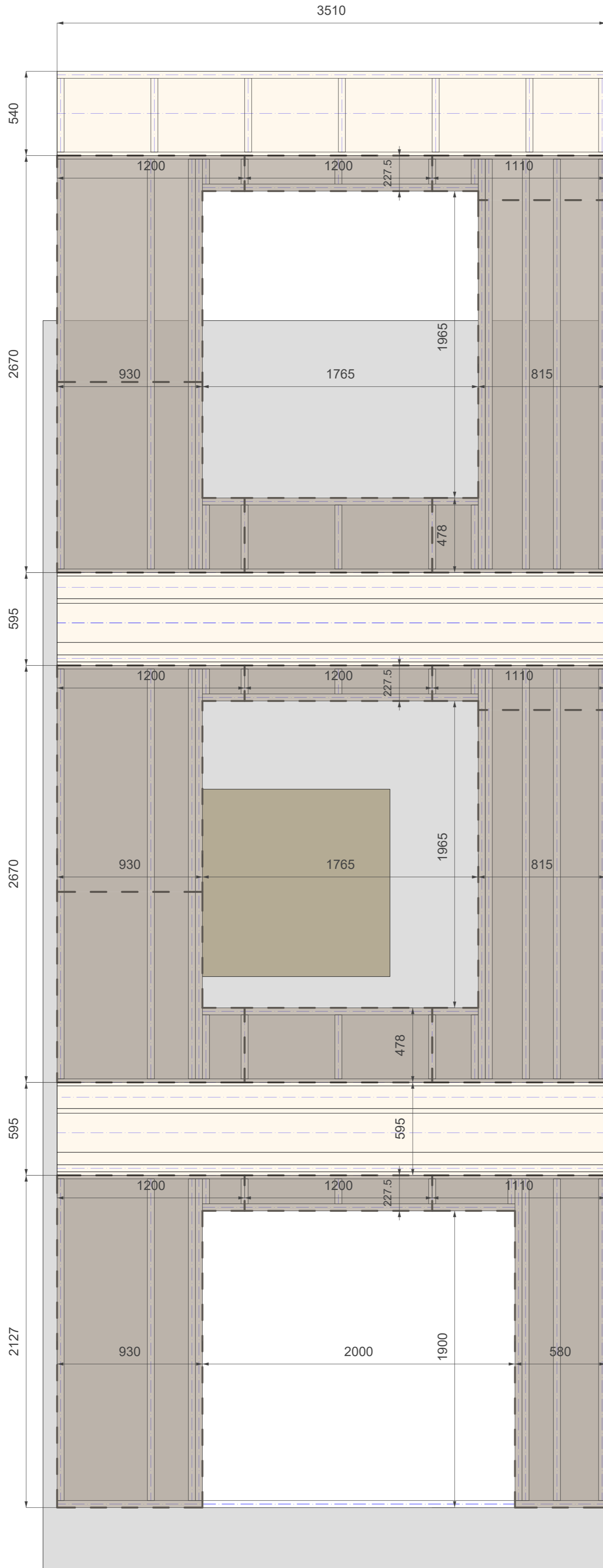
Etageadskillelse:  
Udarbejdes som lille  
kassette i 245X45  
C24  
Konstruktionstræ

Ok Brandkammer

Ok Brandkammer

Konstruktionstræ i  
Brandkammer  
skæres væk efter  
montage





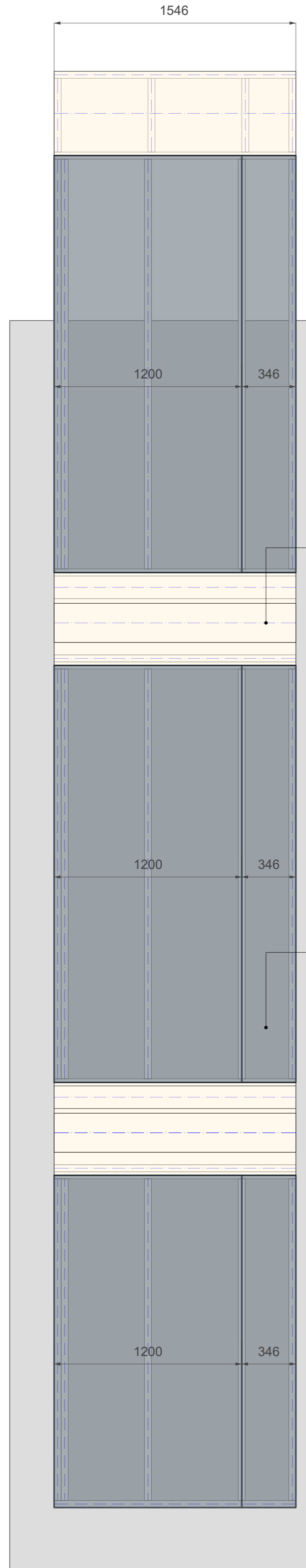
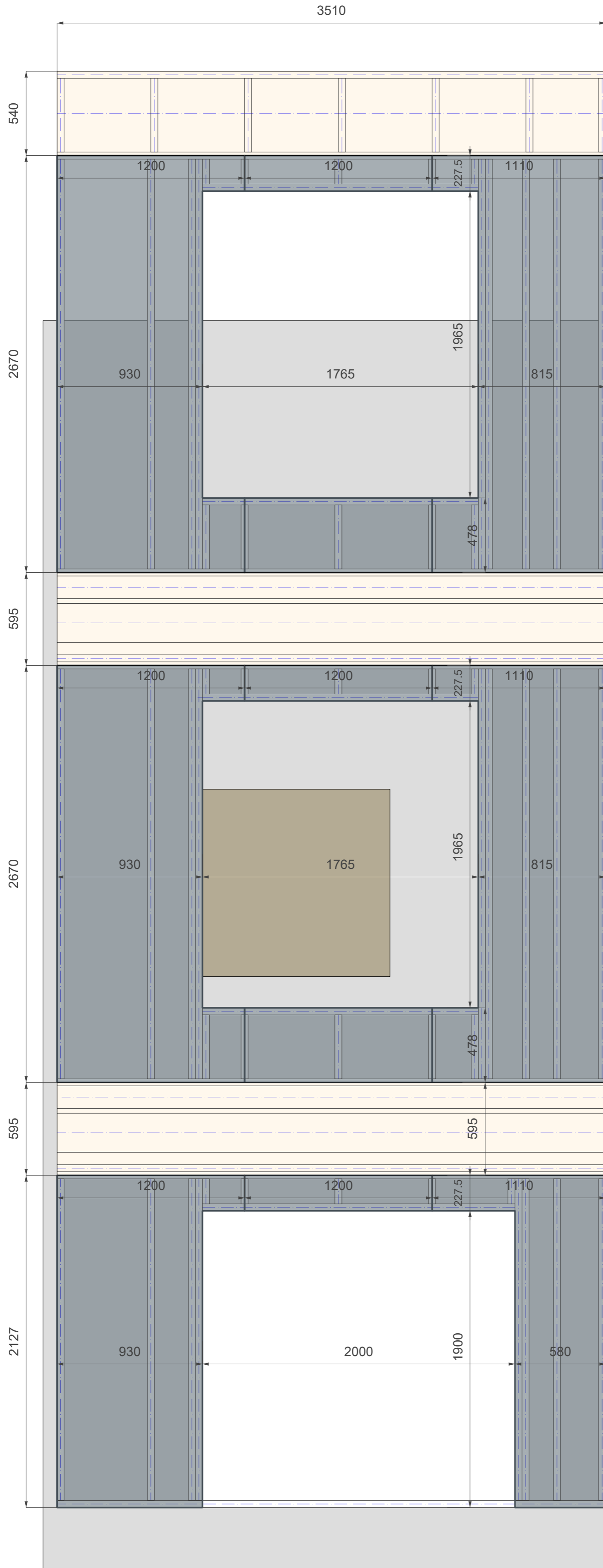
**OSB 15 mm**  
 Monteres med 25/65  
 tjep ringsøm  
 Etageadskillelse  
 samt top kassetter  
 monteres hos DBI

**OSB 15 mm**  
 Monteres med 25/65  
 tjep ringsøm  
 Etageadskillelse  
 samt top kassetter  
 monteres hos DBI

**OSB 15 mm**  
 Monteres med 25/65  
 tjep ringsøm på  
 kassetter hos JBS

**OSB 15 mm**  
 Monteres med 25/65  
 tjep ringsøm på  
 kassetter hos JBS

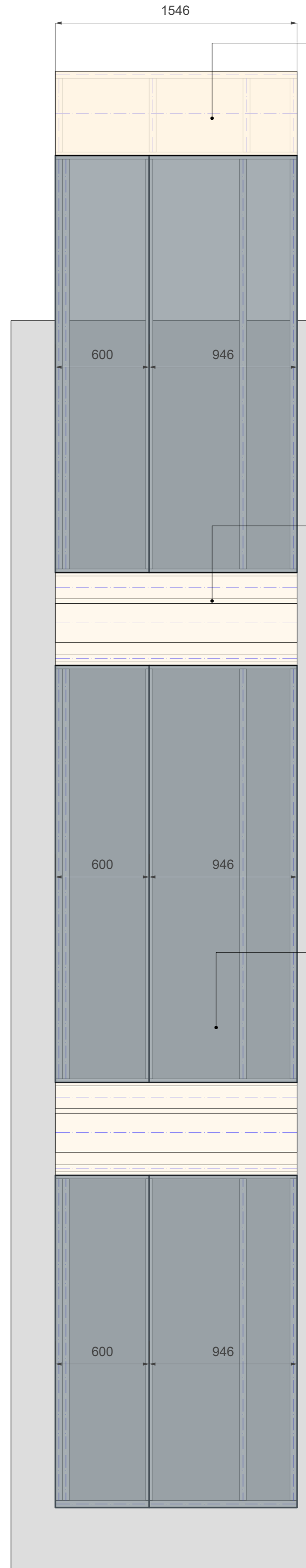
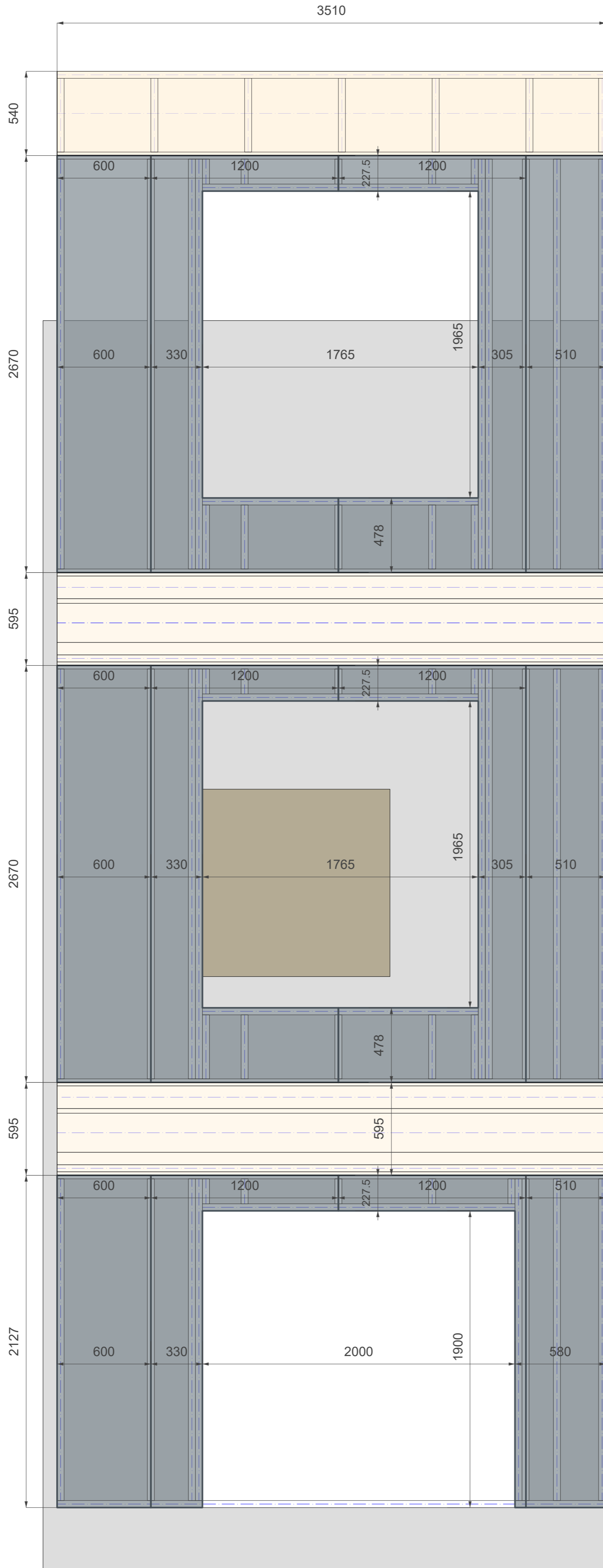




Krydsfinér i første lag i etageadskillelsen

**Vindspærre**  
 Hulton Vindtæt  
 2x 12 mm  
 Samlet i forbandt  
 jf. tegninger  
 Fæstnes med 840265 PZ-16  
 klammer 64 mm,  
 elgalvaniseret 12+  
 Pladerne fæstnes med 100  
 mm afstand langs  
 pladekanterne og med 250  
 mm afstand langs midten af  
 pladerne for at sikre  
 tilstrækkelig vindafstivning  
 og tætning



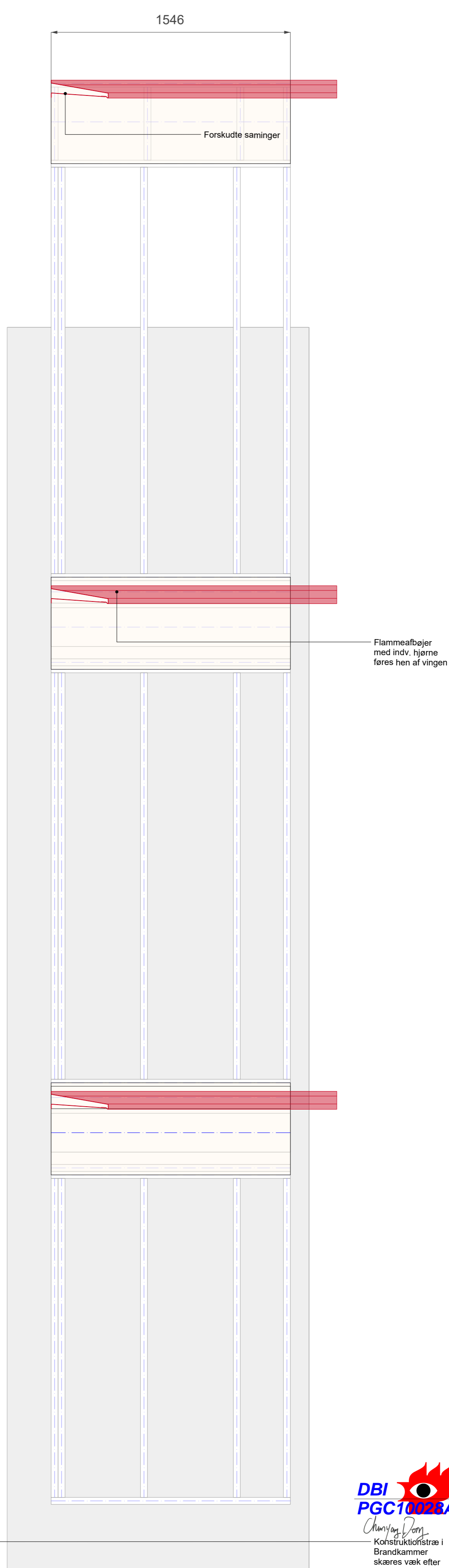
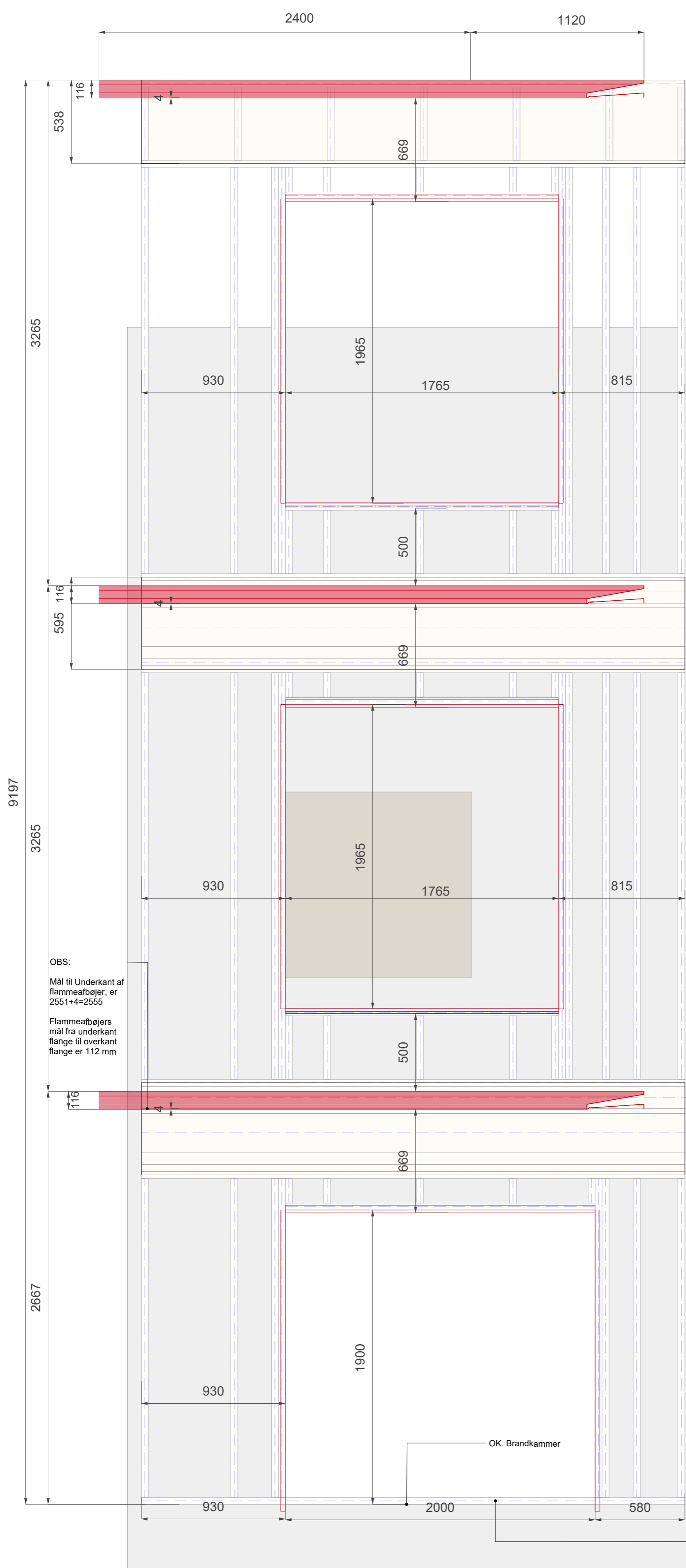


Cembrit Windstopper Basic  
i andet lag i etageadskillelsen

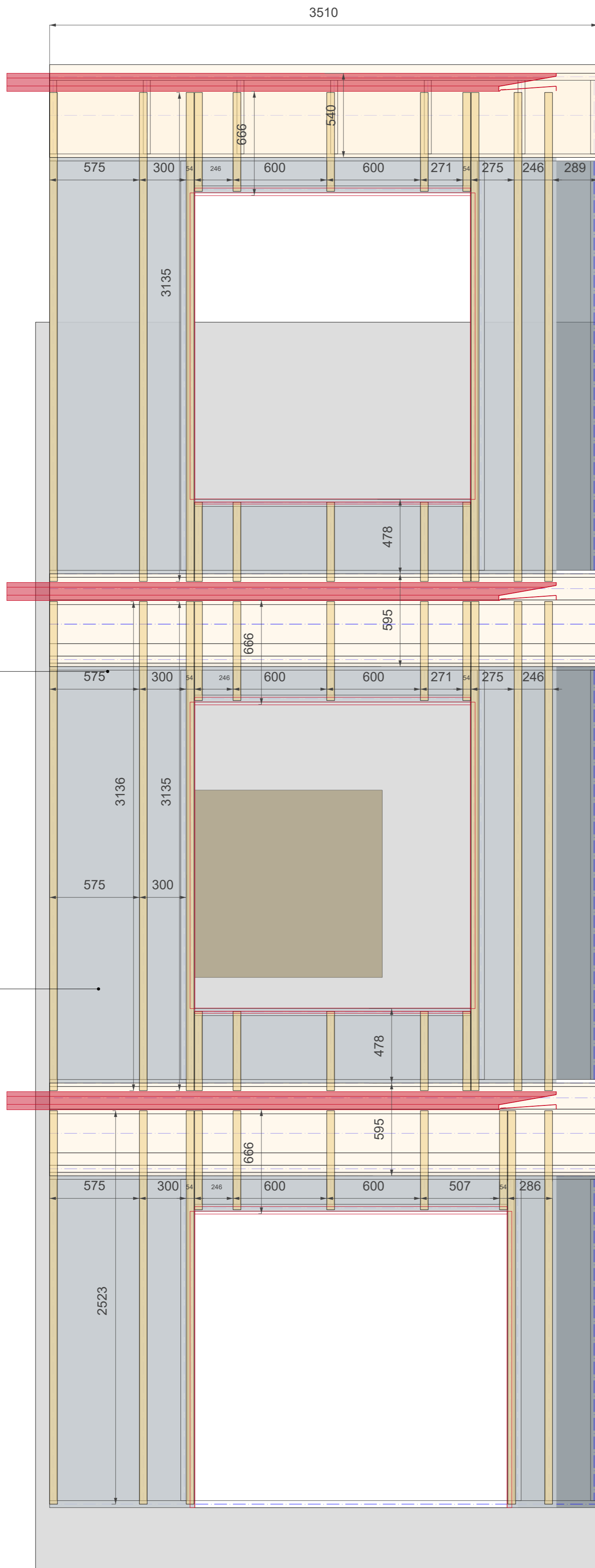
Cembrit Windstopper Basic  
i andet lag i etageadskillelsen

**Vindspærre**  
Huntton Vindtæt  
2x 12 mm  
Samlet i forbandt  
jf. tegninger  
Fæstnes med 840265 PZ-16  
klammer 64 mm,  
elgalvaniseret 12+  
Pladerne fæstnes med 100  
mm afstand langs  
pladekanterne og med 250  
mm afstand langs midten af  
pladerne for at sikre  
tilstrækkelig vindafstivning  
og tætning



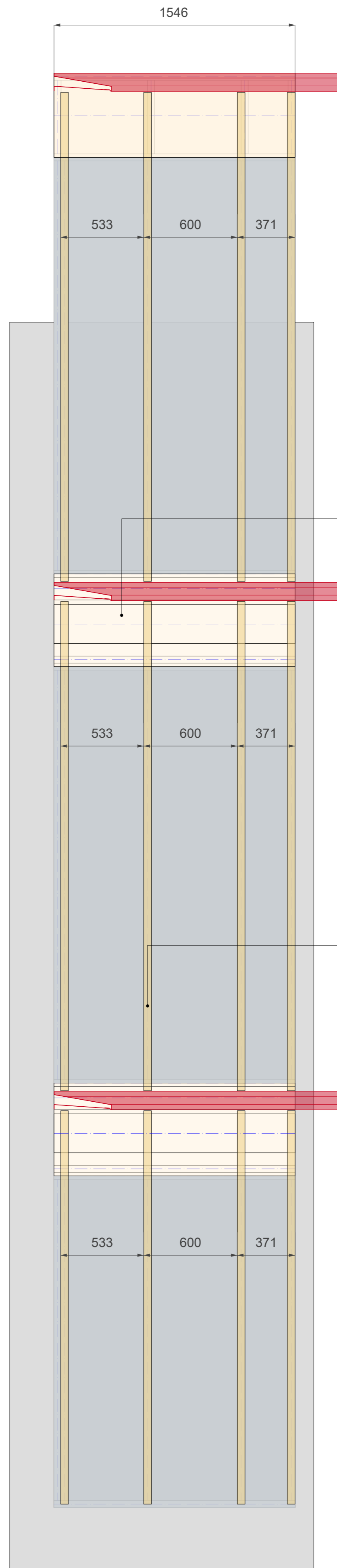


**DBI**  
**PGC10028A**  
*Chunyang Dong*  
Konstruktionstrå i  
Brandkammer  
skæres væk efter  
montage



**Membran**  
Føres kun til samling mellem cembrit og Vindtætt, samlinger tapes med Hunton Teson Vana 75 mm

**Membran**  
Traspir ALU FIRE A2 430  
Monteres med hæftelamper pr 200 langs kanter og langs afstandsliste.  
Samles med overlapp på 200 mm ved vandret montage, samlinger tapes med FRONT BAND UV 210  
Traspir Traspir ALU FIRE A2 430  
Første bane udrulles vandret på konstruktionen. Der monteres nedefra og opad.  
Monteres før afstandsliste.

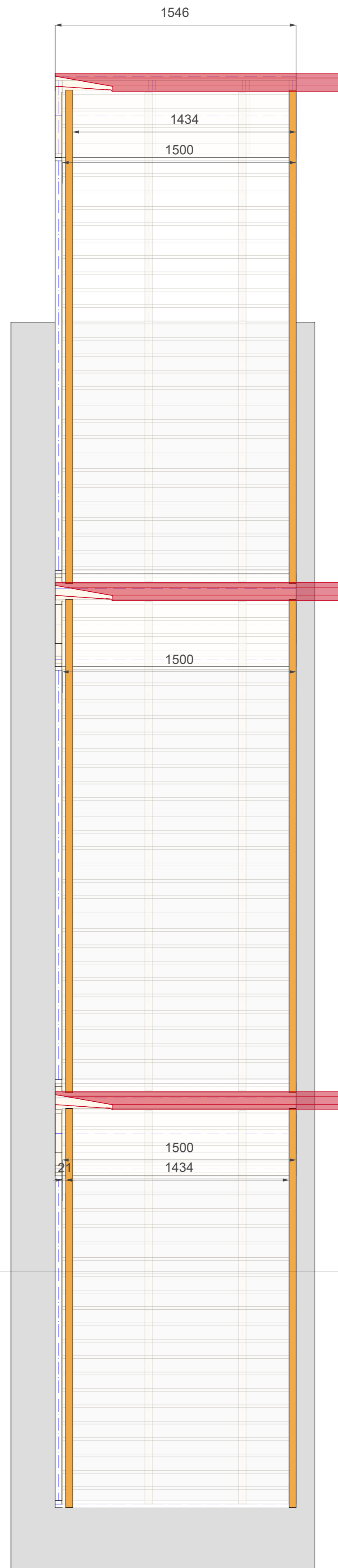
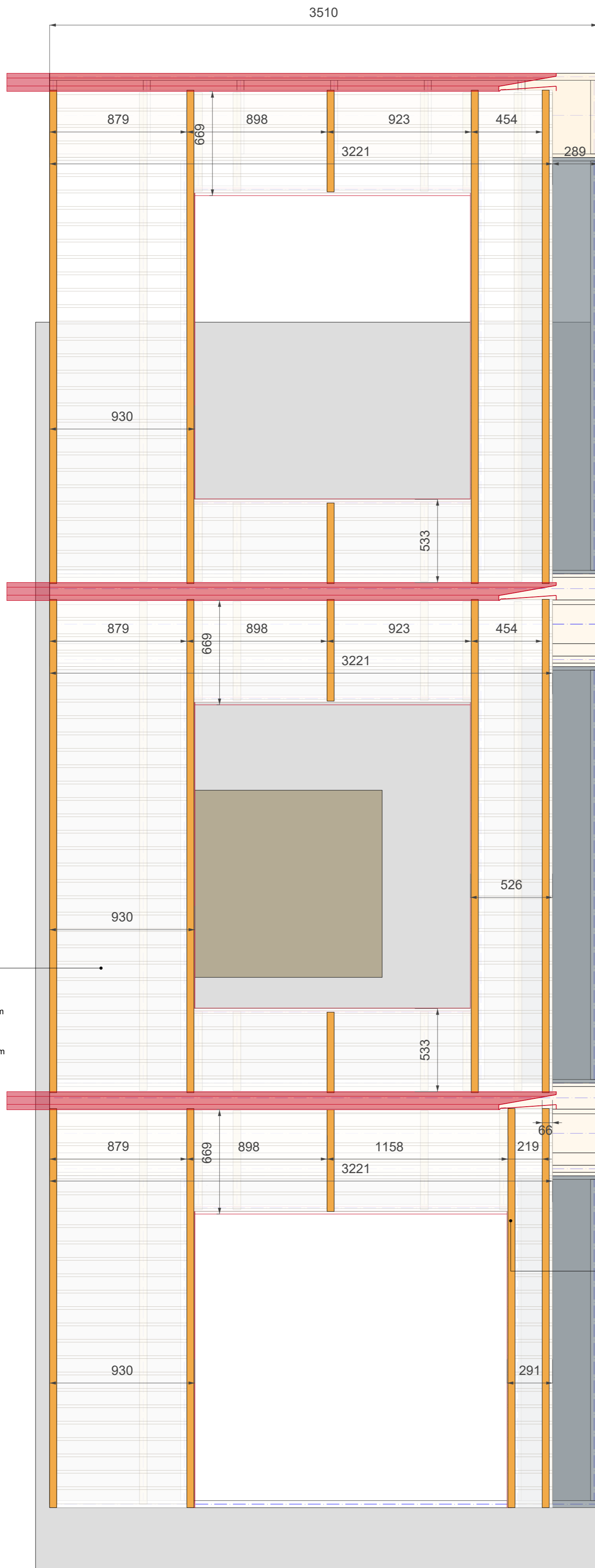


**Vindspærre i etageadskillelse**  
CEMBRIT WINDSTOPPER BASIC  
A2-s1, d0  
9MM  
Fastgøres med Tjep 2.5 x 65 mm

**Afstandsliste**  
Trykimprægneret 25X50 afstandsliste  
Monteres lodret pr 600 mm  
Fastgøres med Tjep ringsøm varmgalvaniseret 3,1X90



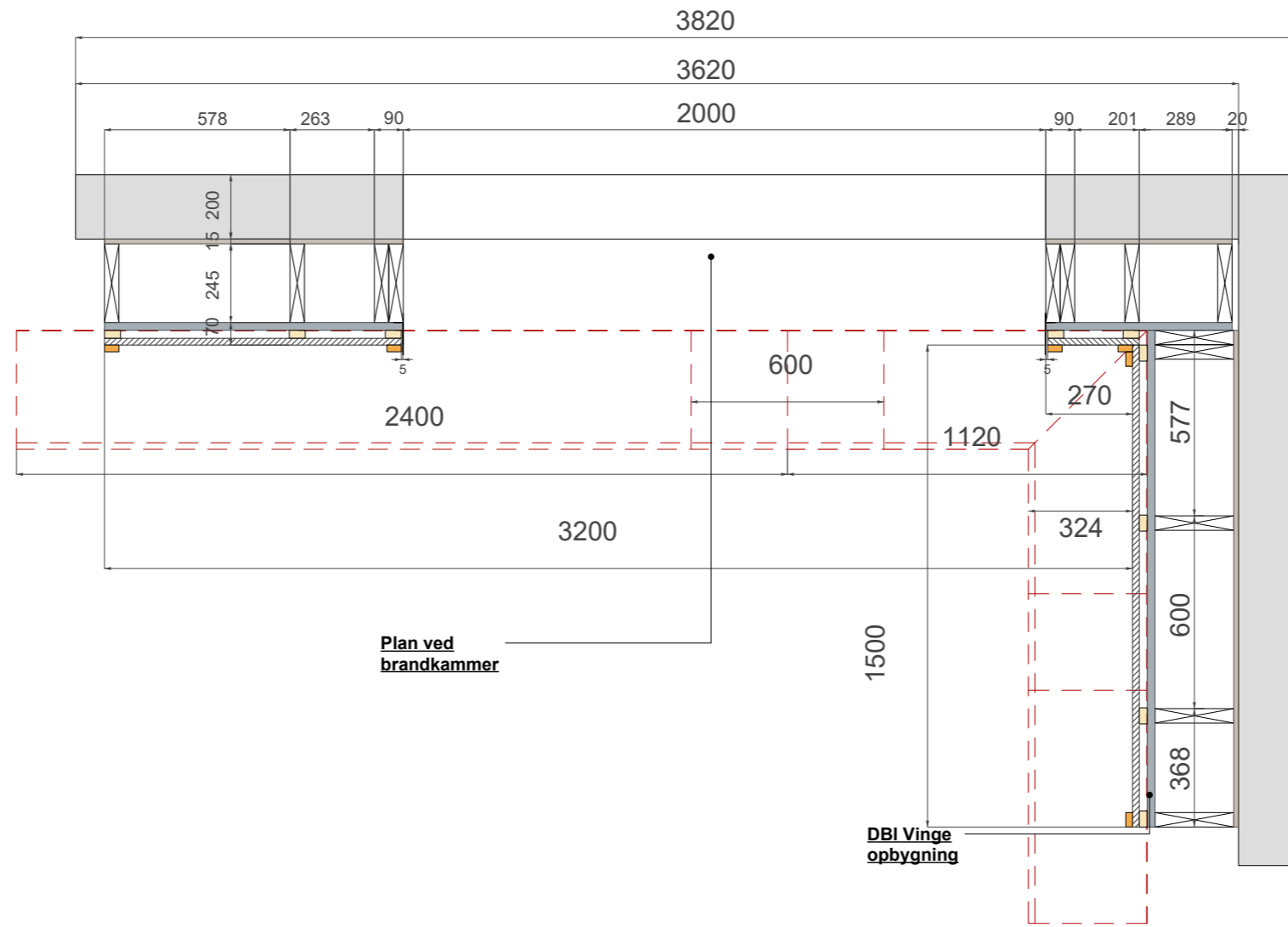




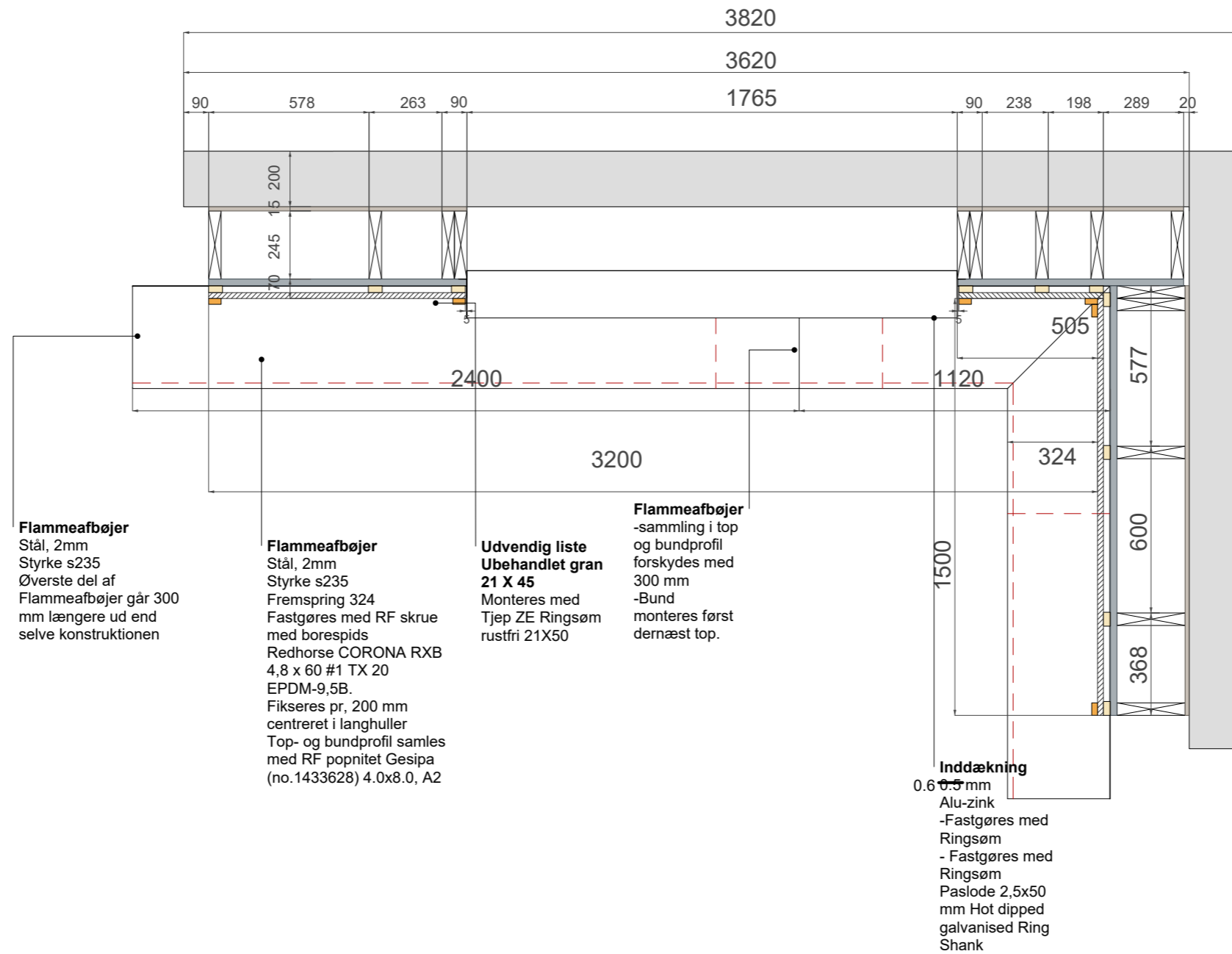
**Facadebeklædning**  
 (vandret træ / tung  
 beklædning) -Frølev  
 Gran 2685, 21x125mm  
 ubehandlet  
 DS-2, d2  
 Densitet: 400 kg/m3  
 Fasgøres med ringsøm  
 2,5x50 mm, rustfri A4  
 -Understøtning pr 600

Udvendig  
 vertikale lister  
 Ubehandlet gran  
 21x45 Profil: 4262  
 Fasgøres med  
 ringsøm  
 2,5x50 mm, rustfri  
 A4  
 Monteres jf  
 tegninger





Detalje plan brandkammer	
Skala: 1 : 20	
Format: A3	
Tegn.: RSM	Dato: 15.11.2023
Kontrol: SNI	
<b>CPH VILLAGE</b>	TU_ST4_No1



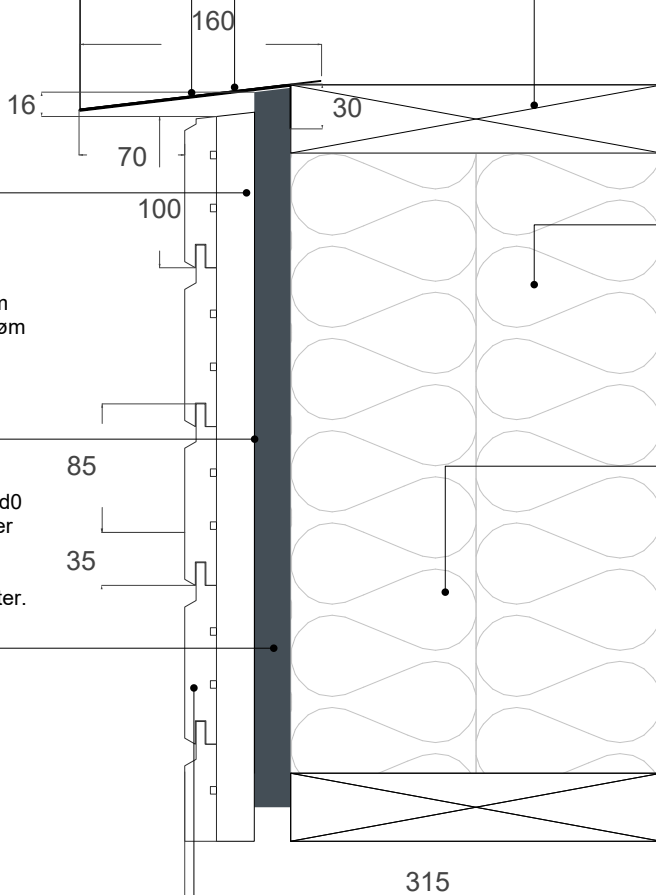
Detalje plan vindue over flammeafbøjer	
Stale: 1:20	
Format: A3	
Tegn.: RSM	Dato: 15.11.2023
Kontrol: SNI	
<b>CPH VILLAGE</b>	TU_ST4_No2

**Sålbænk**

- 0.6 mm Alu-zink  
 - Hældning 6 grader  
 - 70 mm fremspring fra  
 belædning

Samling tætnes med  
 Ms-fugemasse-Dana Lim  
 sealflex hybrid.

Træskelet  
 - Konstruktionstræ C24, 245x45

**Afstandsliste**

Trykimprægneret 25X50  
 afstandslister  
 Monteres lodret pr 600 mm  
 Fastgøres med Tjep ringsøm  
 varmgalvaniseret 3,1X90

**Isolering**  
 Hunton Nativo  
 2 x 120  
 Klasse E  
 Monteres forbandt

**Membran**

TRASPIR AVO 430 A-s1, d0  
 Hæftes med hæfte hammer  
 eller hæftepistol,  
 Tapes over samlinger.  
 Monteres efter afstandslister.

**Træskelet**  
 - Konstruktionstræ C24, 245x45  
 Monteres Lodret pr 600

**Vindspærre**

Hunton Vindtæt  
 2x 12 mm  
 Samlet i forbandt  
 jf. tegninger  
 Fæstnes med 840265  
 PZ-16 klammer 64 mm,  
 elgalvaniseret 12+

**Facadebeklædning** (vandret træ /  
 tung beklædning) -Frøslev Gran 3045,  
 21x125mm ubehandlet  
 DS-2,d2  
 Densitet: 400 kg/m3  
 Fastgøres med ringsøm, Tjep ZE  
 2,5x50 mm, rustfri A4  
 -Understøtning pr 600



Detalje sålbænk under vindue	
Skala: 1 : 5	
Format: A4	0 50 100 200
Tegn.: RSM	Dato: 15.11.2023
Kontrol: SNI	
<b>CPH VILLAGE</b> <small>Refshalevej 161F 1432 København K</small>	
TU_ST4_No3	

Konstruktionstræ C24, 45X145 mm.

**Isolering**  
Mineraluld  
Rockwool A-Batts 965x650x195  
Brandklasse A1  
Diffusionsmodstand: MU1

**Flammeafbøjer**

Stål, 2mm  
Styrke s235  
Fremspring 324  
Fastgøres med RF skrue med  
borespids  
Redhorse CORONA RXB 4,8 x  
60 #1 TX 20 EPDM-9,5B.  
Fikses pr, 200 mm centreret i  
langhuller  
Top- og bundprofil samles med  
RF popnitet Gesipa  
(no.1433628) 4.0x8.0, A2

Konstruktionstræ  
C24, 45 x 245.

**Samleplader**

Raw Krydsfinér  
Radiata Pine TG2  
15 mm  
D-s2, d0  
Fastgøres med  
NKT SPUN+  
CLIMATE-G3 UH TX20  
4.5x55

Konstruktionstræ  
C24, 45 x 70.

**Samleplader**

Raw Krydsfinér  
Radiata Pine TG2  
15 mm  
D-s2, d0  
Fastgøres med  
NKT SPUN+  
CLIMATE-G3 UH TX20  
4.5x55

Konstruktionstræ  
C24, 45 x 245.

**Afstandsliste**

Trykimprægneret  
25X50 afstandsliter  
Monteres lodret pr  
600 mm  
Fastgøres med  
Tjep ringsøm  
varmgalvaniseret  
3,1X90

595

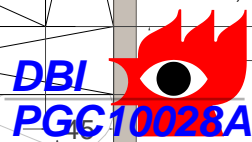
Konstruktionstræ  
C24, 45 x 195.

Konstruktionstræ  
C24, 45 x 100.

**Vindspærre i etageadskillelse**

CEMBRIT WINDSTOPPER BASIC  
A2-s1, d0  
9MM  
Fastgøres med Tjep 2.5 x 65 mm

Konstruktionstræ  
C24 45X70



*Chunyang Dong*

**Detalje flammeafbøjer**

Skala: 1 : 5  
Format: A4  
Tegn.: RSM  
Kontrol: SNI  
Dato: 15.11.2023  
CPH VILLAGE  
1522 København K  
TU\_ST4\_No4

### Membran

Traspir ALU FIRE A2 430  
Monteres med hæfteklammer, samles med overlap på 200 mm ved vandret montage. samlinger tapes med FRONT BAND UV 210  
Traspir Traspir ALU FIRE A2 430  
Første bane udrulles vandret på konstruktionen. Der monteres nedefra og opad.

### Vindspærre

Hunton Vindtæt  
2x 12 mm  
Samlet i forbandt jf. tegninger  
Fæstnes med 840265 PZ-16 klammer 64 mm, elgalvaniseret 12+

### Afstandsliste

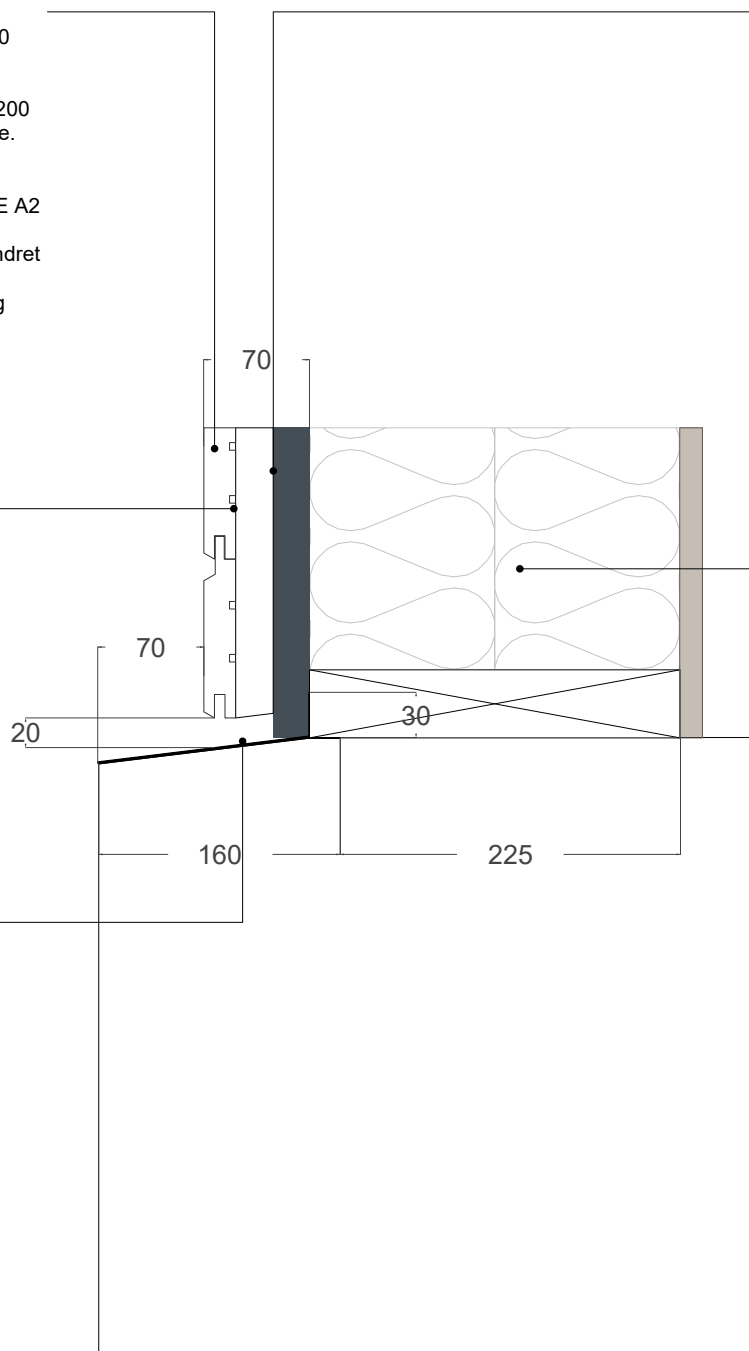
25X50  
Monteres lodret pr 600 mm  
Fastgøres med Tjep ringsøm varmgalvaniseret 3,1X90

### Isolering

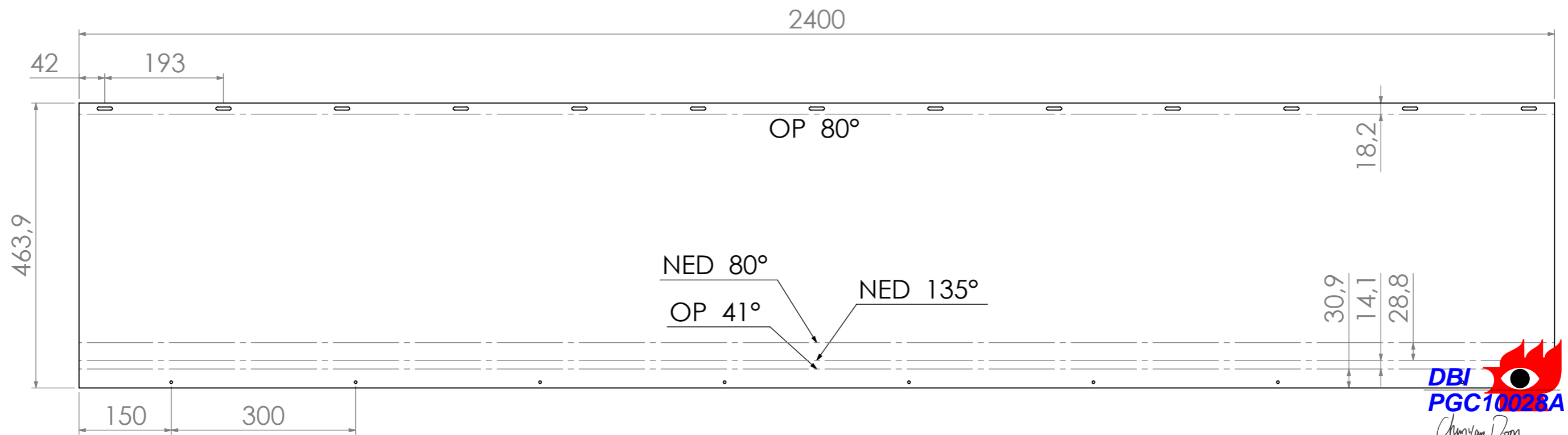
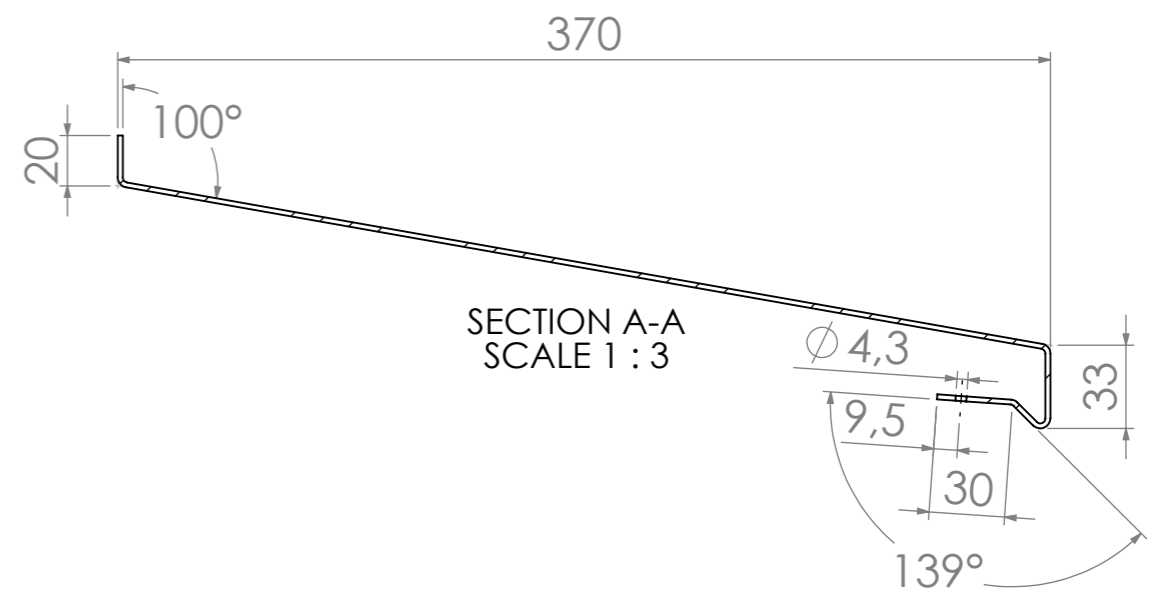
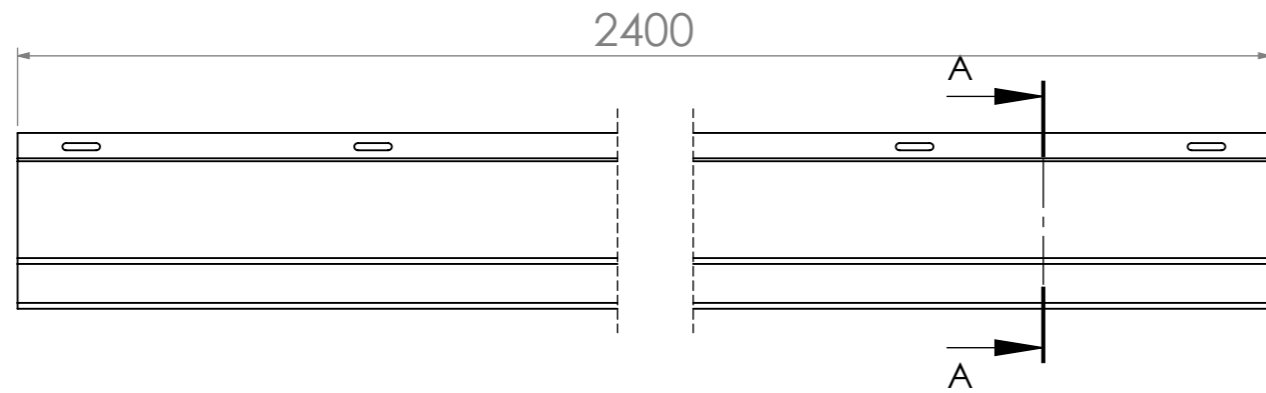
Hunton Nativo  
2 x 120  
Klasse E  
Monteres i forbandt

### Inddækning over vindue

0.6-0.5 mm Alu-Zink  
Hældning 7 grader  
Fastgøres med ringsøm-paslode 2.5 x 50 70 mm fremspring fra beklædning



Detalje sålbænk over vindue	
Skala: 1 : 5	
Format: A4	
Tegn.: RSM	Dato: 15.11.2023
Kontrol: SNI	
Titeltegning:	
<b>CPH VILLAGE</b>	1522 København N
	TU_ST4_NoS



**DBI**  
**PGC10028A**  
*Chunyang Dong*

OV: R1  
UV: Spor 12-30°  
BT: 0,5 mm

NAME	DATE
DRAWN <b>casper</b>	11-10-2023

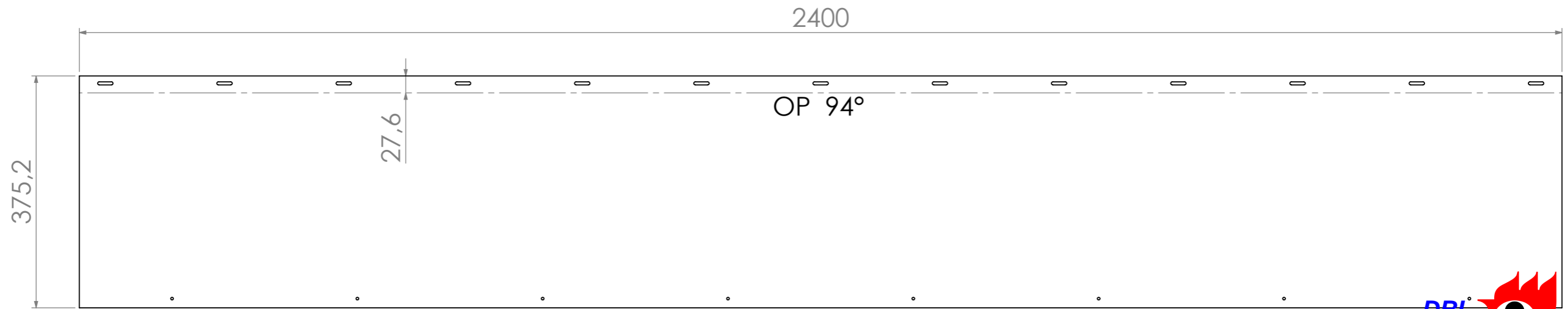
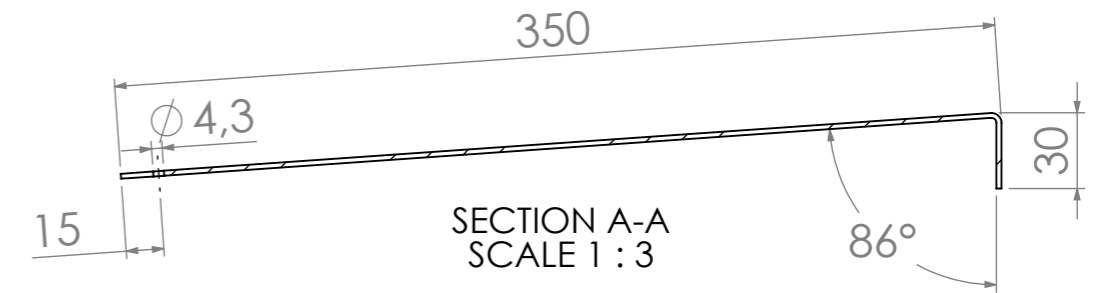
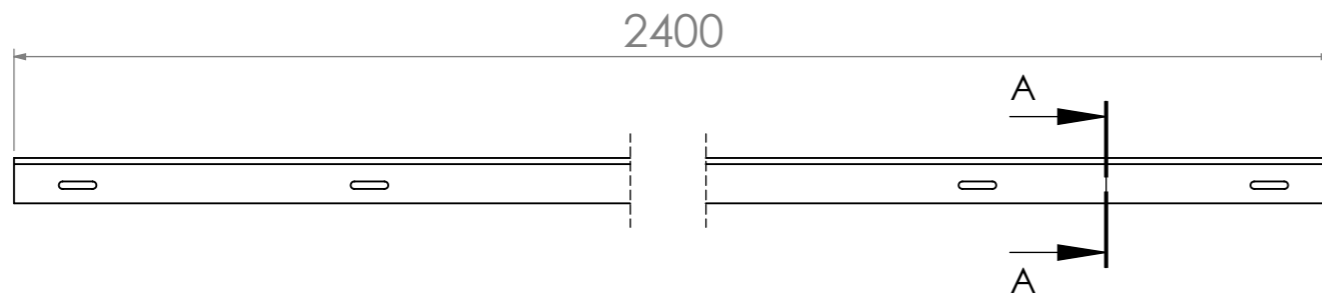


Folder name:  
X:\CPH Village Holding\  
Customer:  
CPH Village  
TITLE:  
Topprofil, Lg. 2400

Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.

MATERIAL:  
1.0330 (DC01 (SPO))  
WEIGHT: 17522.12

DWG NO. **GKB-116644** REVISION  
SCALE:1:5 A3 SHEET 1 OF 1



**DBI**  
**PGC10028A**  
*Chunyang Dong*

OV: R1  
UV: Spor 12-30°  
BT: 0,5 mm

NAME	DATE
DRAWN <b>casper</b>	11-10-2023



MATERIAL:  
1.0330 (DC01 (SPO))

WEIGHT: 14086.44

Folder name:  
X:\CPH Village Holding\

Customer:  
CPH Village

TITLE:  
Bundprofil, 2 mm plade

DWG NO. **GKB-116645**

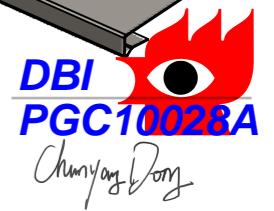
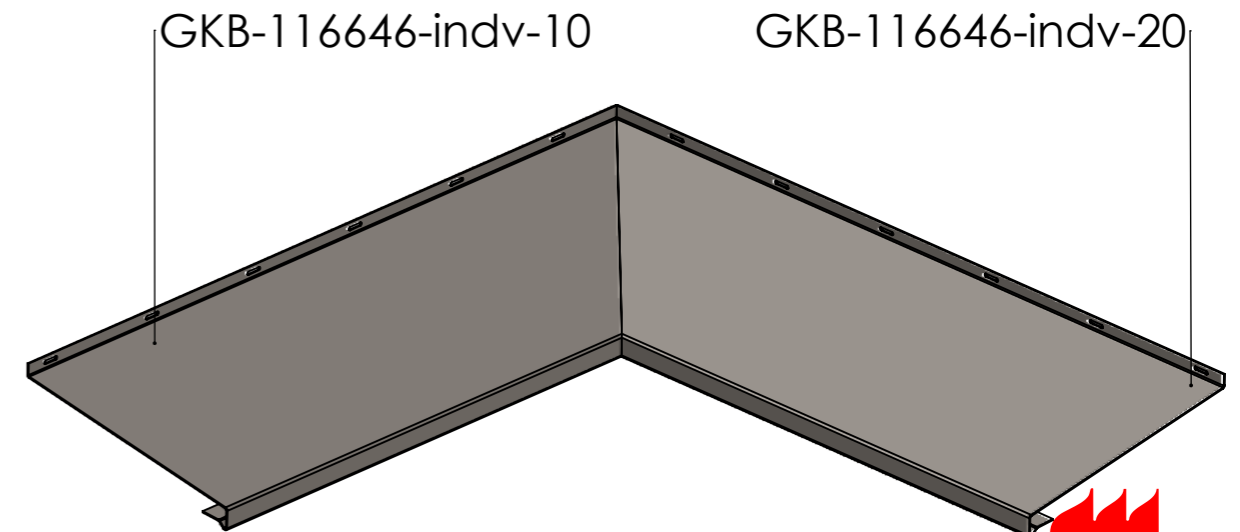
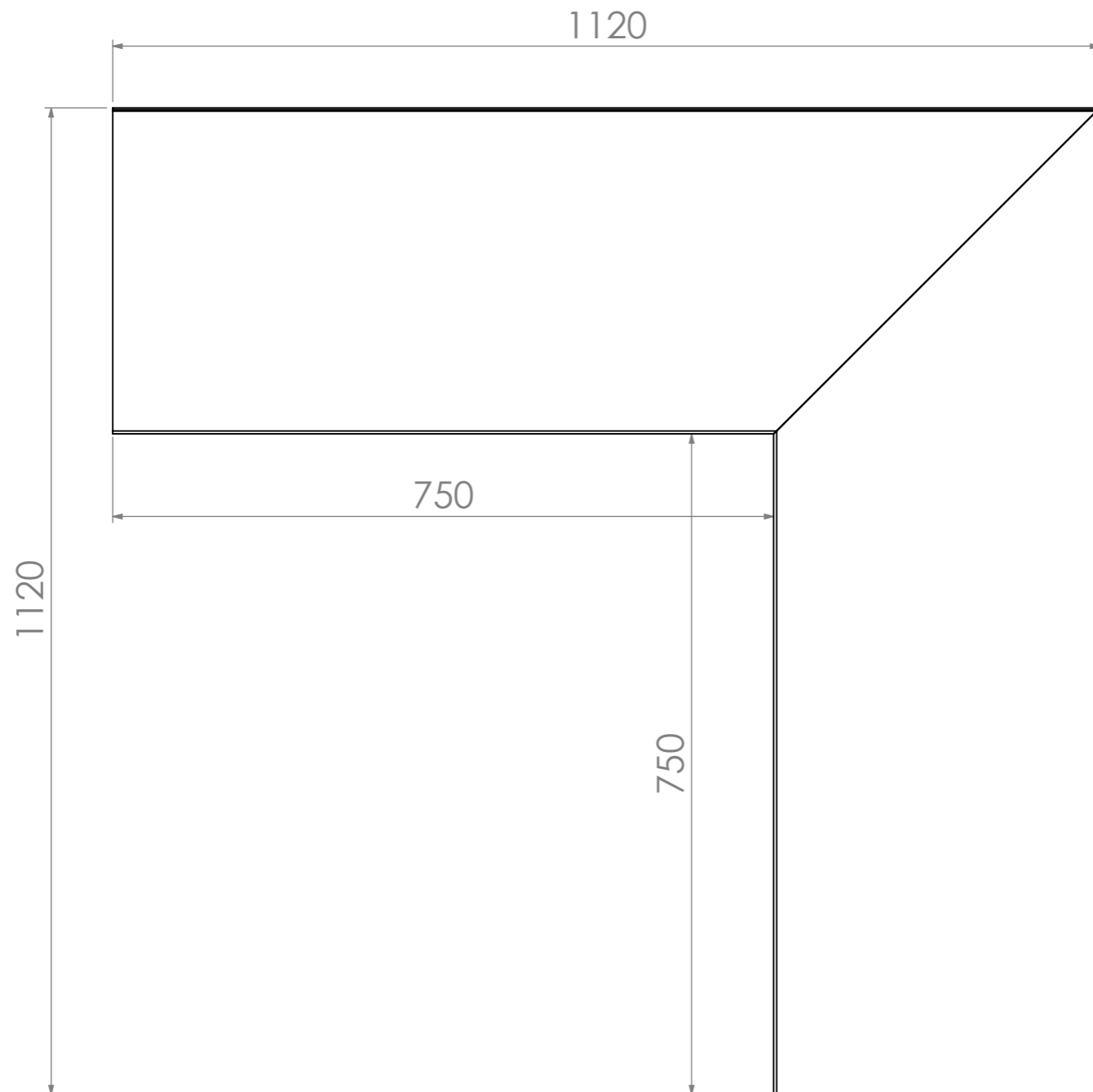
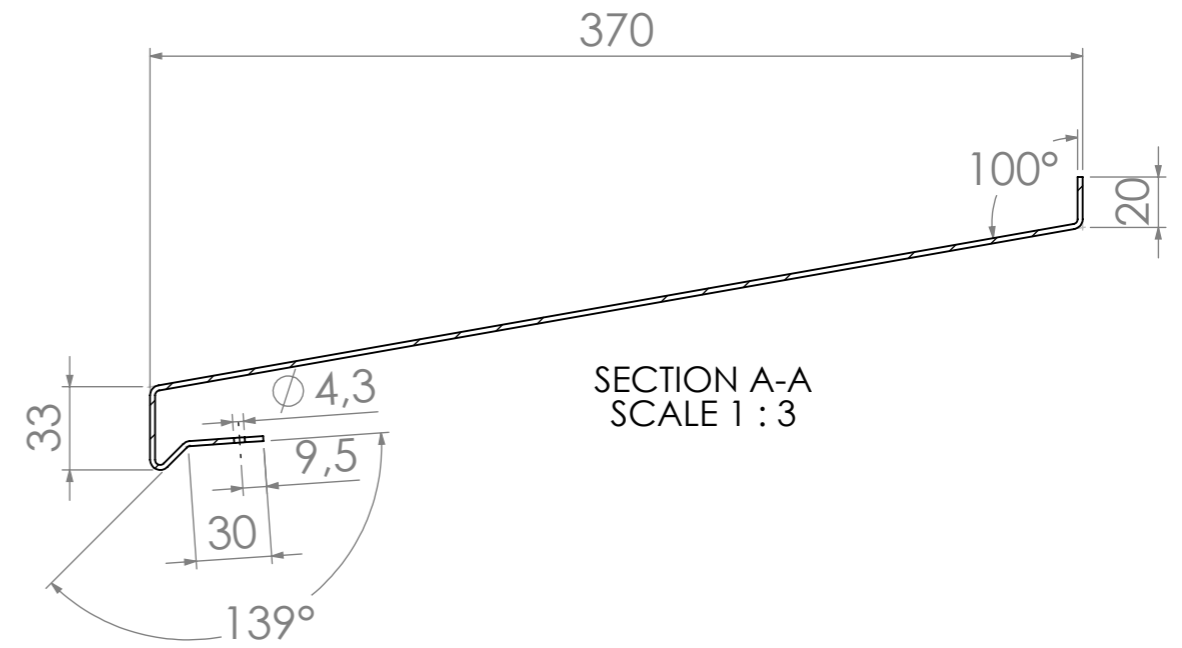
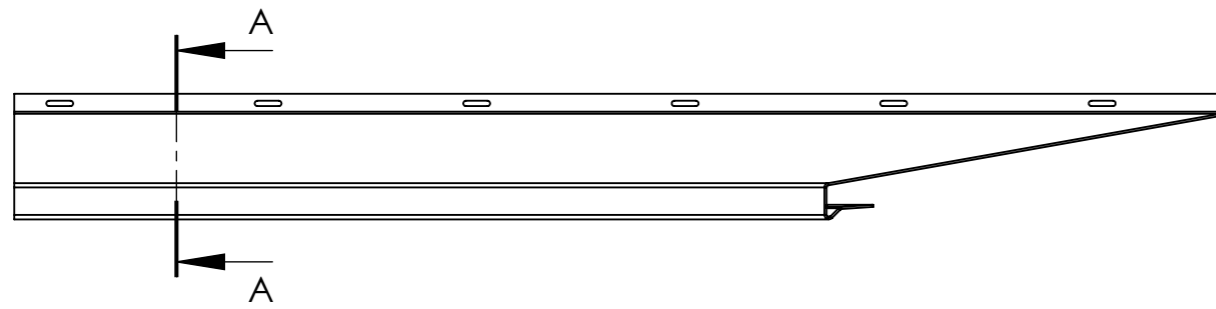
SCALE:1:5


A3 SHEET 1 OF 1

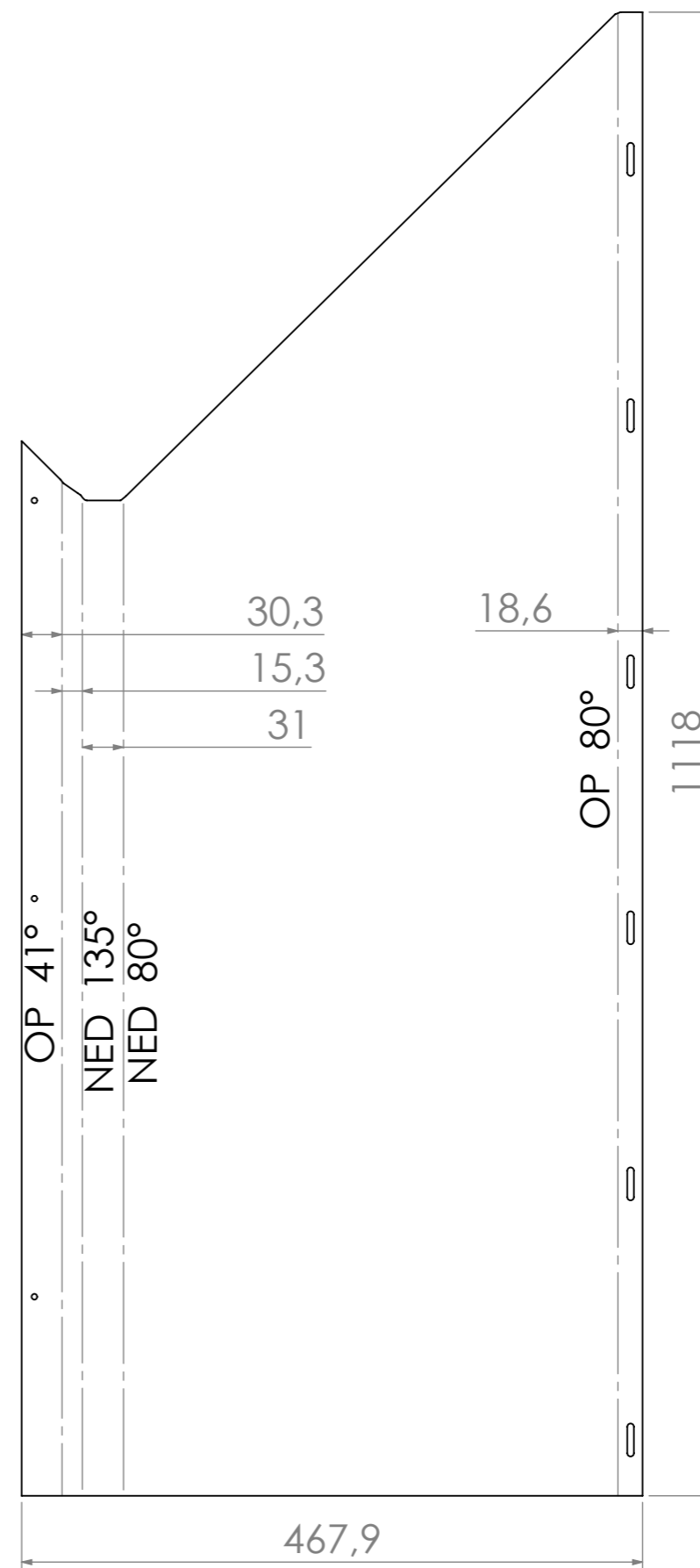
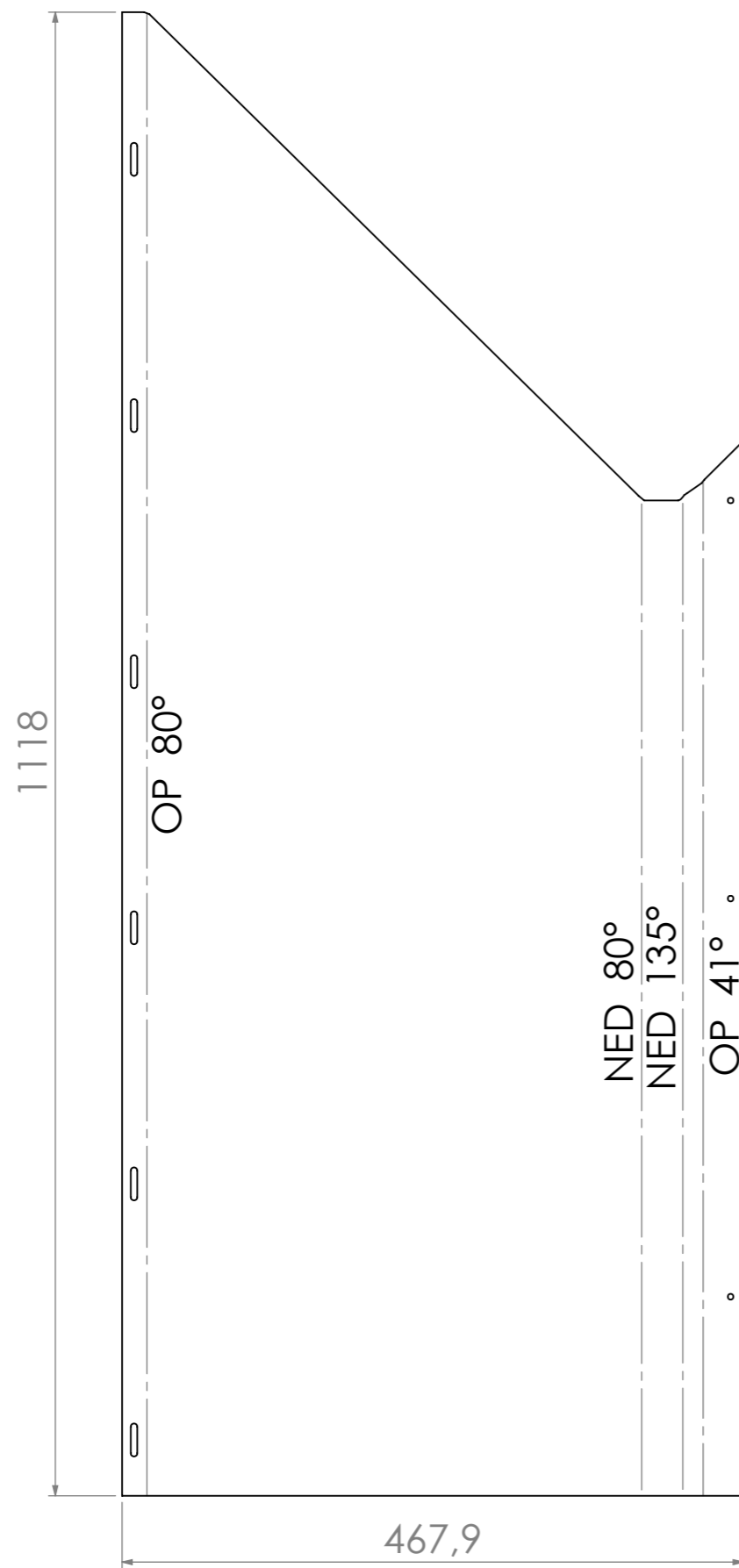
REVISION

Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.





NAME	DATE		Folder name:	X:\CPH Village Holding\	
DRAWN <b>casper</b>	13-10-2023		Customer:	CPH Village	
			TITLE:	Indv. Hj. Top, 2 mm plade	
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m) Alle mål er i millimeter, medmindre andet er angivet. Tegningen må ikke skaleres.			MATERIAL:	1.0330 (DC01 (SPO))	DWG NO. <b>GKB-116646-indv</b>
			WEIGHT: 13341.41	SCALE: 1:7	REVISION
			A3 SHEET 1 OF 2		



NAME	DATE
DRAWN casper	13-10-2023



Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.

MATERIAL:  
1.0330 (DC01 (SPO))

WEIGHT: 13331,14

Folder name:  
X:\CPH Village Holding\  
Customer:  
CPH Village

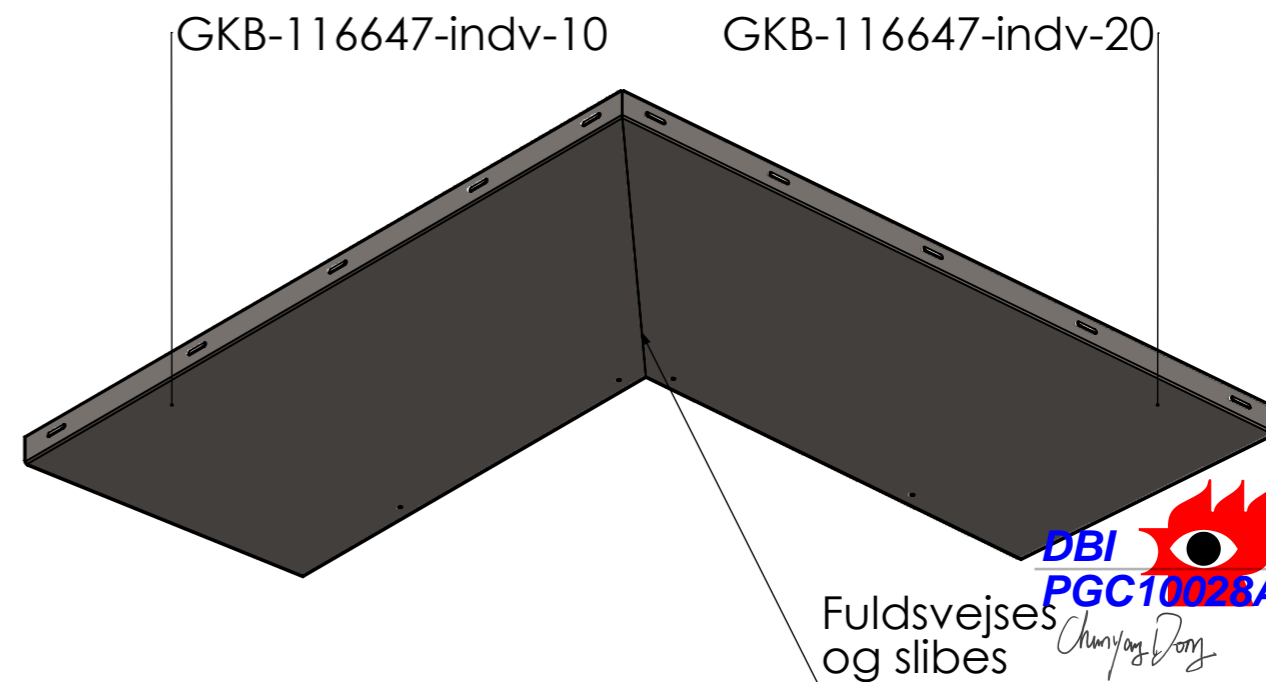
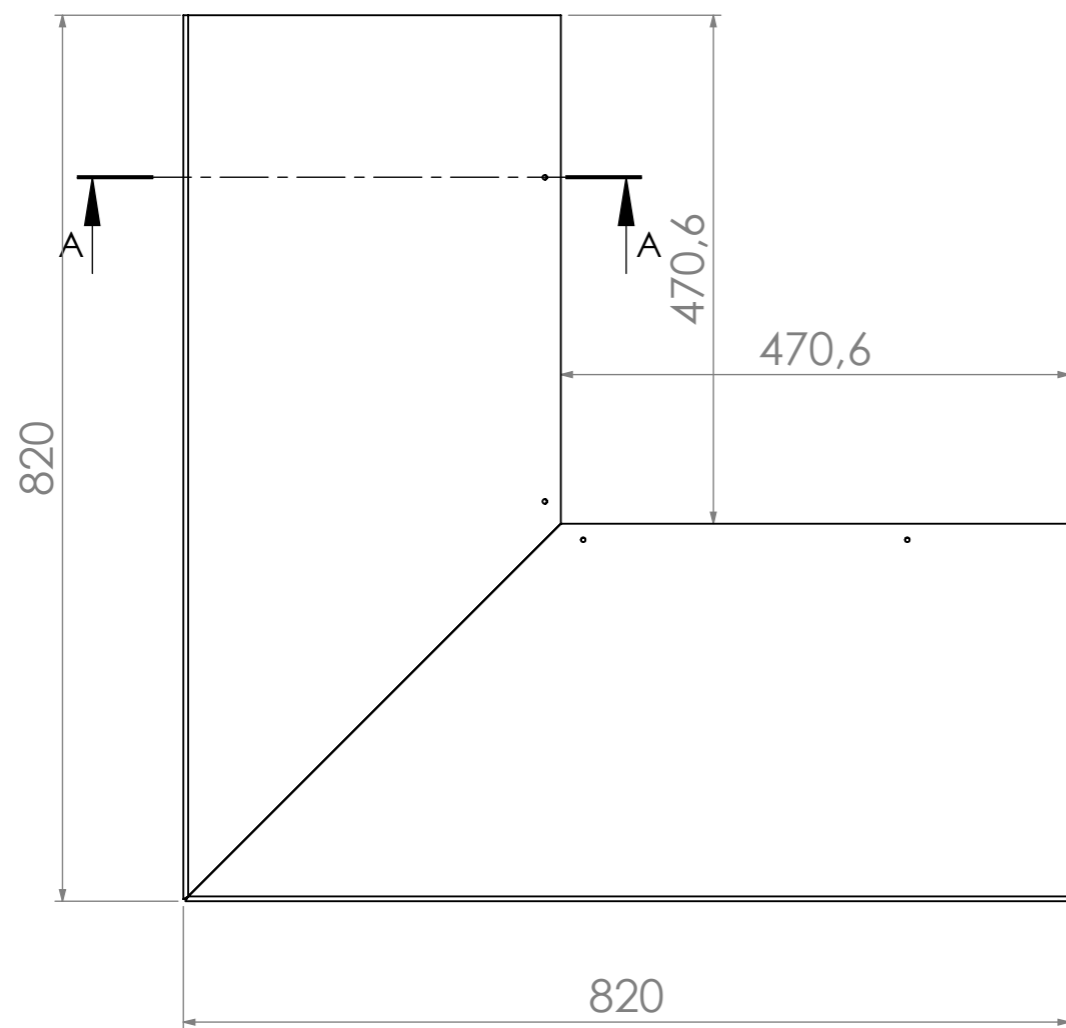
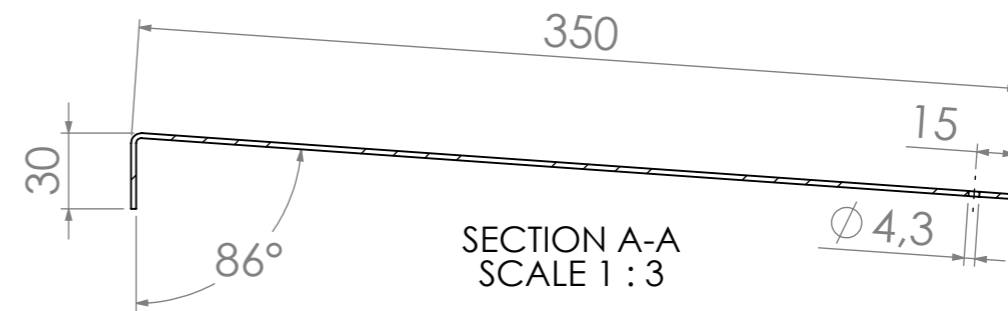
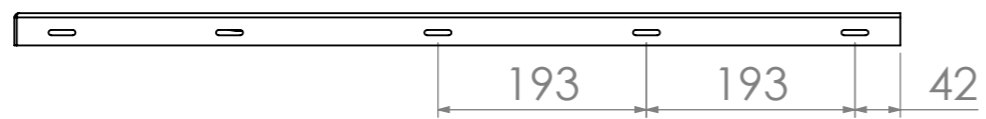
TITLE:  
Indv. Hj. Top, 2 mm plade

DWG NO. GKB-116646-indv

REVISION

SCALE:1:7

A3 SHEET 2 OF 2



NAME	DATE
casper	13-10-2023

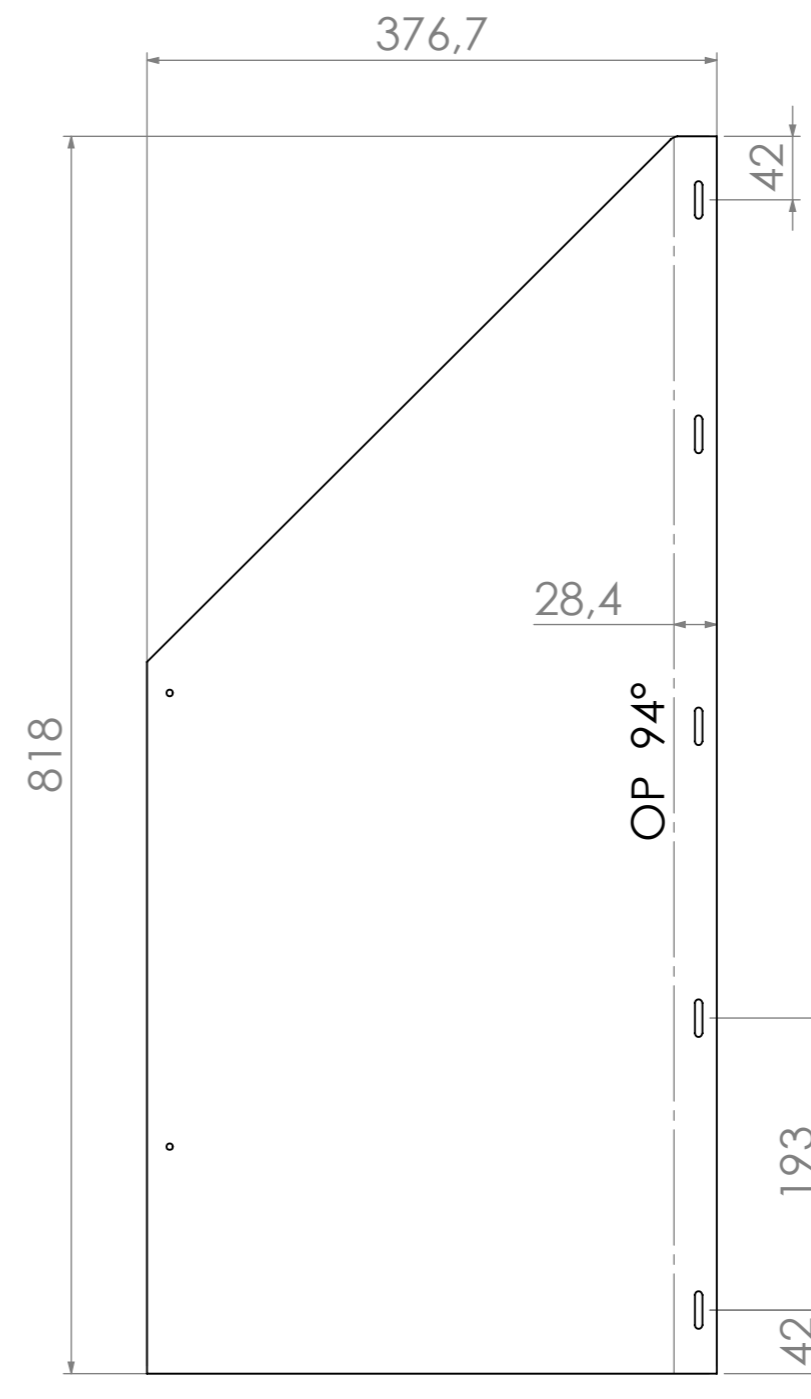
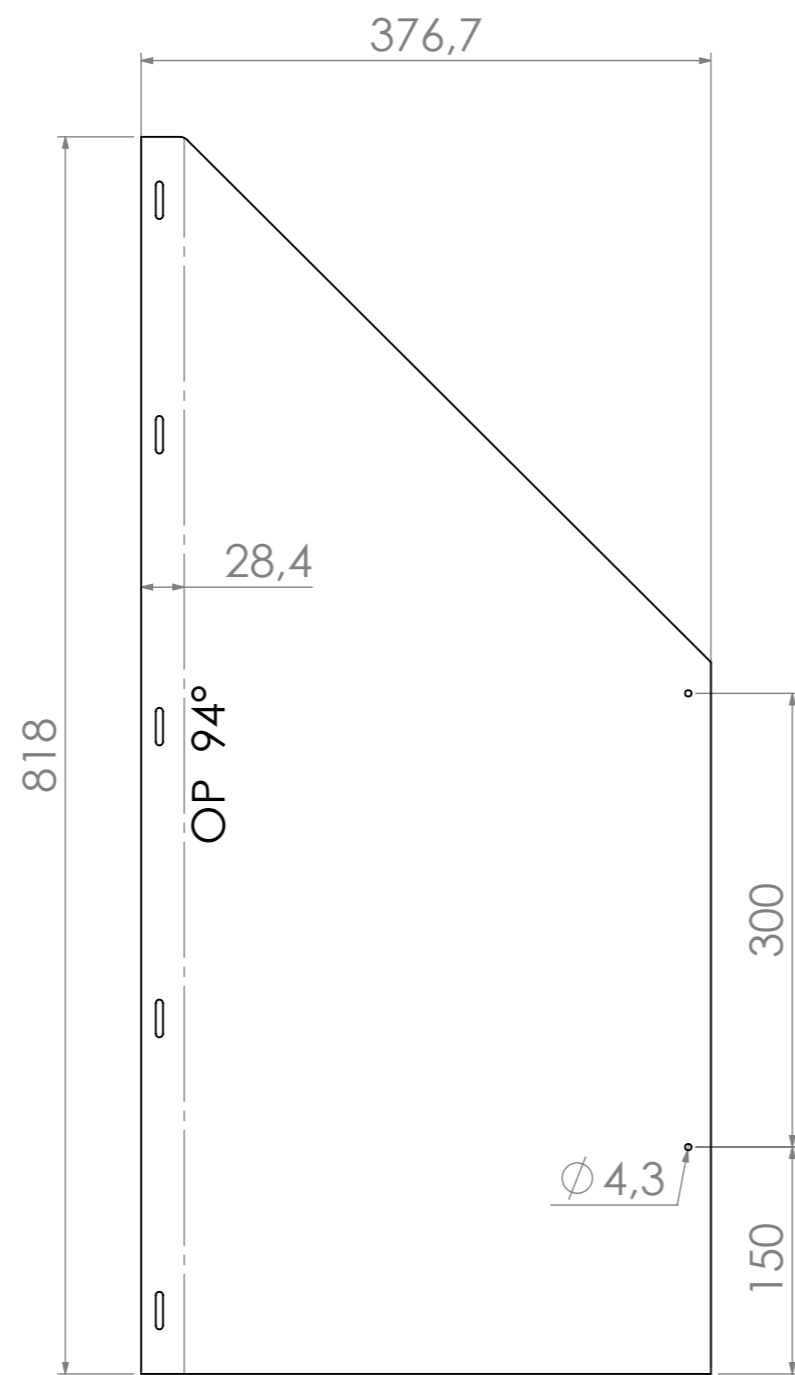


Folder name: X:\CPH Village Holding\
Customer: CPH Village
TITLE: Indv. Hj. Bund, 2 mm plade


Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.

MATERIAL: 1.0330 (DC01 (SPO))
WEIGHT: 7712.77

DWG NO. GKB-116647-indv	REVISION
SCALE: 1:7	A3 SHEET 1 OF 2



OV: R1  
 UV: Spor 12-30°  
 BT: 0,5 mm

<table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>casper</td> <td>13-10-2023</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		NAME	DATE	casper	13-10-2023								Folder name: X:\CPH Village Holding\ Customer: CPH Village TITLE: Indv. Hj. Bund, 2 mm plade	
NAME	DATE													
casper	13-10-2023													
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m) Alle mål er i millimeter, medmindre andet er angivet. Tegningen må ikke skaleres.		MATERIAL: 1.0330 (DC01 (SPO)) WEIGHT: 7709.97	DWG NO. <b>GKB-116647-indv</b>	REVISION										
SCALE:1:5			A3 SHEET 2 OF 2											