

# Test Report

## EU facade test 5

<b>Name of sponsor:</b>	Distreal NSF III LOG Køge 3 ApS		
<b>Product name:</b>	EU facade test draft 6		
<b>File no.:</b>	PGC10030A	<b>Revision no.:</b>	0
<b>Test date:</b>	06-03-2024	<b>Date:</b>	18-04-2024
<b>Pages:</b>	12	<b>Encl.:</b>	96
<b>Ref:</b>	CHD / MMN		

## Client information

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Client: Distreal NSF III LOG Køge 3 ApS

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2150 Nordhavn

Denmark

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## Date of test

The test was conducted on 06-03-2024.

## 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	ESR_K01_H4_EXX_N3010	28-11-2023	Mock-up facade mod gård til Rig
Drawing	ESR_K01_H4_EXX_N3011	28-11-2023	Trærammer
Drawing	ESR_K01_H4_EXX_N3012	28-11-2023	Gips på trærammer
Drawing	ESR_K01_H4_EXX_N3013	28-11-2023	Gips og flammeafbøjer og inddækninger brandkammer
Drawing	ESR_K01_H4_EXX_N3014	28-11-2023	Underlag for beklædninger (Gård)
Drawing	ESR_K01_H5_EXX_N3010	28-11-2023	Detalje over brandkammer (lodret snit)
Drawing	ESR_K01_H5_EXX_N3011	28-11-2023	Snit i horisontal samling i kassetter
Drawing	ESR_K01_H5_EXX_N3012	28-11-2023	Detalje over brandkammer (vandret snit)
Drawing	GKB-117517-1 1 of 2	27-11-2023	Lodret søjle, Stue, 1 mm plade
Drawing	GKB-117517-1 2 of 2	27-11-2023	Lodret søjle, Stue, 1 mm plade
Drawing	GKB-117517-2 1 of 2	27-11-2023	Lodret søjle, 1./2. sal, 1 mm plade

Drawing	GKB-117517-2 2 of 2	27-11-2023	Lodret søjle, 1./2. sal, 1 mm plade
Drawing	GKB-117517-3 1 of 2	27-11-2023	Lodret søjle, 3. sal, 1 mm plade
Drawing	GKB-117517-3 2 of 2	27-11-2023	Lodret søjle, 3. sal, 1 mm plade
Drawing	GKB-117517-4	27-11-2023	Laske, Lodrette søjler, 1 mm plade
Drawing	GKB-117517-6 1 of 2	27-11-2023	Brystplade, 1 mm plade
Drawing	GKB-117517-6 2 of 2	27-11-2023	Brystplade, 1 mm plade
Drawing	GKB-117517-7 1 of 4	27-11-2023	Indd. vindue, 1 mm plade
Drawing	GKB-117517-7 2 of 4	27-11-2023	Indd. vindue, 1 mm plade
Drawing	GKB-117517-7 3 of 4	27-11-2023	Indd. vindue, 1 mm plade
Drawing	GKB-117517-7 4 of 4	27-11-2023	Indd. vindue, 1 mm plade
Drawing	GKB-117517-8 1 of 3	27-11-2023	Indd. Indgang, 1 mm plade
Drawing	GKB-117517-8 2 of 3	27-11-2023	Indd. Indgang, 1 mm plade
Drawing	GKB-117517-8 3 of 3	27-11-2023	Indd. Indgang, 1 mm plade
Drawing	GKB-117517-9	27-11-2023	1 mm plade
Drawing	GKB-117518-1 1 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-1 2 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-1 3 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-1 4 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-1 5 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-1 6 of 6	27-11-2023	Flammeafbøjer, 2 mm plade
Drawing	GKB-117518-2	27-11-2023	Lokumsbræt, Lodrette søjler, 2 mm plade

The documentation is supplied by the sponsor, and it is 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.

Test specimen			
External measures:	Height main: 9235 mm	Width main: 3180 mm	Thickness: 276 mm With flame deflector: 531.5 mm

The test specimen was a ventilated façade. On the main façade, the prefabricated walls were mounted on aerated concrete frame as the first layer. The vertical steel projection, horizontal flame deflector and pressure impregnated formwork were mounted on the prefabricated walls. The wooden cladding was mounted on the formwork as the surface of the façade. The façade wing consisted of 100 mm thick aerated concrete.

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

First Layer: The first layer consisted of prefabricated walls. The frame and the studs of the walls were built from untreated construction wood with a strength class of C24. The dimensions of the construction

wood were 45 x 220 mm with a nominal density of 480 kg/m<sup>3</sup>. The construction wood was fixed to each other in all ends with 2 nails designated Paslode 2.5 x 50 hot-dip galvanized ring shank. The c/c distance between each vertical stud is shown on drawing ESR\_K01\_H4\_EXX\_N3011.

One layer of 0.2 mm PE vaper and one layer of Isover Insulsafe Blanket was mounted on the back side of the prefabricated walls. Both layers were mounted on the construction wood C24 with TJEP BE-80 8 mm staples with a c/c distance of approx. 20 mm. The tape designated Storm yellow liner with a width of 50 mm, was used on the overlap of the PE vaper at the 4 edges of the prefabricated wall to stick the PE vaper on to the construction wood.

#### Plasterboard in the first layer

One layer of 2400 x 1200 x 9.5 mm Siniat weather defence plasterboard, with a nominal density of 860 kg/m<sup>3</sup>, was mounted on the front side of prefabricated wall. The weather defence board was mounted on the C24 construction wood with the screws designated Spit P-screw HWS 4.2 x 42 with a c/c distance of 180 mm. Two pieces of tape, designated Paroc XST 042 had a width of 50 mm. An overlap was applied on the joints of 2 plasterboards, which resulted in a total width of 80 mm on the joints. The vertical tapes were covered on the top of the horizontal tapes at the cross board joint sections.

#### Insulation in the first layer

Insulation designated Isover Insulsafe loose wool L 34, with a nominal density of 30 kg/m<sup>3</sup>, was blown in the prefabricated walls frame between Isover Insulsafe Blanket and the weather defence boards.

There were 4 walls in total, with a total size of 3180 x 229.5 mm (width x thickness). The height of each wall was 2680 mm, 3190 mm, 3190 mm, and 145 mm from the bottom to the top. They were mounted with a 10 mm horizontal gap in between. The 4 walls protruded approximately 1245 mm from the top edge of aerated concrete façade rig. The Isover Tät with the width of 95 mm and thickness of 20 mm was placed in the entire horizontal gap between 2 walls. A Z-profile with a size of 20 x 10 x 20 mm, had a thickness on 0.55 mm, and was mounted at the lower edge of 2 x 3190 mm walls. One side of the Z-profile was fixed between the construction wood and weather defence boards, the other side covered the upper edge of the below wall.

See drawing ESR\_K01\_H4\_EXX\_N3012.

**Fixing of first layer:** The prefabricated walls were fixed to the aerated concrete frame with steel angles designated Paslode 90 x 90 x 65 mm, with screws designated Paslode 5.0 x 40 mm. The 4 screws were mounted in each angle connected to the wood. The Paslode angles was fixed to the aerated concrete with one screw designated Spit ACS CSK  $\varnothing$  8 x 90 mm. The bottom wall was put on 2 ACW 155 Simpson strong-tie console brackets, which were fixed to the aerated concrete frame with 4 screws designated Spit ACS CSK  $\varnothing$  10 x 160 mm. One screw designated Paslode 5.0 x 40 mm was used to connect the wall and each console bracket.

**Horizontal flame deflector:** The 3 horizontal flame deflectors were mounted on the prefabricated walls with a c/c distance of 3190 mm. The flame deflectors were protruding approx. 500 mm from the prefabricated wall edge. See drawing ESR\_K01\_H4\_EXX\_N3013.

The detailed information of how to connect the different part of flame deflector is shown on drawing no. ESR\_K01\_H5\_EXX\_N3010. The detailed information of different components is shown in drawing no. GKB-117518-1 sheet 1 to 6.

The screw designated RedHorse CORONA™ RXB 4.8 X 60 were used to fix the flame deflector to the prefabricated wall with a c/c distance of approx. 200 mm.

The screw designated DS stålprofil LP 4.8 x 23 Boreskrue were used to fix the steel components of the flame deflector with a c/c distance of approx. 200 mm. See drawing ESR\_K01\_H5\_EXX\_N3010.

**Vertical steel column:** The 2 Vertical steel projections were mounted on the prefabricated walls and connected with the horizontal flame deflectors.

Two 1 mm C-profiles were mounted face to each other on a vertical direction with a distance of 275 mm, they were fixed to the wall with screws designated Red Horse corona RXB 4.8 x 60 with a c/c distance of 600 mm. Detailed information of the vertical column is shown on drawing No. GKB-117517-3.

The 1 mm DS steel Lokumsbræts were mounted horizontally on C-profiles with 2 screws designated DS stålprofil LP 4.8 x 23 Boreskrue on each side. The width of the steel profile called Lokumsbræt was 272 mm, the height was 45 mm with a hole of Ø222 in the middle. The c/c distance of two pieces of Lokumsbræts was 900 mm. Detailed information of the profile called Lokumsbræt is shown on drawing No. GKB-117518-2.

The 1 mm cassette profiles were mounted on the C-profiles with one screw designated DS stålprofil LP 4.8 x 23 Boreskrue with a c/c distance of 300 mm on each side. Detailed information of the cassette is shown on drawing No. GKB-117517-9.

See drawing ESR\_K01\_H5\_EXX\_N3012.

**Formwork:** The pressure impregnated formwork designated Frøslev 25 x 50 mm nominal density of 450 Kg/m<sup>3</sup> was mounted on the prefabricated wall as the substrate for the cladding.

908 mm length formworks were mounted horizontally at the right side of first vertical steel projection with a c/c distance of 450 mm. 485 mm length formworks were mounted under each horizontal flame deflectors with a c/c distance of approx. 490 mm. Two adjustment pieces designated Harpun Justerbrik Reglar 45 size 80 x 45 x 3 mm, were put between the horizontal formwork and the prefabricated wall.

See drawing ESR\_K01\_H4\_EXX\_N3014.

**Fixing of formwork:** Nails designated TJEP HDG GR 3.1 x 90 mm ring, were used to fix the formwork on the prefabricated wall. On horizontal formworks two nails were used where the nails were mounted approx. 80 mm from the end. On the vertical formworks, the c/c distance between the nails was 600 mm.

**Finishing layer (cladding):** The wood cladding designated Moelven Finnforest ThermoWood Profile 3301, size 21 x 118 mm with a groove and tongue principle and a nominal density of 435 Kg/m<sup>3</sup> were mounted on top of the formwork. Vertical claddings were mounted on the horizontal formworks, horizontal claddings were mounted on the vertical formworks.

The Nordland snow catch pipes Ø32 pipes were put between the wall and the claddings on the top and bottom of the horizontal flame deflector.

See drawing ESR\_K01\_H5\_EXX\_N3010.

**Fixing of cladding:** The cladding was fixed with one TJEP stainless ZE 2.5 x 50 mm ring, on the formwork with a c/c distance of 450 mm.

**Window and Fire chamber details:** The 1 mm flashing were mounted around the windows and fire chamber as the top bottom and side profile. The flashing was mounted between the construction wood and the weather defence of the prefabricated wall, with one nail designated Paslode 2.5 x 50 mm which had a c/c distance

of 180 mm. The profiles were protruded 10 mm from the cladding and 55 mm from the back of the 45 x 95 mm construction wood.

Detailed information of the flashing shows in drawing No. GKB-117517-8.

**Gap insulation:** The 10 mm gap between the main façade and wing, and the gap between the aerated concrete and prefabricated wall, were filled with Rockwool insulation.

**Sealant and ceramic wool:** Between the prefabricated wall and the aerated concrete in the fire chamber, ceramic wool was used to close the gap. A fire sealant was used to close off the airgap.

### Measured by DBI

Product		Moelven Finnforest ThermoWood Profile 3301	Siniat weather defence board	25 x 50 mm formwork	Construction wood C24 95 mm	Isover InsulSAFE loose wool
Density	kg/m <sup>3</sup>	441	914	473	512	32
Thickness	mm	21	9.9	25	46	
Moisture content	%	7.3	0.53	17.6	16.5	1
Organic content	%					0.9
Sampling method		Extra material	Extra material	Extra material	Extra material	Extra material
Drying temperature	°C	105	55	105	105	105

## Test conditions

### Conditioning

The materials for the test specimen were delivered on the 26-02-2024 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 01-03-2024.

### 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. 11 °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 - 1.3. 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-I.2.4, I.3.1-I.3.4. 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.2.4, I.3.1-I.3.4. 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 was made from type-k thermocouples wire with 0.5 mm 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.

## Test results

Duration of the test was 22 minutes.

### Measurements

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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	Location 1 - Flux

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 8.0 and 8.1	Location 1,2 - Plate TC 1.4m and 2.5m height Plate TC.1 Location 1 Plate TC.2 Location 2
Enclosures 9.0 and 9.1	Location 2 - 5 m from facade 4.5 m height.
Enclosures 10.0 and 10.1	Location 1 - TC on PlateTC
Enclosures 11.0 and 11.1	Location 1 - TC on Flux Flux.TC.2 located 3 m from fire chamber
Enclosures 12.0 and 12.1	Location 2 - TC TC.1 Location 1 TC.2 Location 2
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 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

## Visual observations:

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Time / Minutes	Visual observations:
0	Test commences
1	The flame reaches above first flame deflector (In the middle of the first window)
1	Cladding between first flame deflector and fire chamber started burning
3	Flames had reached the upper edge of the first window
4	Flames had reached below the second flame deflector
4	Cladding below the second flame deflector started burning
5	Smoke began to develop from the gap between the steel column and the façade wing near second flame deflector
6	A 10 cm x 10 cm piece dropped on the floor and continued to burn (more than 2 minutes)
7	A lot of sparks were flying up from the test specimen
7	Second flame deflector started burning
8	Flames had reached above second flame deflector
11	Flames had reached to the bottom of second flame deflector
13	Some pieces 10 x 10 cm began to drop on the floor
15	Entire cladding between first and second flame deflector was burning
17	More pieces 10 x 10 cm continued dropping on the floor
18	More pieces 20 x 20 cm continued dropping on the floor
18	The cladding on the top of the second window decolorated
19	A few more pieces dropped on the floor
20	More pieces dropped on the floor
20	Charring appeared under the third flame deflector
21	Flames had reached above the third flame deflector
21	Cladding between third flame deflector and second window started burning
22	Test stop

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The photographs on the attached photo sheets show the test specimen during the mounting, testing and after the test. See the description in 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	No failure
	Horizontal fire spread	10 minutes
	Burning parts	6 minutes
<b>Falling parts – Level 0</b>	Falling parts – (Level 0)	6 minutes
	Falling parts – (Level 1)	No measurement
<b>Falling parts – Level 1</b>	Falling parts – (Level 1)	No measurement
	Falling parts – (Level 2)	No measurement

The test was terminated after 22 minutes due to the fire had spread to the second window.

## 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

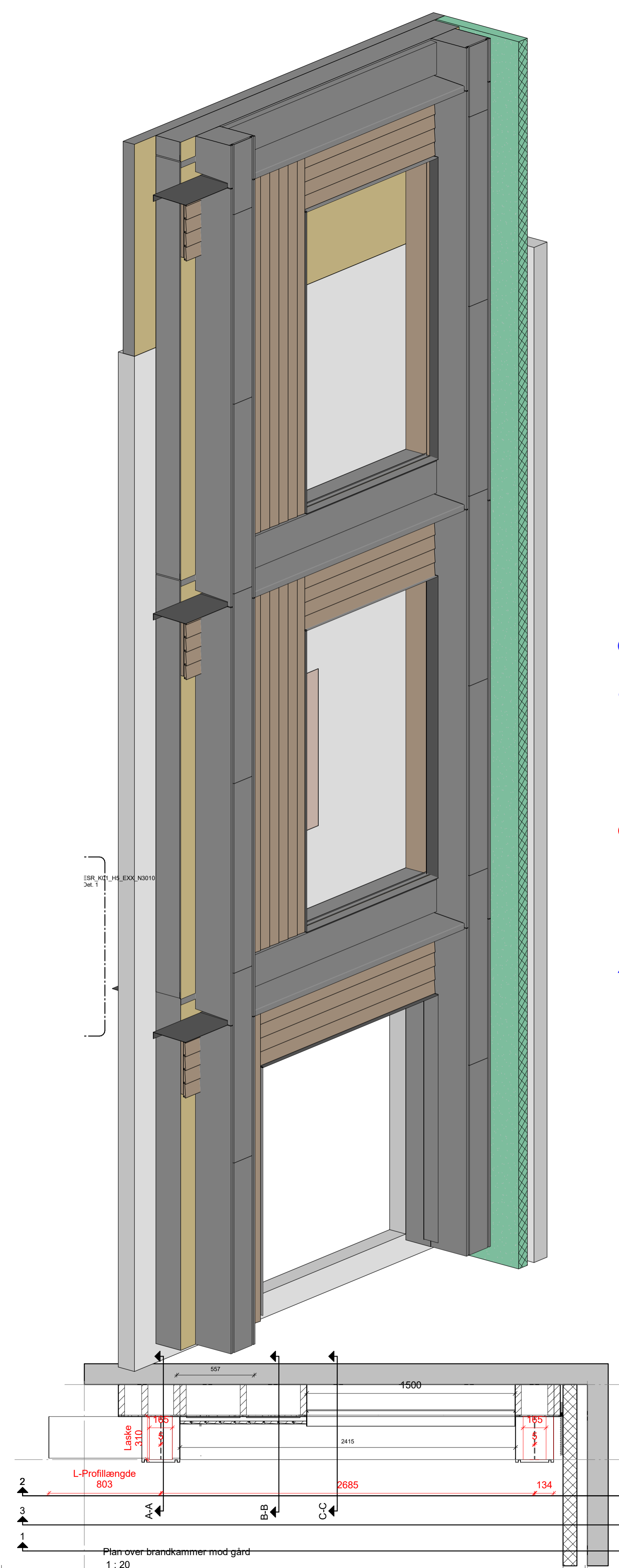
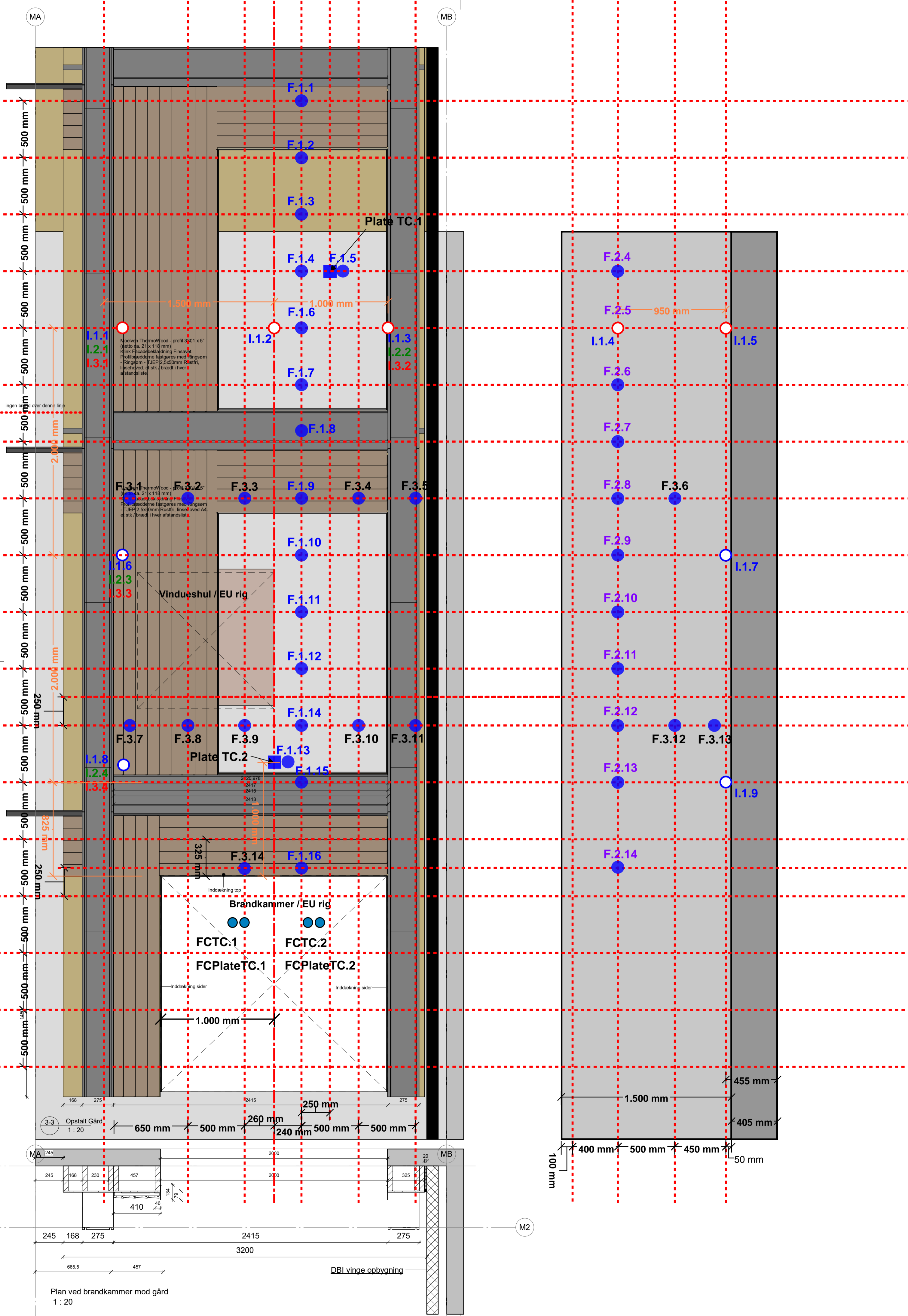


**Mads Møllgren**  
Resistance to Fire Engineer

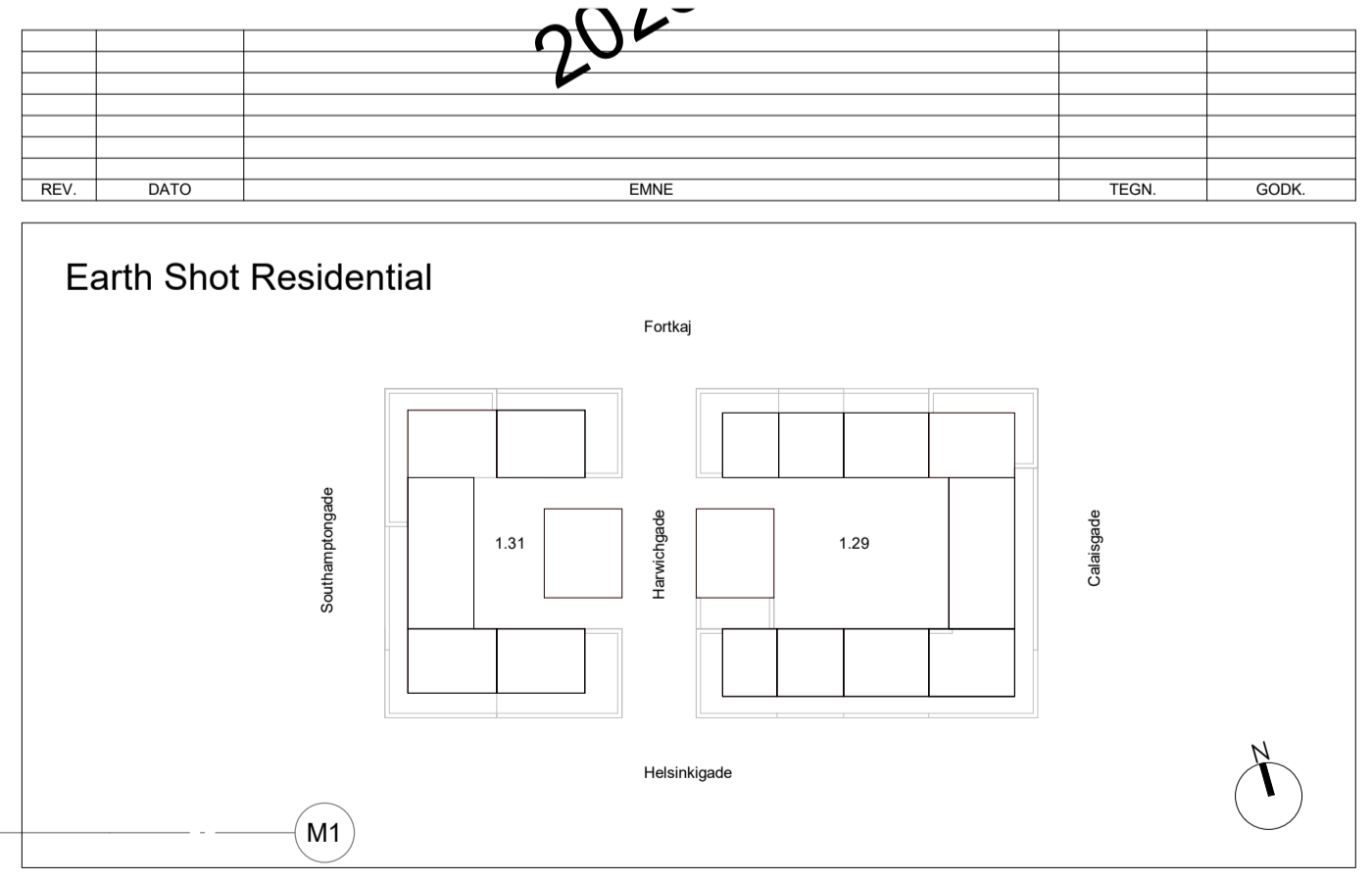
### Distreal NSF III LOG Køge 3 ApS

c/o NREP A/S  
Southamptongade 4  
2150 Nordhavn  
Denmark

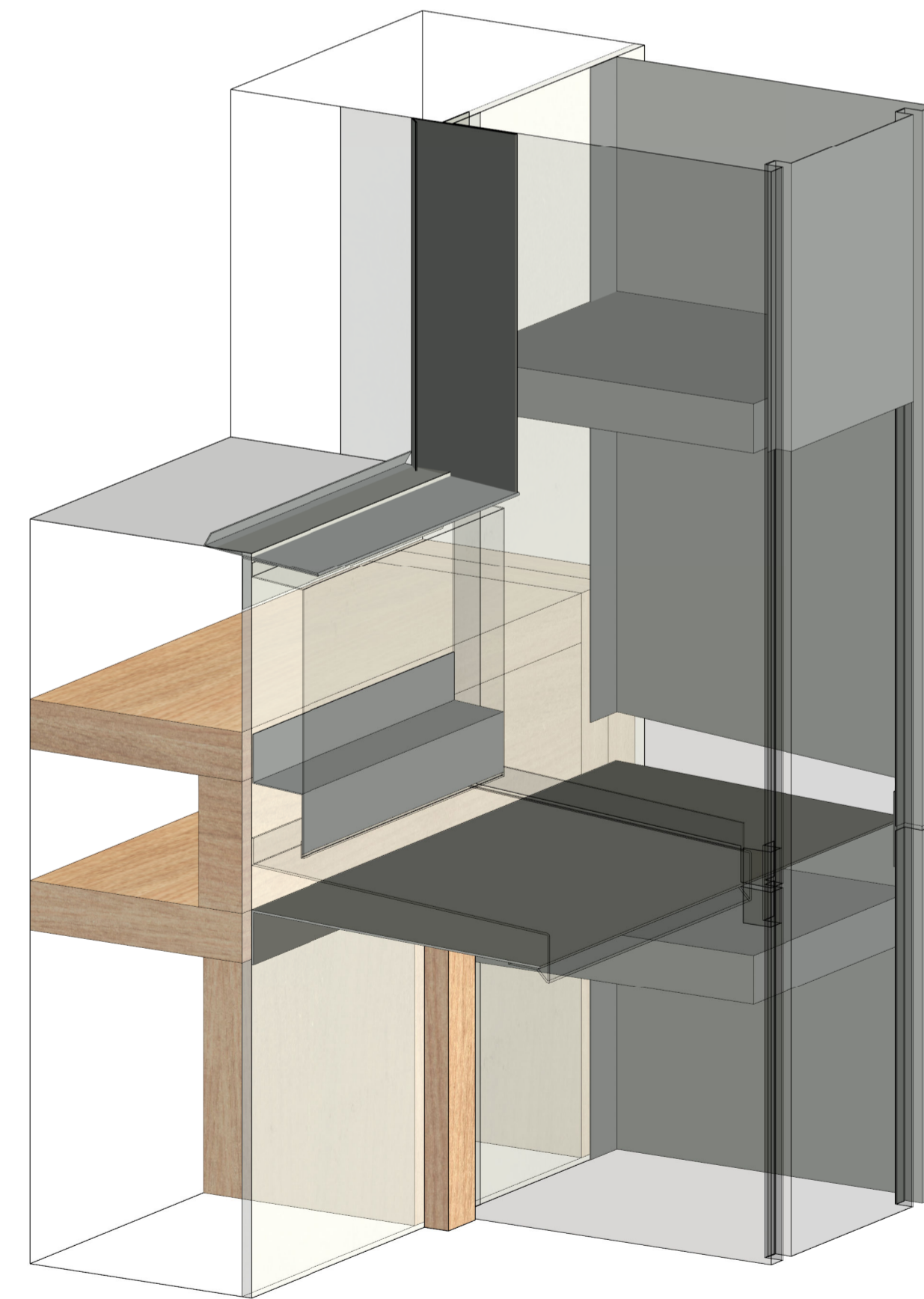
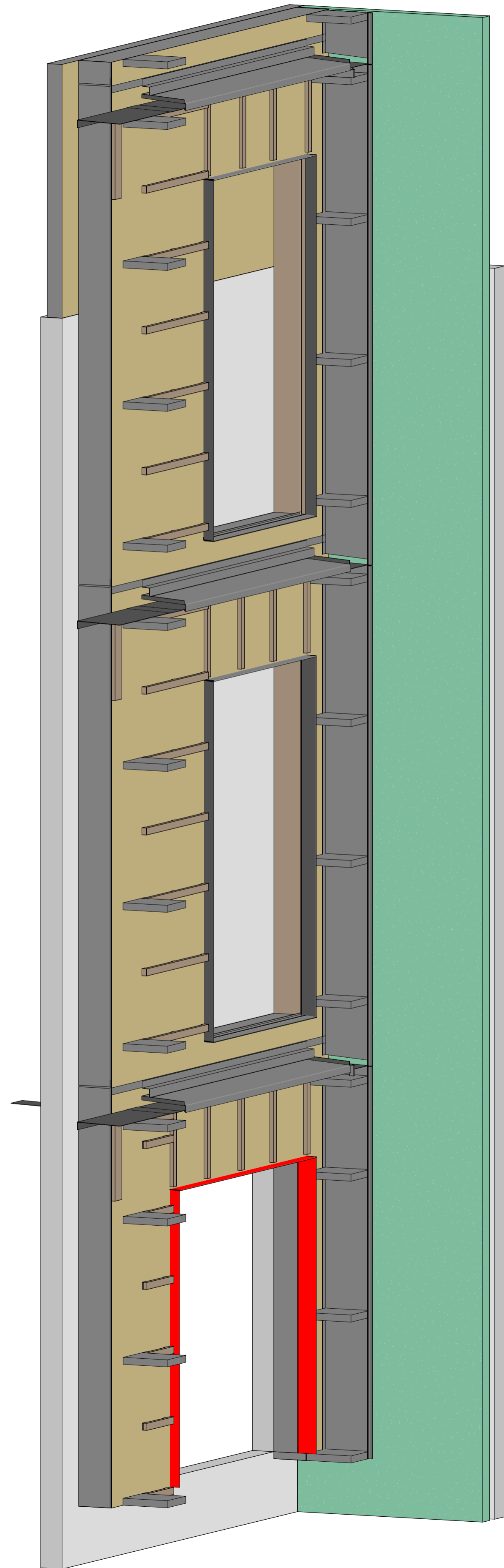
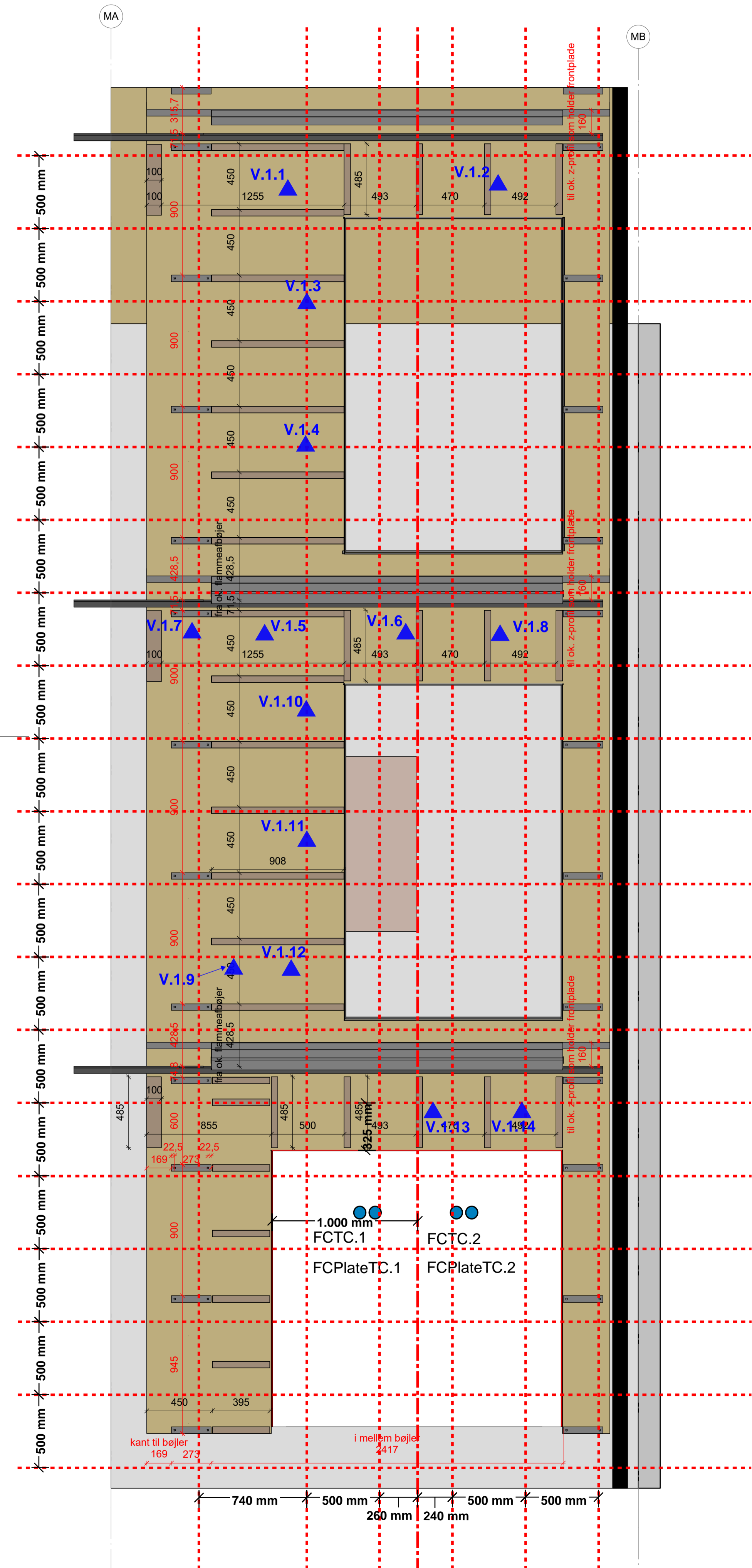
<b>Enclosures:</b>	<b>96</b>
DBI drawings:	3
DBI graphs and tables:	46
Photo sheets:	15
Sponsors drawings:	32



- 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 (Hele vejen igennem)
- I.2.6 + I.2.8 I midten af ventilationslag
- I.3.6 + I.3.8 I midten af isolering
- 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 (Hele vejen igennem)
- I.2.1 + I.2.3 I midten af ventilationslag
- I.3.1 + I.3.3 I midten af isolering
- ▲ 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.

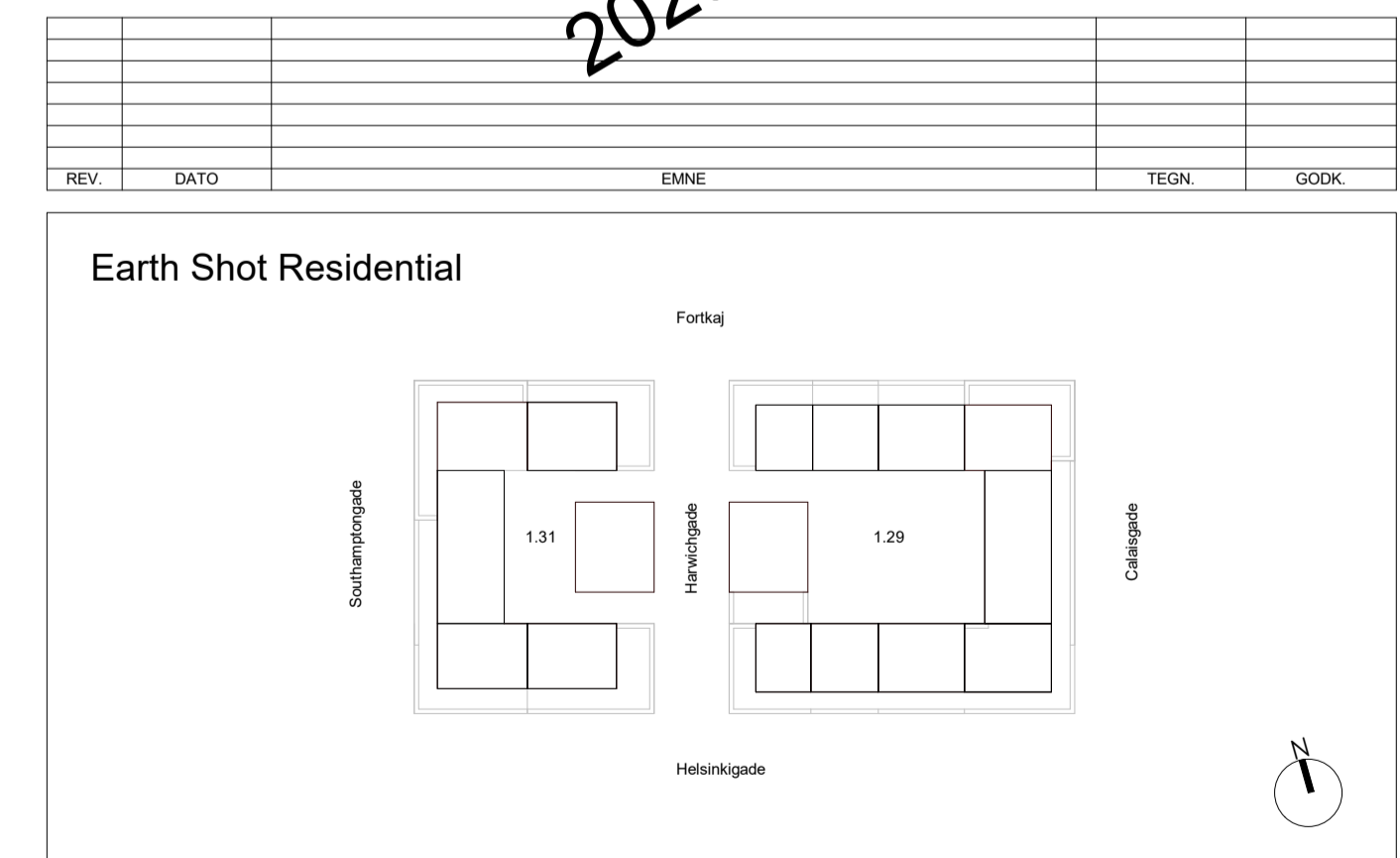


File No.: PGC10030A  
 Test date: 06-03-2024  
 Enclosure: 1.0  
 Danish Institute of Fire and security Technology  
 Sponsor: Distreal NSF III LOG Køge 3 ApS  
 Subject: EU Facade test 5



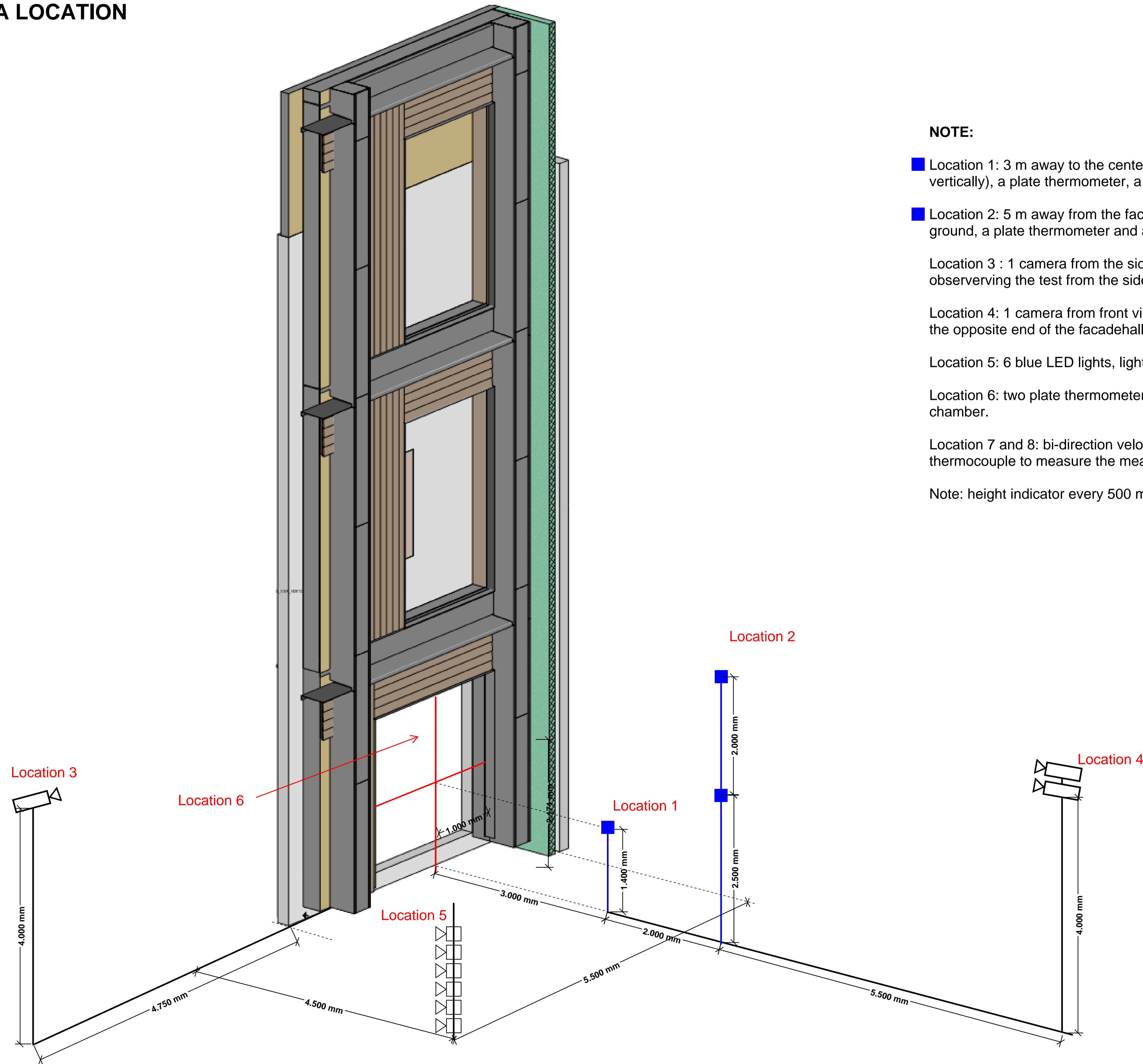
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- Thermocouple location on the facade surface required according to the standard (3 measurements: 5 cm out on exposed surface, middle of cavity and center of insulator).
- Thermocouple location on the facade surface required according to the standard (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.

Mock-up  
2023-11-28



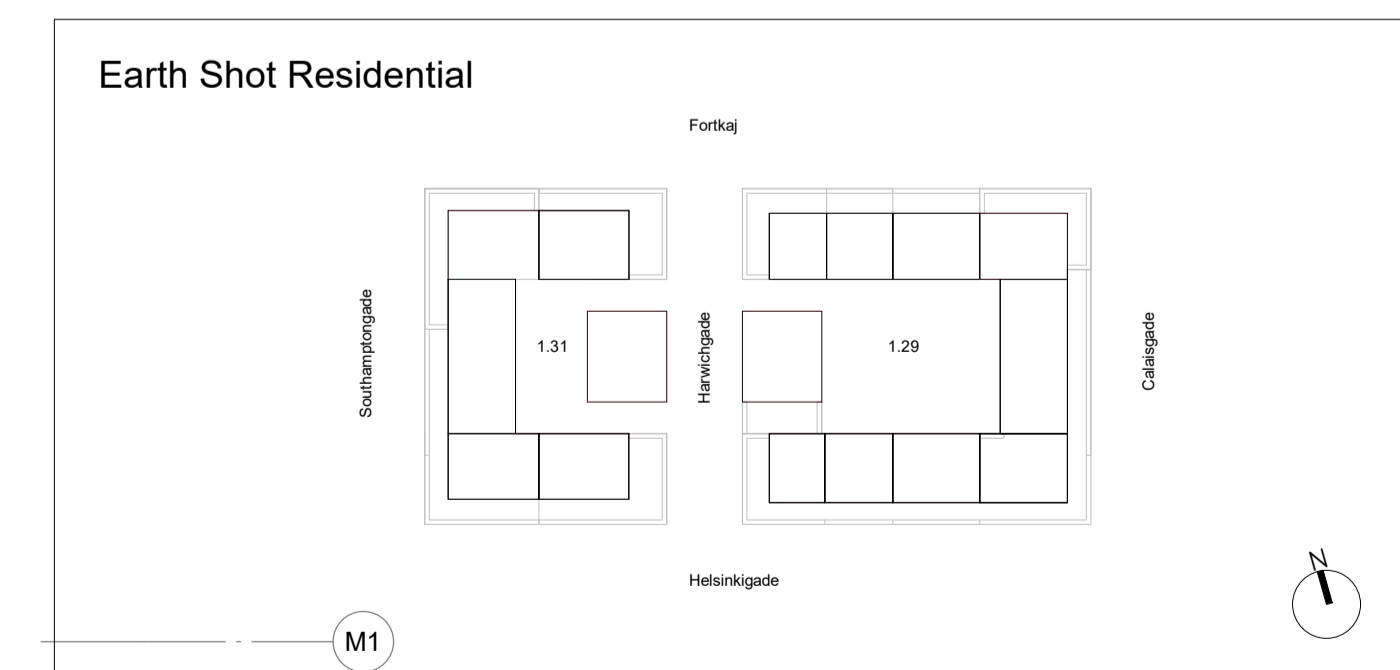
File No.: PGC10030A  
 Test date: 06-03-2024  
 Enclosure: 1.1  
 Danish Institute of Fire and security Technology  
 Sponsor: Distreal NSF III LOG Køge 3 ApS  
 Subject: EU Facade test 5

# BFUH-5 CAMERA LOCATION



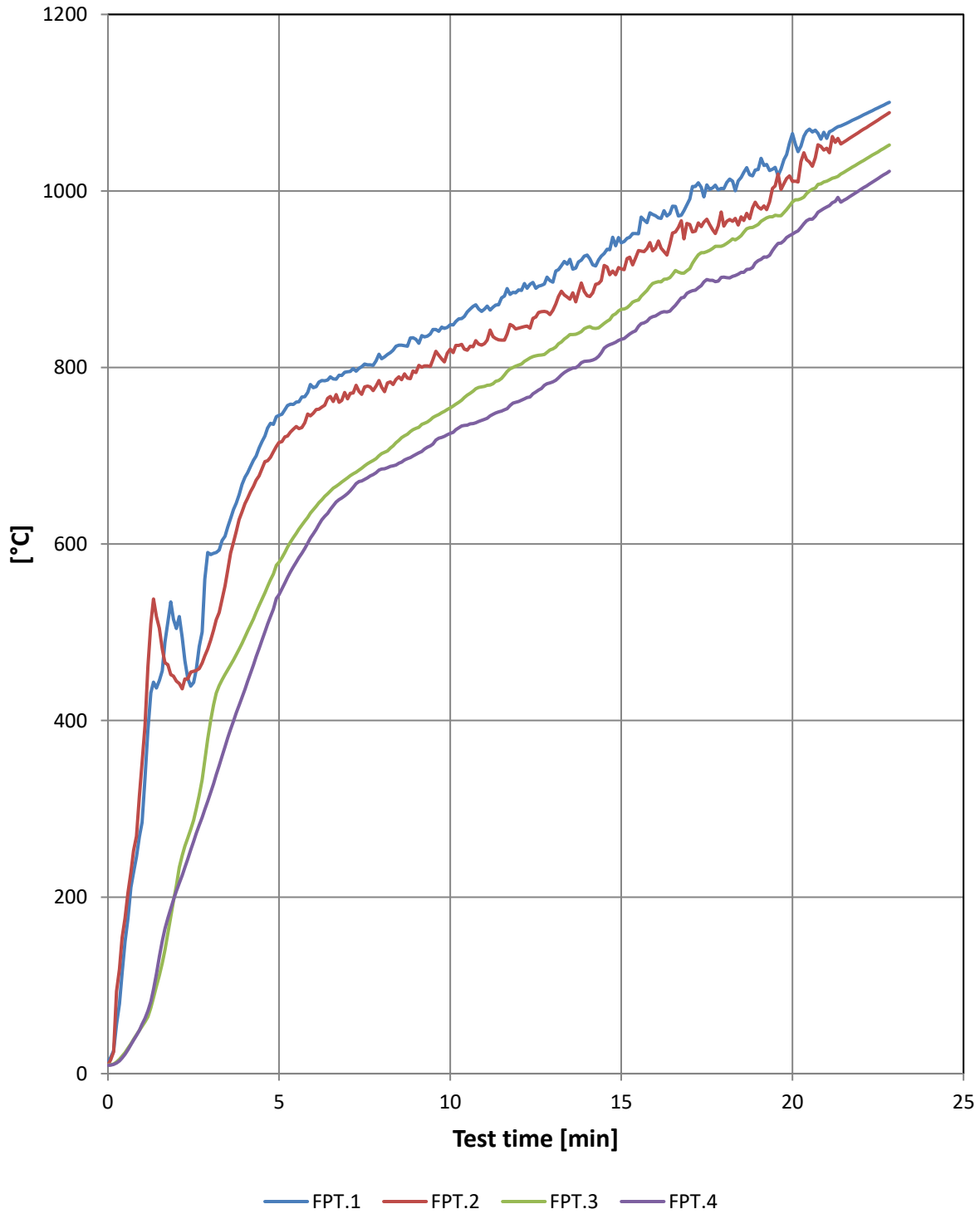
**NOTE:**

- Location 1: 3 m away to the center of the combustion chamber (both horizontally and vertically), a plate thermometer, a thermocouple and a water cooled heat flux censor.
  - Location 2: 5 m away from the facade wall, 2.5 m above the ground and 4.5 m above the ground, a plate thermometer and a thermocouple.
- Location 3 : 1 camera from the side view, 4 meters high, mounted on the SP-FIRE rig, observing the test from the side.
- Location 4: 1 camera from front view, 4 meters high, mounted on the gas-beton rig, at the opposite end of the facadehall in the corner.
- Location 5: 6 blue LED lights, light should focus on the second section of the facade.
- Location 6: two plate thermometers + two wire thermocouples inside the combustion chamber.
- Location 7 and 8: bi-direction velocity tube together with a wire temperature thermocouple to measure the measuring the flow speed towards the wood crib
- Note: height indicator every 500 mm at two edges of the facade.



File No.: PGC10030A  
 Test date: 06-03-2024  
 Enclosure: 1.2  
 Danish Institute of Fire and security Technology  
 Sponsor: Distreal NSF III LOG Køge 3 ApS  
 Subject: EU Facade test 5

### The temperature in the fire chamber during the test



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



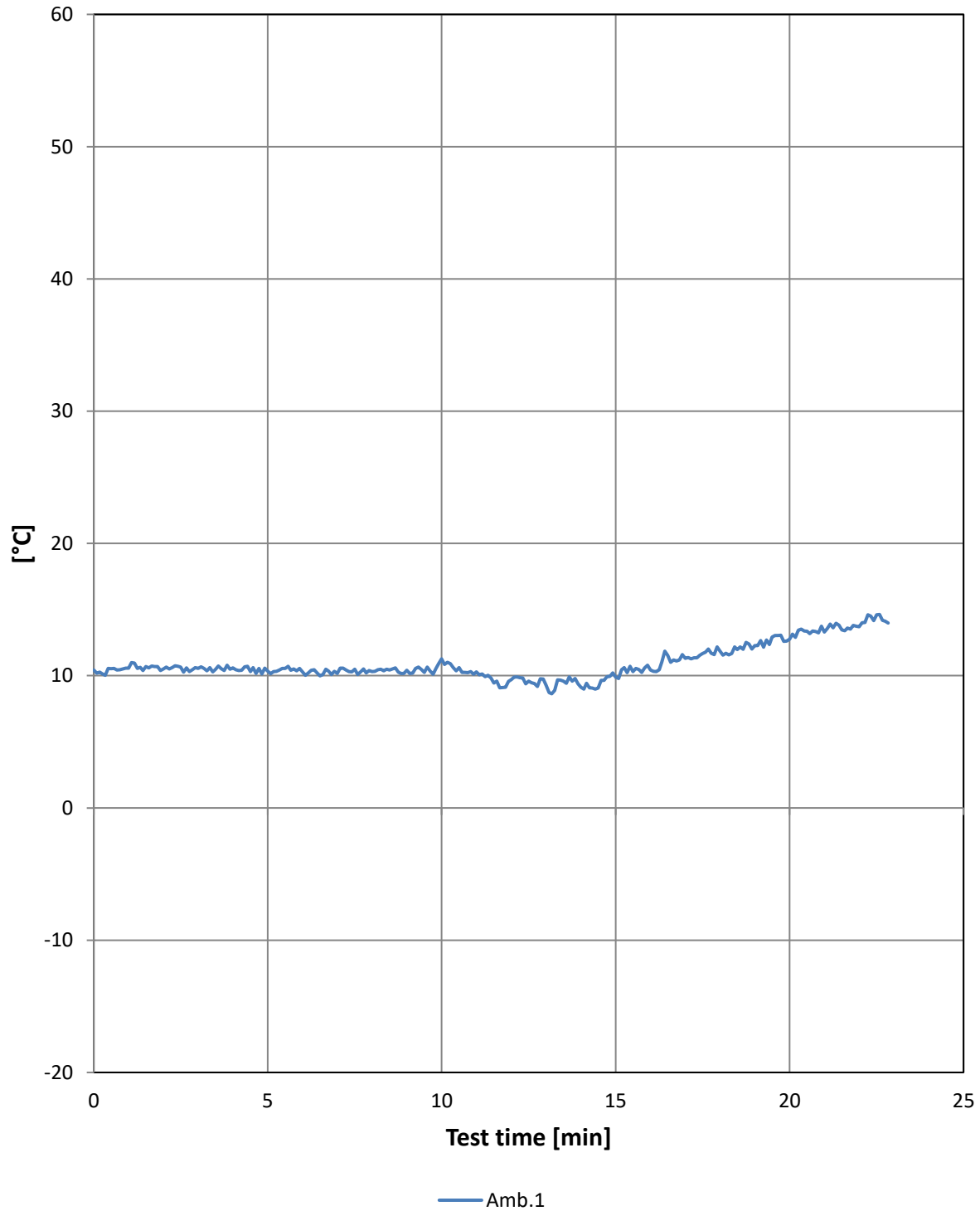
## The temperature in the fire chamber during the test

Min. / °C	FPT.1	FPT.2	FPT.3	FPT.4
0	14	10	10	9
1	285	352	54	56
2	504	445	213	207
3	588	491	400	319
4	676	646	495	435
5	746	715	579	543
6	777	748	639	611
7	795	765	675	657
8	810	778	702	685
9	832	794	731	701
10	849	821	754	725
11	866	827	779	741
12	888	845	803	761
13	897	865	821	784
14	927	881	846	807
15	941	912	866	832
16	972	935	896	858
17	991	962	912	886
18	1003	960	939	903
19	1024	982	962	921
20	1065	1011	988	951
21	1060	1049	1011	982
22	1085	1068	1033	1002

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

## Ambient temperature

*The ambient temperature in the laboratory during the test*

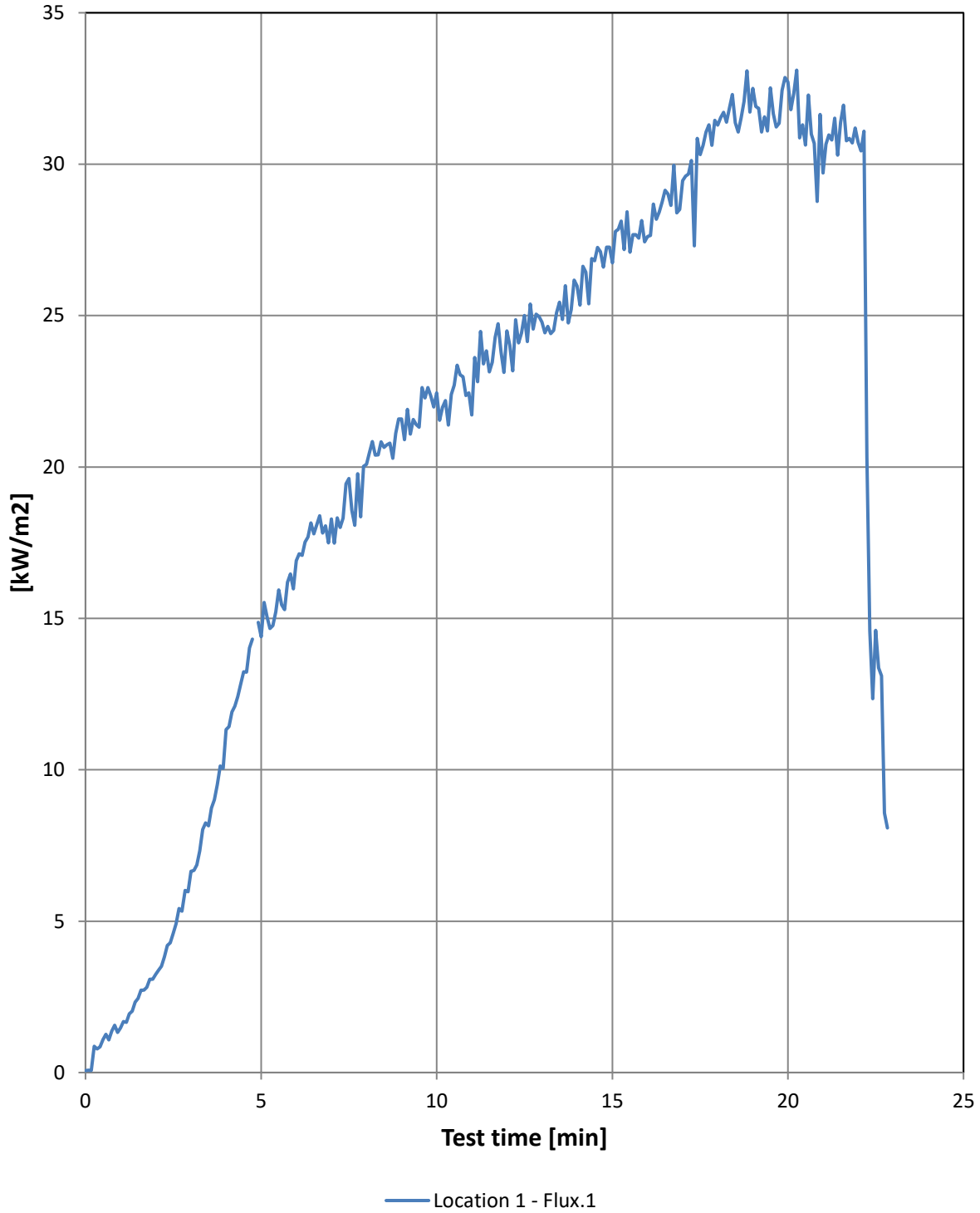


## Ambient temperature

*The ambient temperature in the laboratory during the test*

Min. / °C	Amb.1
0	10
1	11
2	11
3	11
4	11
5	10
6	10
7	10
8	10
9	10
10	11
11	10
12	10
13	9
14	9
15	10
16	10
17	11
18	12
19	12
20	13
21	13
22	14

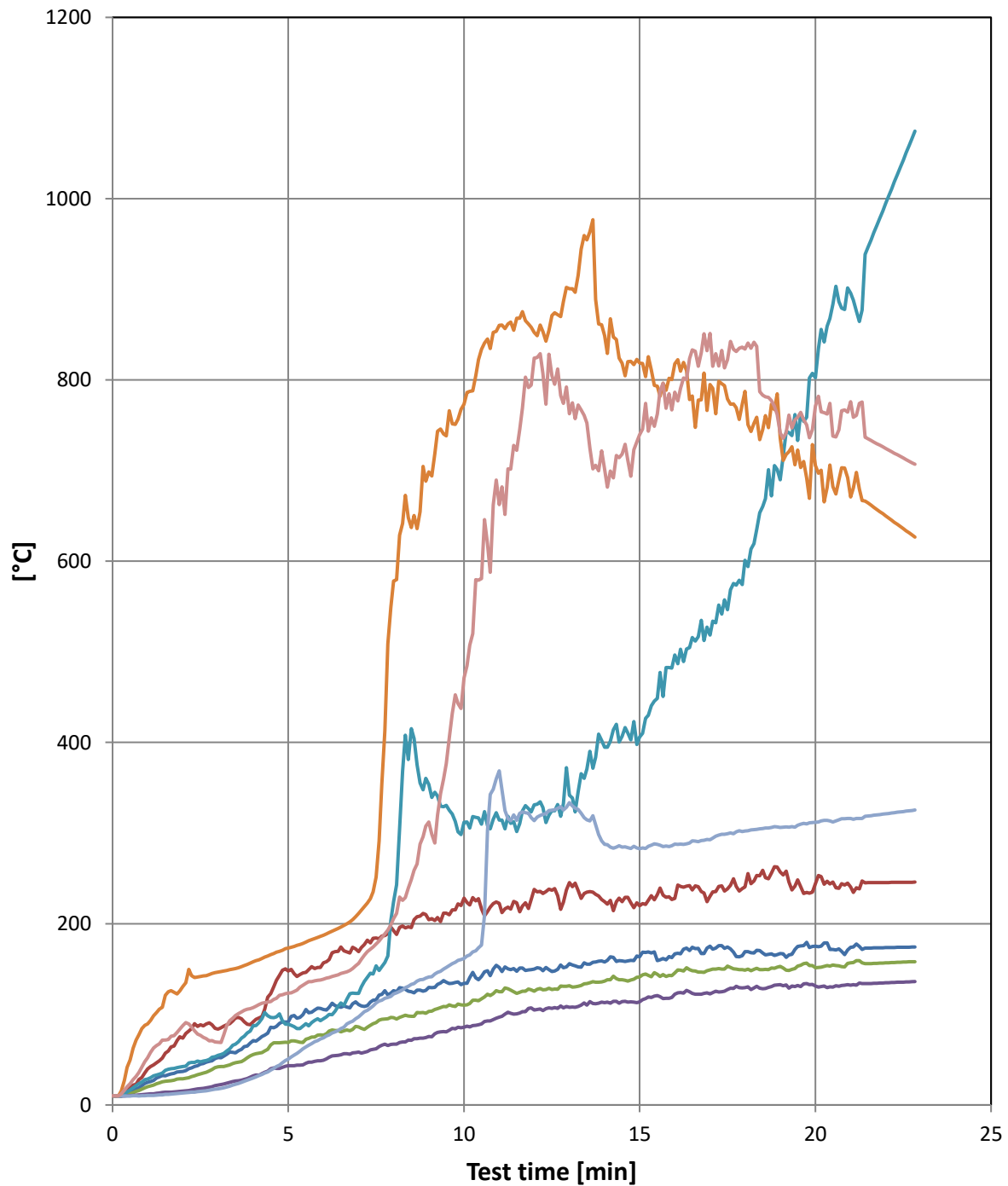
### Location 1 - Flux



## Location 1 - Flux

Min. / kW/m2	Location 1 - Flux.1
0	0
1	1
2	3
3	7
4	11
5	14
6	17
7	18
8	20
9	22
10	22
11	22
12	24
13	25
14	26
15	27
16	28
17	29
18	31
19	33
20	33
21	30
22	31

## Temperature measured in the ventilated cavity

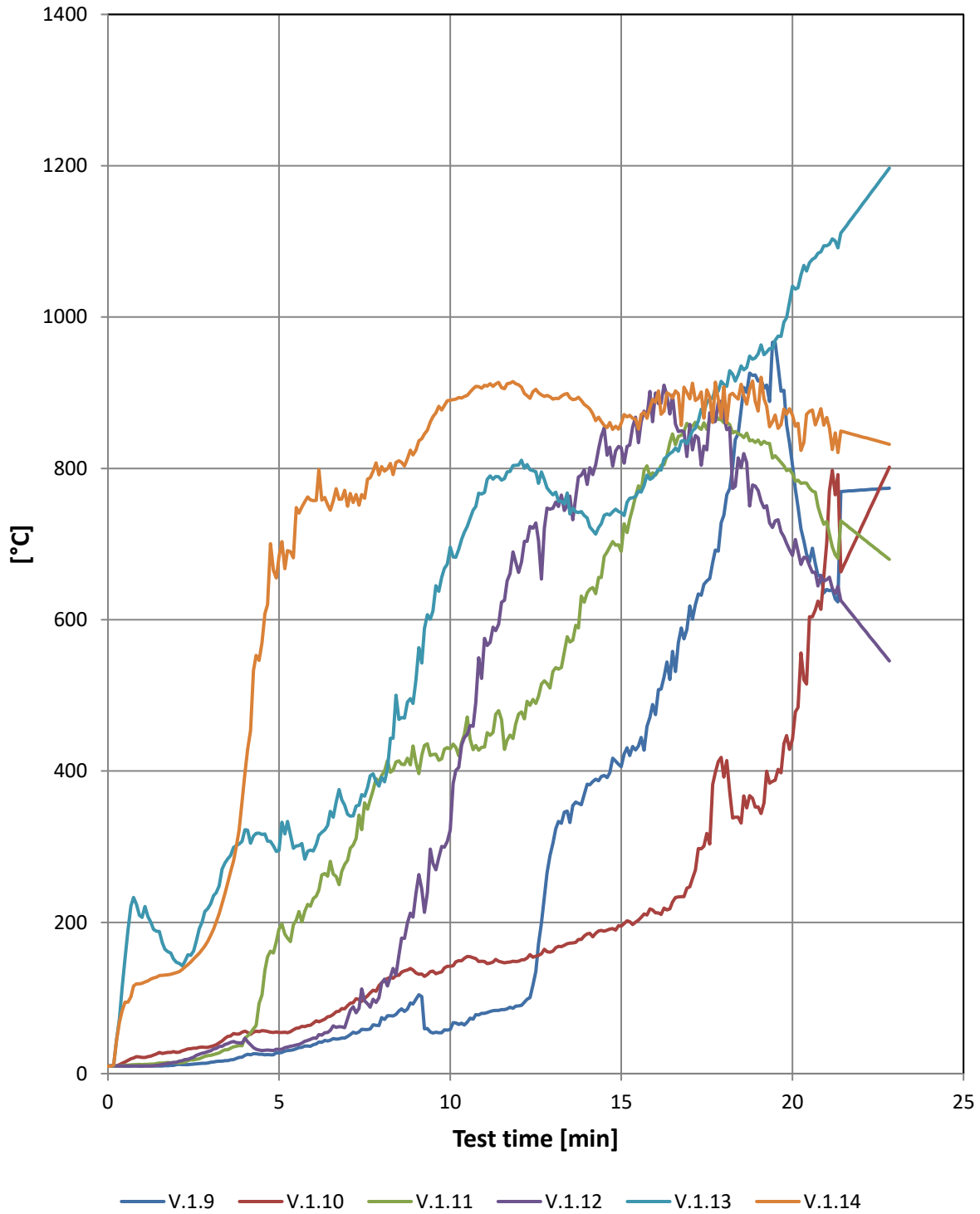


— V.1.1 — V.1.2 — V.1.3 — V.1.4 — V.1.5 — V.1.6 — V.1.7 — V.1.8

## 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	10	10	10	10	10	10	10	10
1	25	40	20	12	29	89	10	52
2	37	74	29	15	42	131	13	88
3	52	84	42	22	55	147	18	69
4	71	92	56	32	87	158	30	108
5	91	148	69	43	89	173	50	123
6	105	157	77	49	95	187	74	139
7	111	169	86	58	123	211	97	156
8	126	192	96	67	224	578	123	206
9	130	204	103	76	354	699	141	312
10	134	228	110	86	312	773	162	471
11	152	222	125	97	314	860	369	662
12	150	238	125	105	331	853	314	824
13	156	245	132	108	342	901	334	763
14	158	224	137	113	395	849	288	701
15	163	220	141	114	406	819	283	740
16	167	228	146	122	496	818	288	786
17	175	230	149	123	519	795	293	851
18	169	241	149	129	601	787	302	834
19	167	257	153	133	690	736	306	742
20	175	244	151	131	802	705	312	771
21	174	241	157	132	896	671	316	776
22	174	245	157	135	995	650	321	724

### Temperature measured in the ventilated cavity





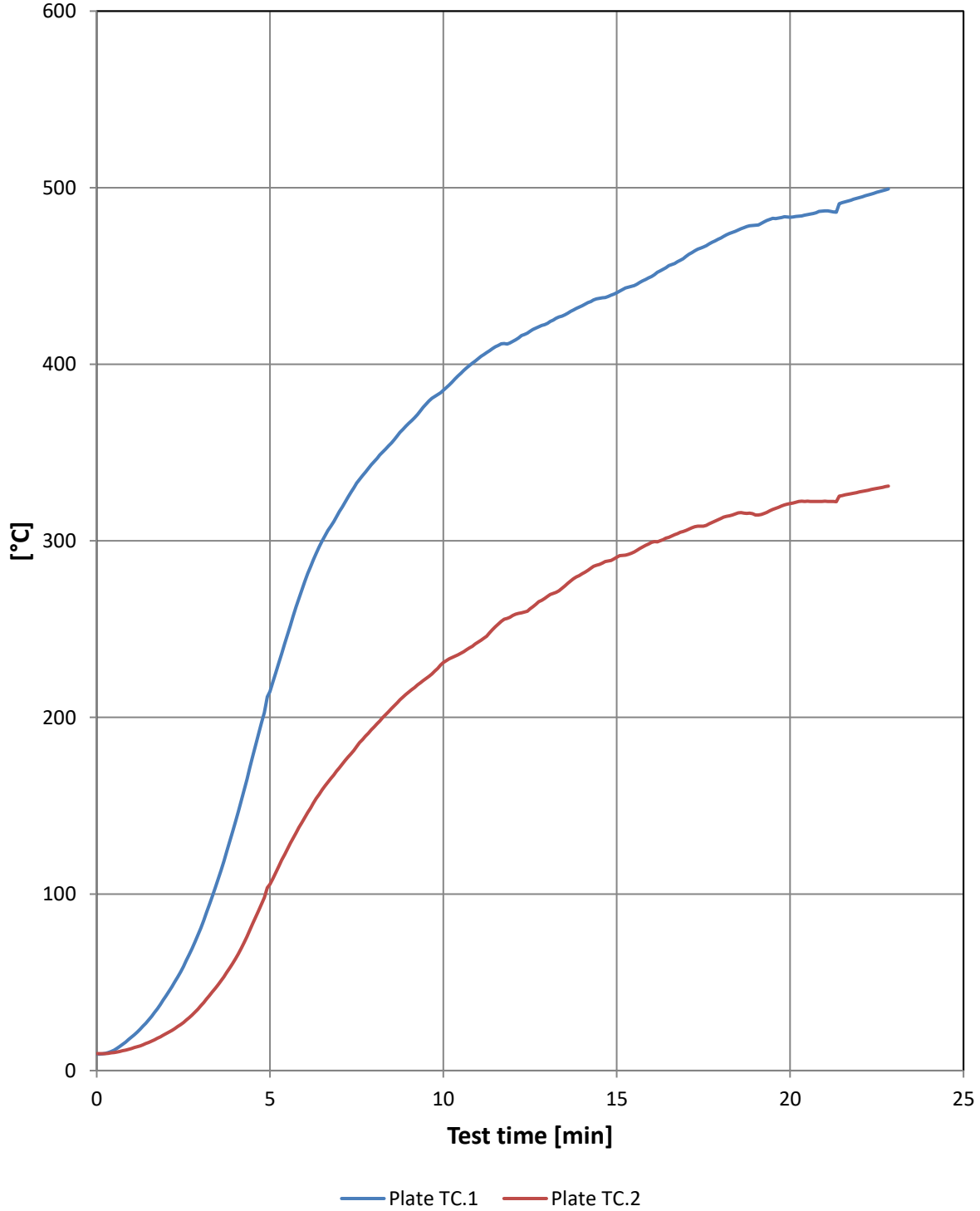
## Temperature measured in the ventilated cavity

Min. / °C	V.1.9	V.1.10	V.1.11	V.1.12	V.1.13	V.1.14
0	10	10	10	10	10	10
1	10	21	12	10	207	119
2	12	28	14	15	147	133
3	15	36	24	30	225	182
4	24	56	47	47	323	397
5	27	54	191	32	295	683
6	38	67	231	47	294	757
7	49	90	282	73	343	750
8	74	120	394	120	392	802
9	98	133	411	238	520	824
10	58	142	429	322	696	890
11	80	148	432	575	768	910
12	90	148	475	662	804	911
13	304	162	531	747	765	891
14	383	185	635	779	735	882
15	406	195	690	827	742	860
16	474	213	791	900	792	887
17	618	247	855	858	841	892
18	738	392	860	869	911	908
19	916	353	837	771	951	876
20	805	442	793	685	1041	870
21	640	702	730	653	1094	867
22	771	720	710	592	1146	842

### Location 1,2 - Plate TC 1.4m and 2.5m height

Plate TC.1 Location 1

Plate TC.2 Location 2



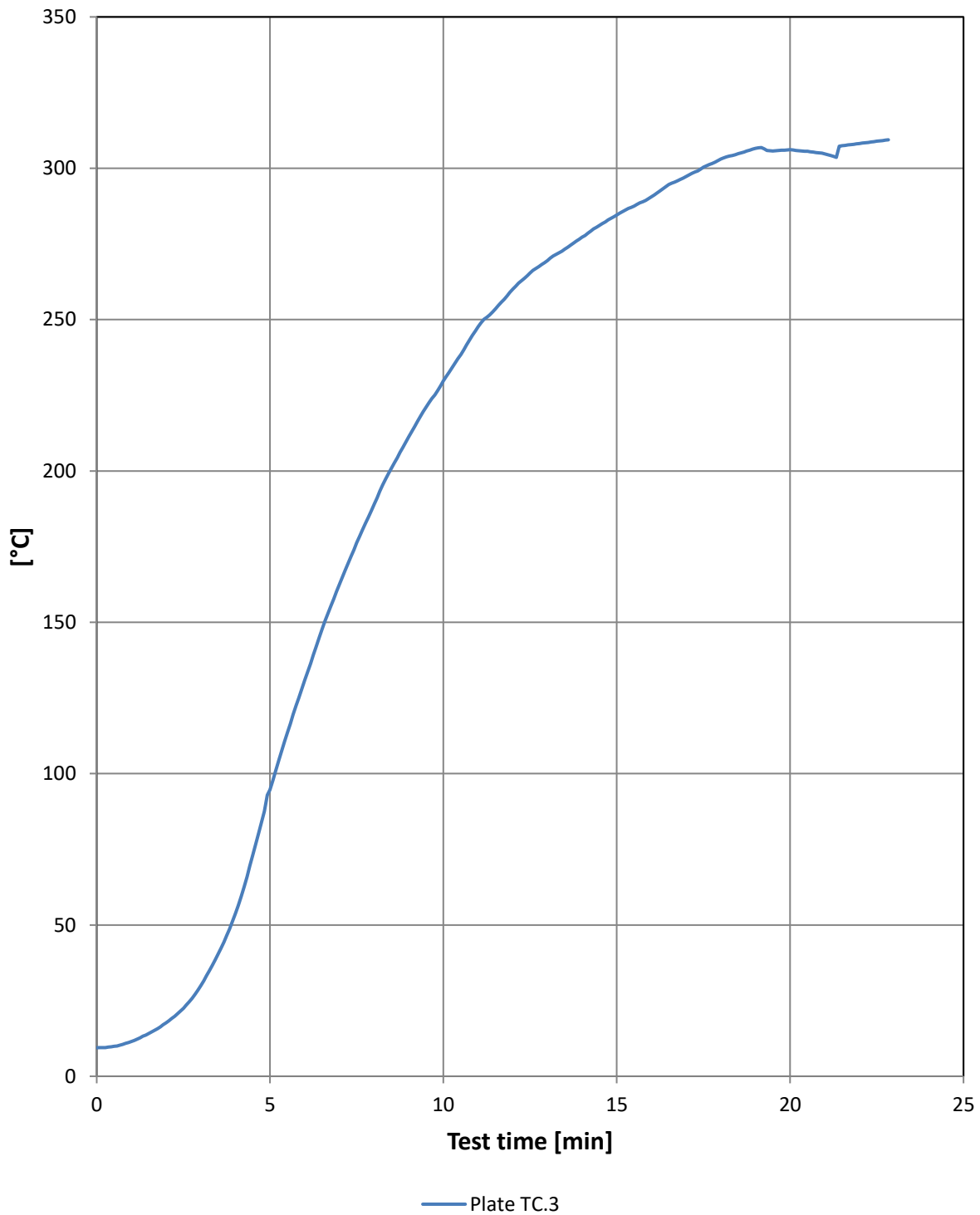
## Location 1,2 - Plate TC 1.4m and 2.5m height

*Plate TC.1 Location 1*

*Plate TC.2 Location 2*

Min. / °C	Plate TC.1	Plate TC.2
0	9	10
1	19	12
2	42	21
3	81	37
4	141	63
5	215	105
6	277	143
7	317	171
8	345	195
9	367	214
10	385	231
11	403	243
12	413	258
13	423	269
14	433	281
15	441	291
16	450	299
17	461	306
18	471	313
19	479	315
20	483	321
21	487	323
22	494	328

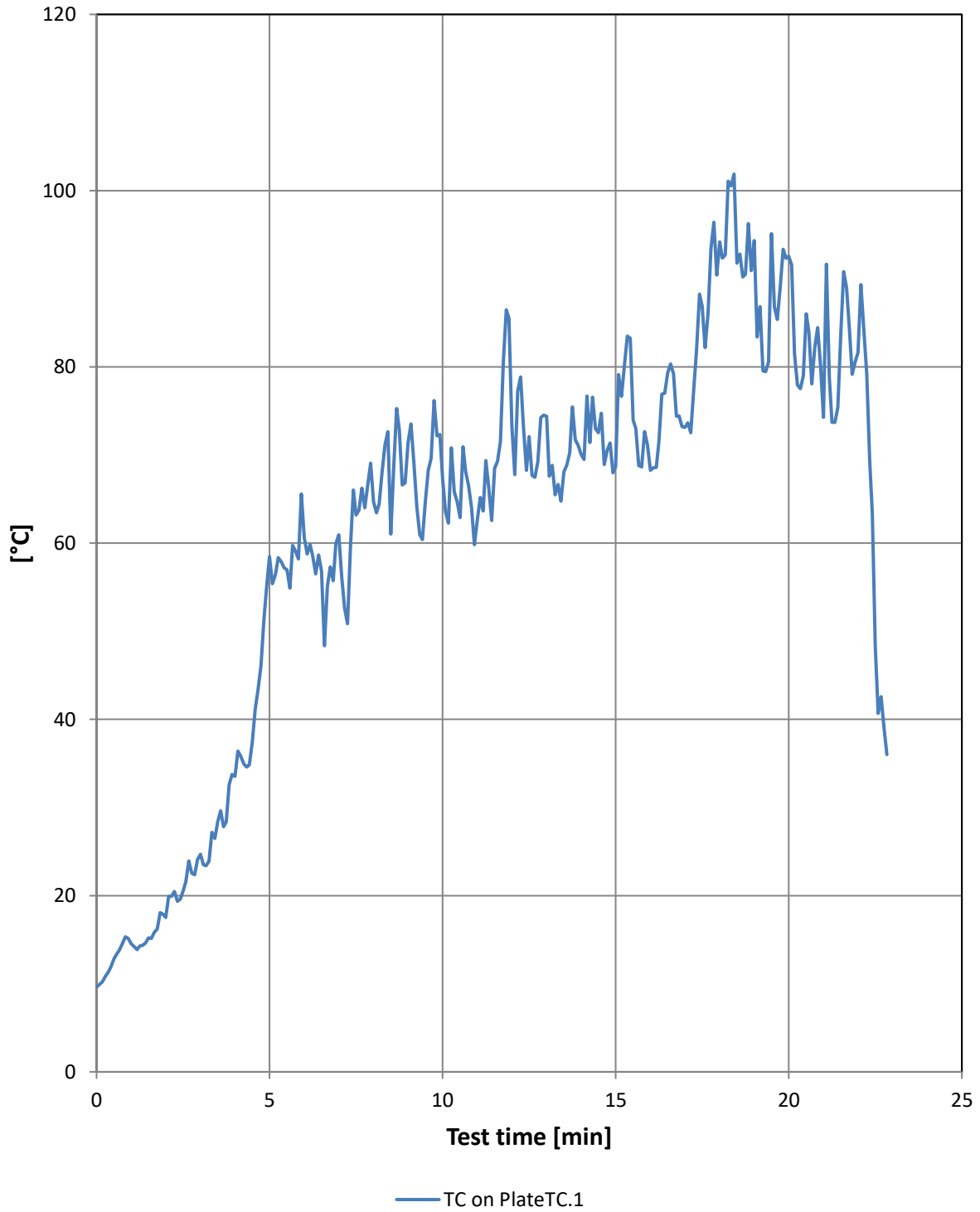
**Location 2 - 5 m from facade 4.5 m height.**



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

Min. / °C	Plate TC.3
0	9
1	12
2	18
3	30
4	54
5	95
6	131
7	162
8	189
9	211
10	230
11	248
12	260
13	269
14	277
15	285
16	291
17	297
18	303
19	307
20	306
21	305
22	308

### Location 1 - TC on PlateTC

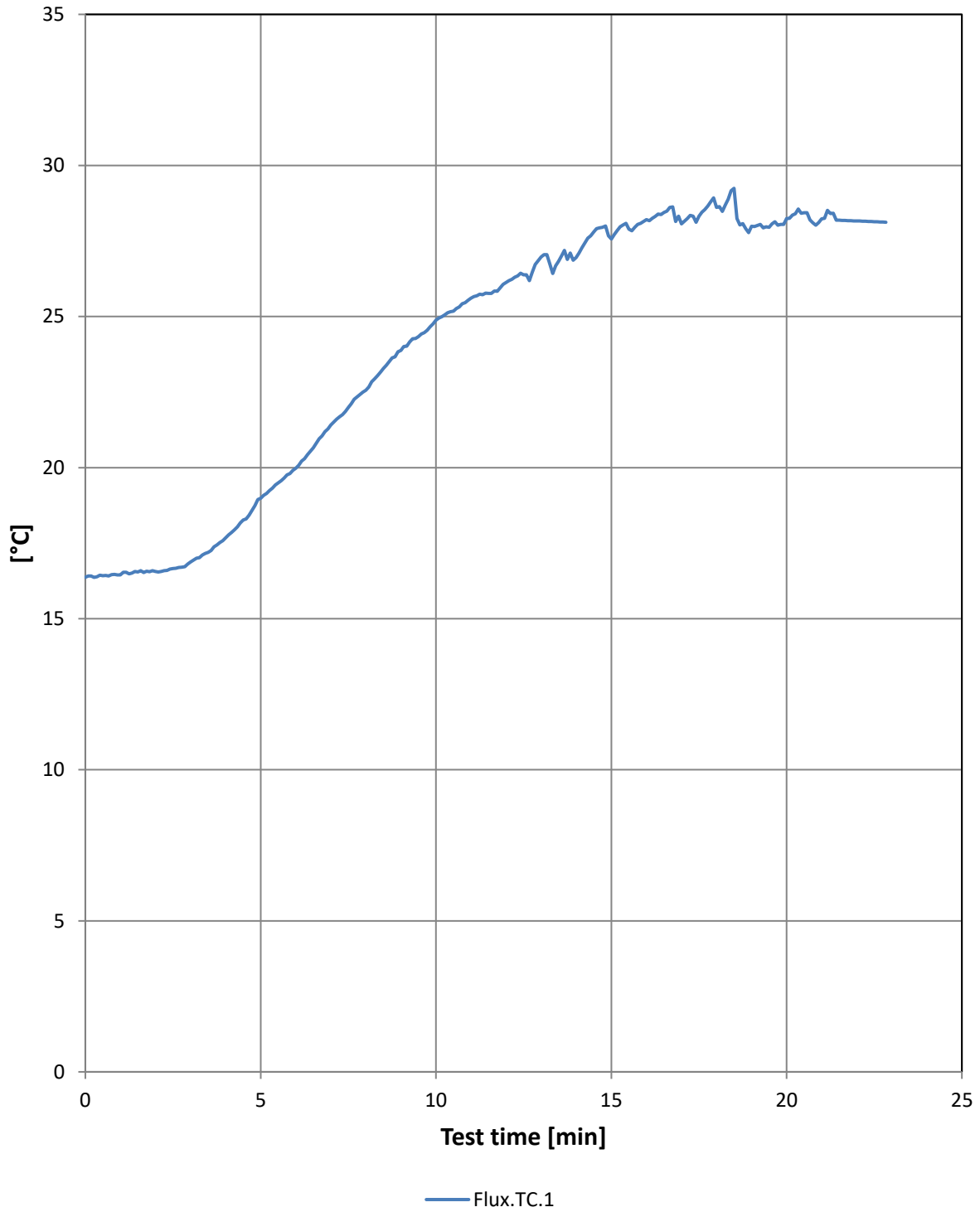


**Location 1 - TC on PlateTC**

Min. / °C	TC on PlateTC.1
0	10
1	15
2	18
3	25
4	34
5	58
6	61
7	61
8	65
9	71
10	67
11	63
12	73
13	74
14	70
15	69
16	68
17	73
18	94
19	94
20	93
21	74
22	82

## Location 1 - TC on Flux

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





## Location 1 - TC on Flux

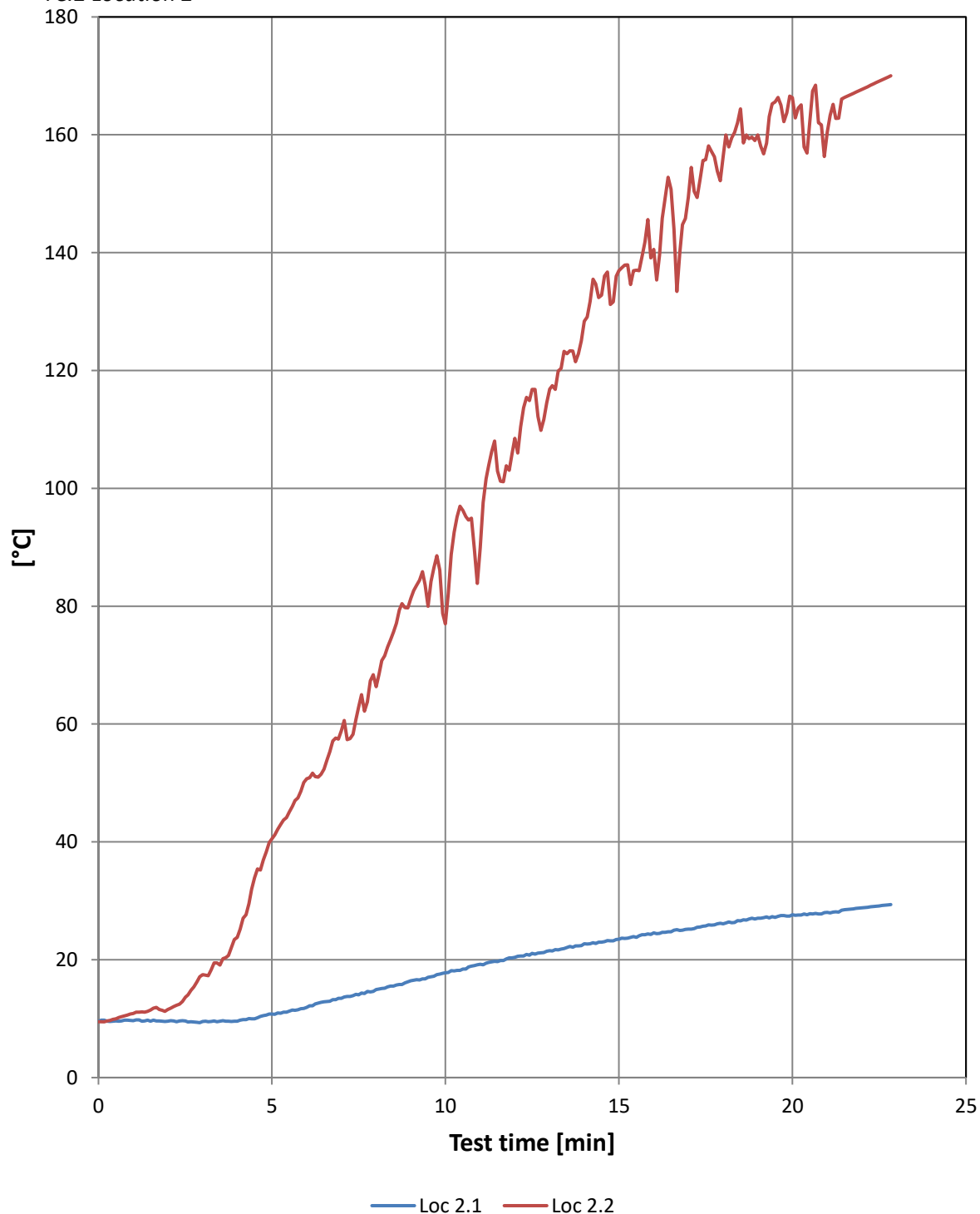
*Flux.TC.2 located 3 m from fire chamber*

Min. / °C	Flux.TC.1
0	16
1	16
2	17
3	17
4	18
5	19
6	20
7	21
8	23
9	24
10	25
11	26
12	26
13	27
14	27
15	28
16	28
17	28
18	29
19	28
20	28
21	28
22	28

## Location 2 - TC

TC.1 Location 2

TC.2 Location 2



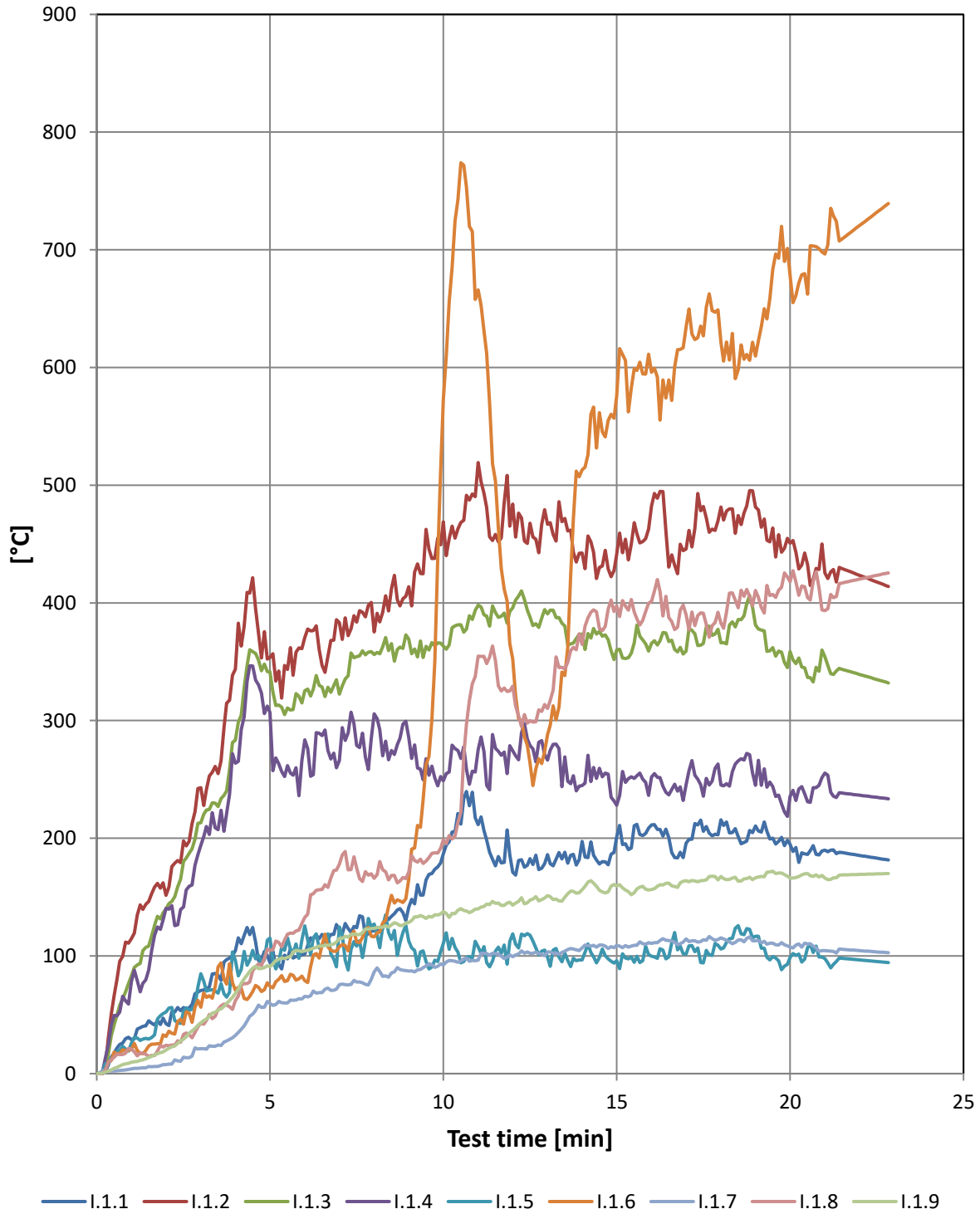
## Location 2 - TC

TC.1 Location 2

TC.2 Location 2

Min. / °C	Loc 2.1	Loc 2.2
0	10	9
1	10	11
2	10	12
3	10	17
4	10	24
5	11	40
6	12	51
7	13	59
8	15	66
9	16	81
10	18	77
11	19	90
12	20	108
13	22	117
14	23	128
15	23	137
16	25	141
17	25	149
18	26	156
19	27	160
20	28	166
21	28	160
22	29	168

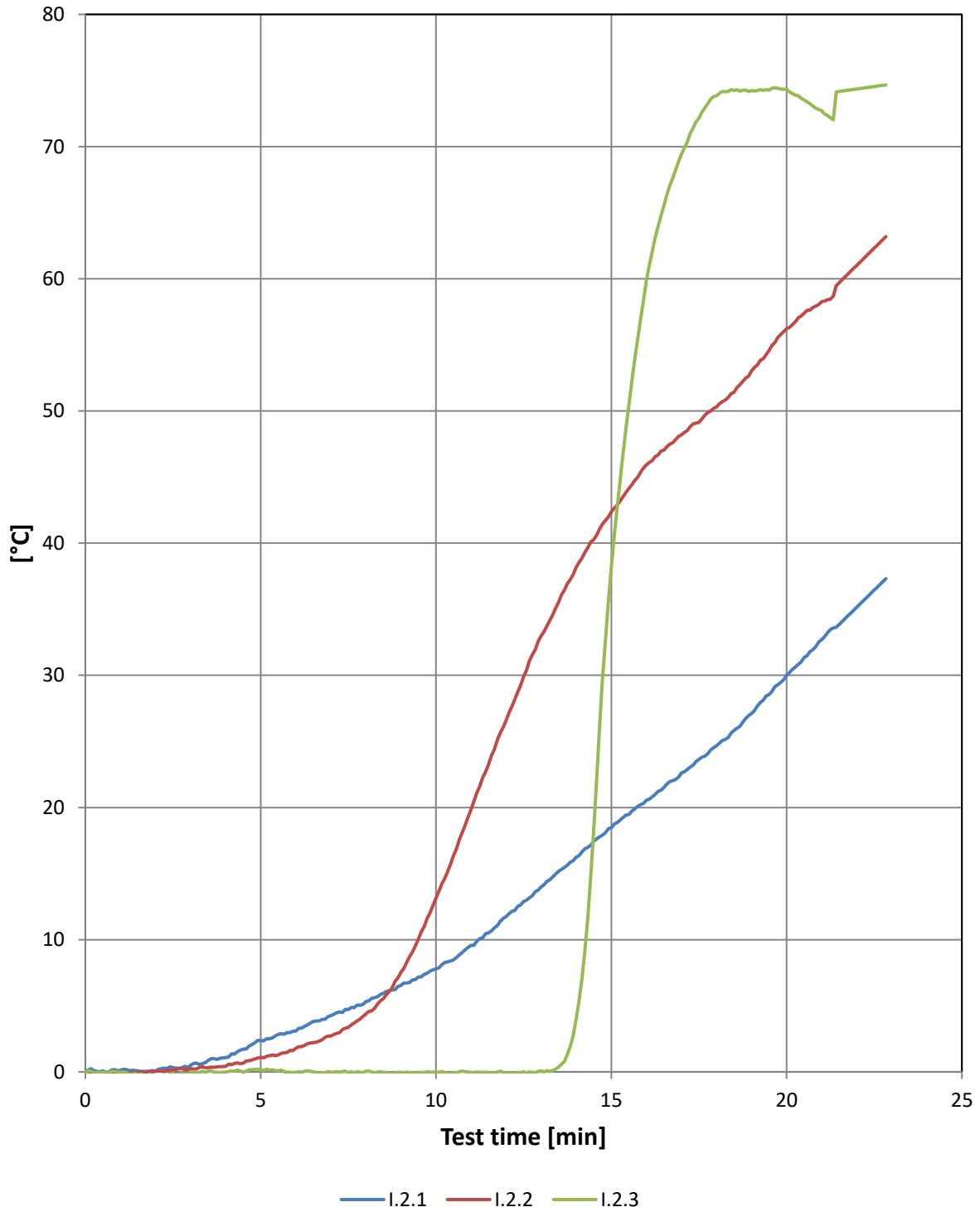
### Temperature rise measured 50mm from the facade



## 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
1	29	115	83	78	26	20	4	21	10
2	42	151	140	140	52	32	8	24	20
3	71	243	213	194	85	56	21	43	43
4	104	344	283	264	96	71	33	62	68
5	94	354	341	307	115	74	60	105	91
6	102	371	325	284	126	79	66	133	104
7	122	383	322	266	125	108	76	178	115
8	121	375	356	306	127	116	86	166	124
9	141	414	369	286	113	165	87	171	128
10	187	469	363	249	111	573	92	199	138
11	212	519	398	275	108	666	97	355	140
12	171	484	396	274	119	352	99	329	143
13	186	467	391	266	99	288	103	310	151
14	197	442	374	245	97	513	107	365	156
15	201	441	360	228	96	576	109	397	159
16	211	482	366	252	100	596	111	401	156
17	196	446	359	245	102	634	115	390	164
18	216	481	366	245	106	621	115	383	168
19	210	481	381	245	117	610	113	410	166
20	195	451	359	236	99	679	107	418	166
21	190	425	354	255	98	696	105	393	166
22	185	423	339	237	97	721	105	420	169

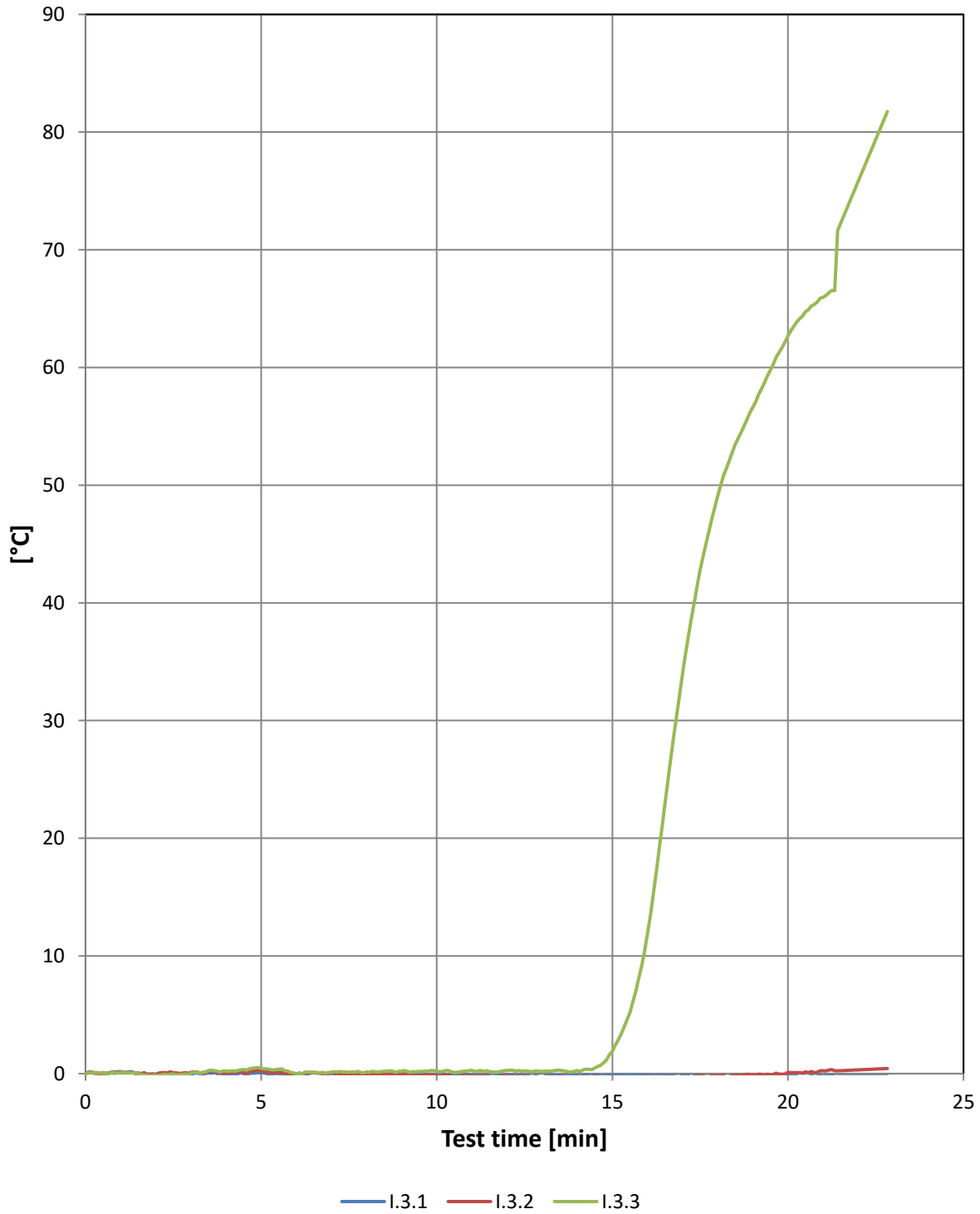
### Temperature rise measured in ventilation layer



## Temperature rise measured in ventilation layer

Min. / °C	I.2.1	I.2.2	I.2.3
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	1	0	0
5	2	1	0
6	3	2	0
7	4	3	0
8	5	4	0
9	7	8	0
10	8	13	0
11	10	20	0
12	12	27	0
13	14	33	0
14	16	38	4
15	18	42	38
16	21	46	60
17	23	48	69
18	25	50	74
19	27	53	74
20	30	56	74
21	33	58	73
22	35	61	74

### Temperature rise measured in middle of insulation

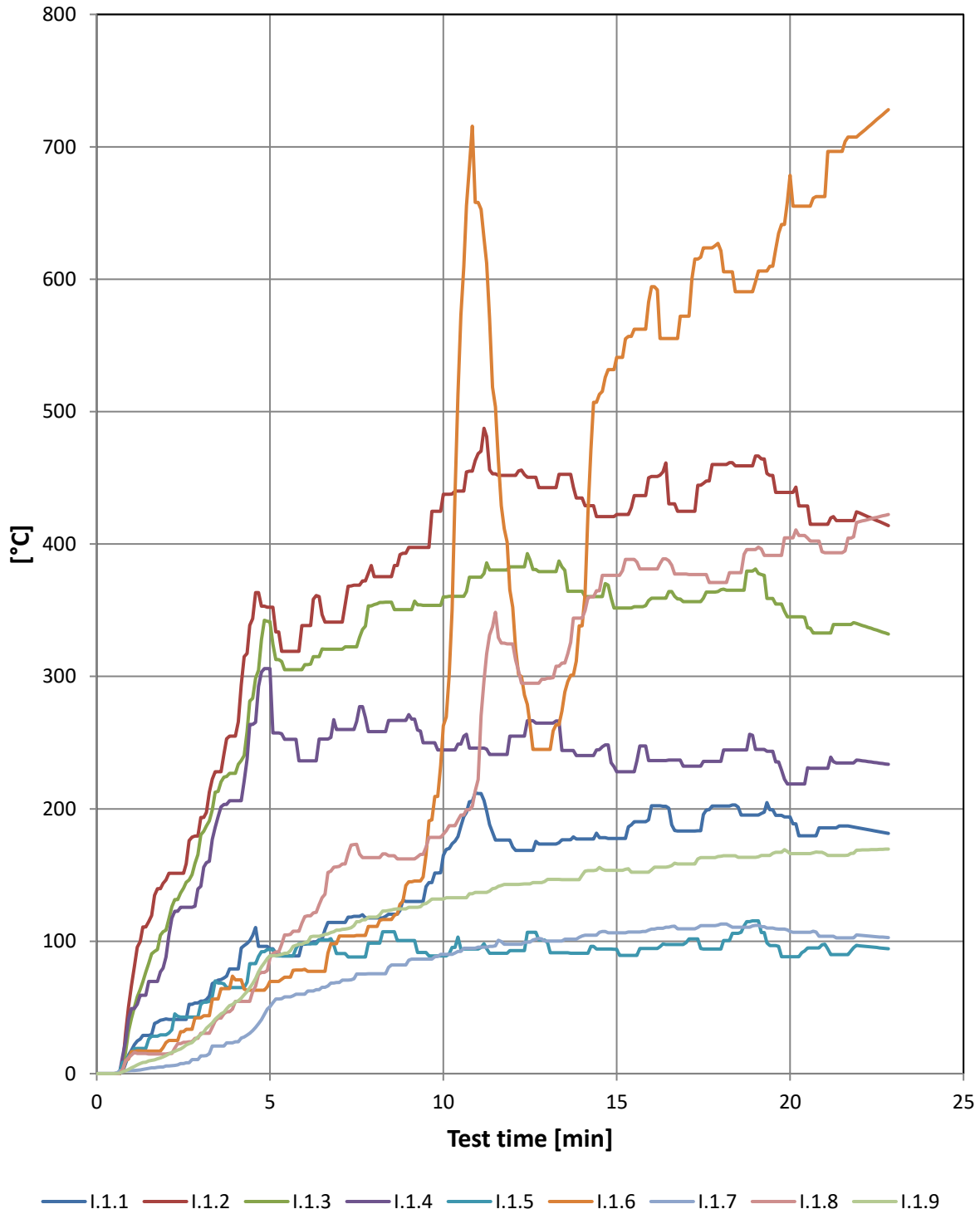




## Temperature rise measured in middle of insulation

Min. / °C	I.3.1	I.3.2	I.3.3
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	2
16	0	0	12
17	0	0	34
18	0	0	49
19	0	0	57
20	0	0	63
21	0	0	66
22	0	0	76

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

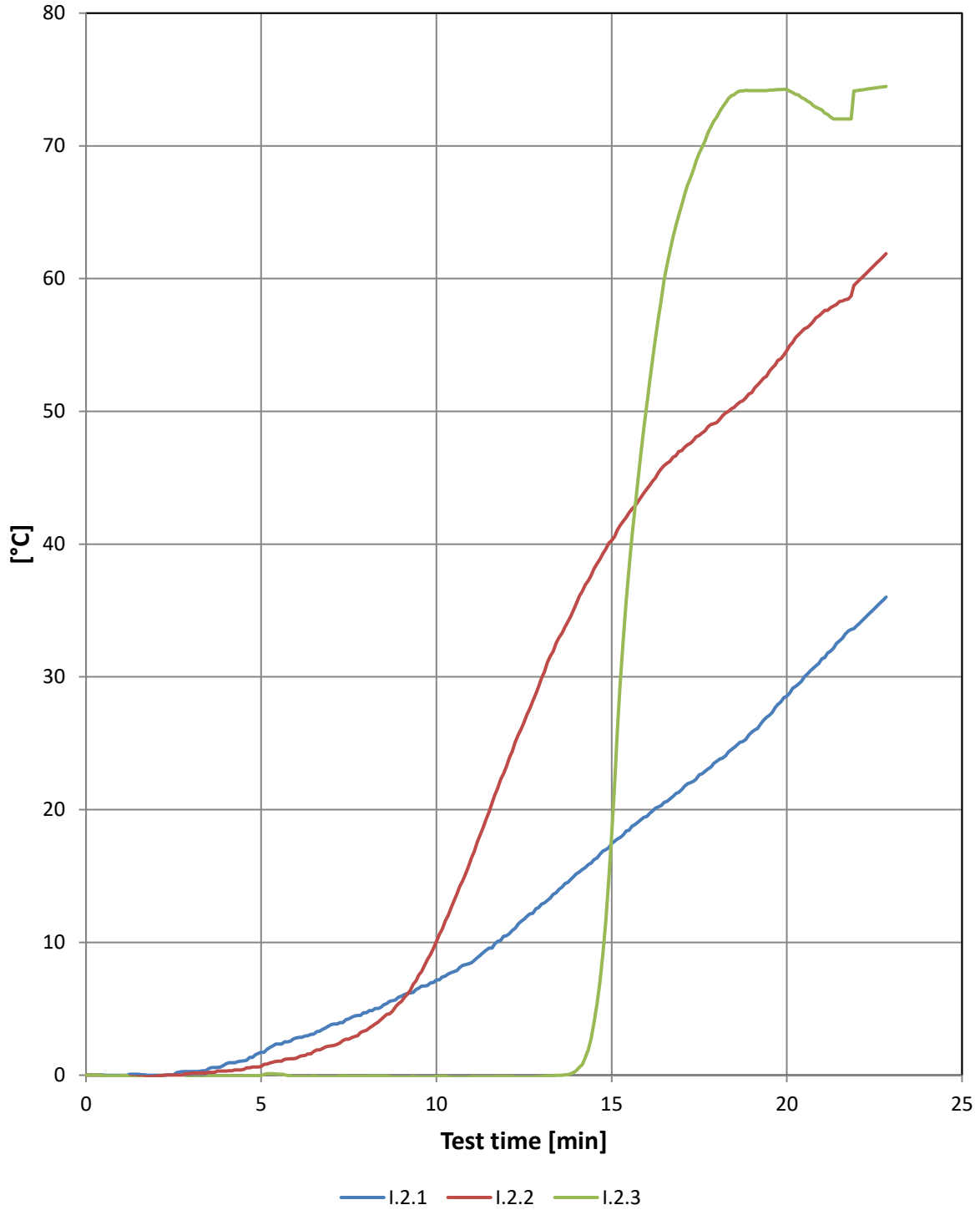


**Temperature rise measured according to the standard - 50 mm from facade. Minimum of 30 sec**

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
1	18	66	42	49	15	17	2	14	4	66
2	41	146	108	88	29	24	6	15	14	146
3	55	194	180	142	53	42	13	31	29	194
4	79	255	227	206	65	71	24	55	54	255
5	94	352	341	306	94	70	51	87	89	352
6	98	338	309	236	98	79	60	119	99	338
7	114	341	321	260	91	104	69	156	108	341
8	118	375	354	258	99	111	75	163	118	375
9	130	397	351	271	101	145	86	162	126	397
10	165	438	360	244	89	263	90	181	132	438
11	212	468	375	246	94	658	96	222	137	658
12	171	452	383	255	93	352	98	325	143	452
13	173	443	379	265	99	245	100	299	147	443
14	177	435	364	240	91	338	104	344	150	435
15	178	422	352	228	94	541	106	376	154	541
16	202	451	359	236	94	594	109	381	154	594
17	183	425	357	232	99	572	109	377	158	572
18	202	460	366	236	94	621	113	371	164	621
19	195	467	381	245	115	598	112	396	163	598
20	194	439	345	219	88	679	107	405	166	679
21	186	415	333	231	98	662	104	393	166	662
22	185	423	339	237	97	709	105	417	169	709

Failure [min]	-	-	-	-	-	10.33	-	-	-	10.33
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

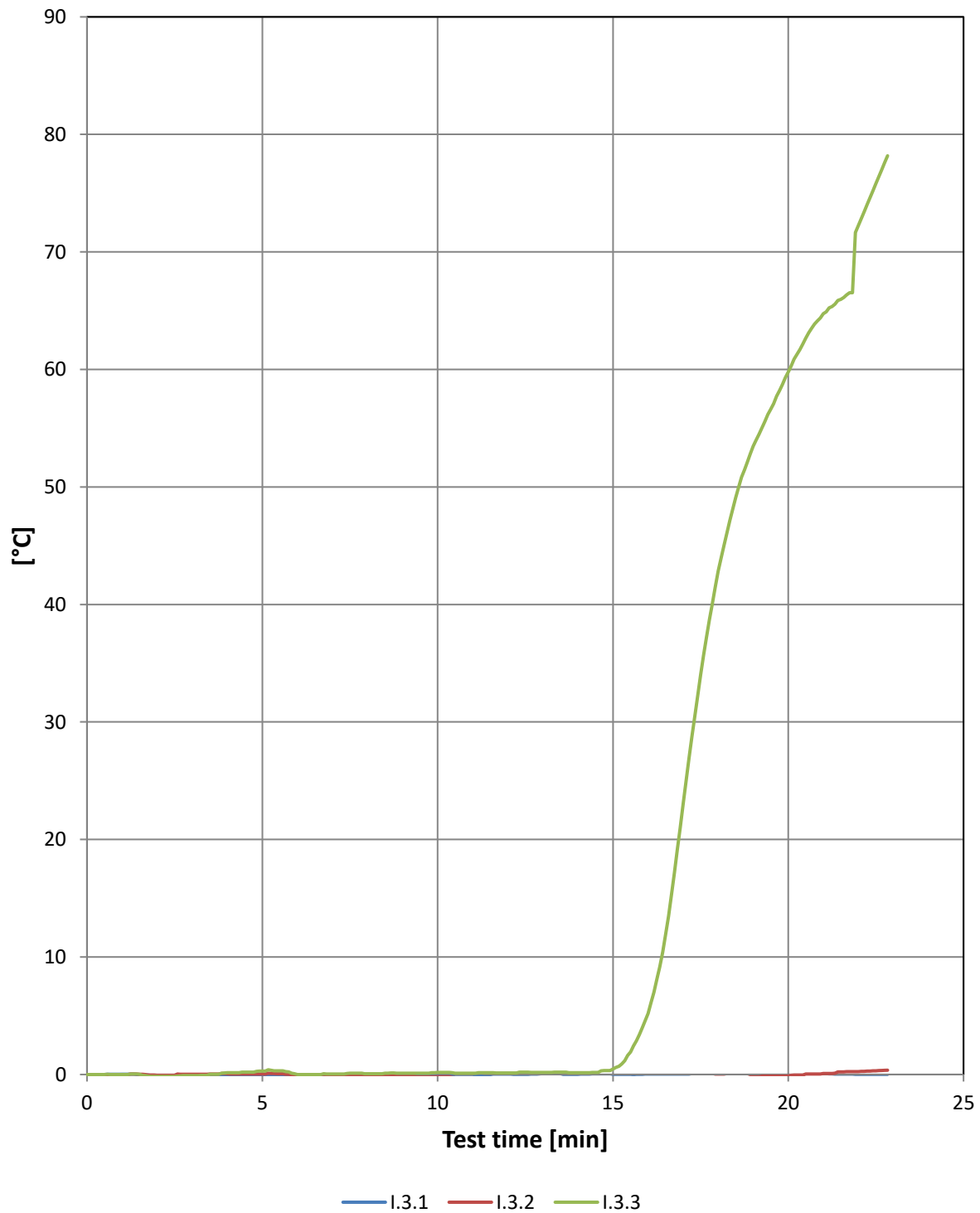


**Temperature rise measured according to the standard - ventilation layer.  
Minimum of 30 sec**

Min. / °C	I.2.1	I.2.2	I.2.3	I.2.Max
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	1	0	0	1
5	2	1	0	2
6	3	1	0	3
7	4	2	0	4
8	5	3	0	5
9	6	6	0	6
10	7	10	0	10
11	8	16	0	16
12	11	23	0	23
13	13	30	0	30
14	15	36	0	36
15	17	40	18	40
16	19	44	50	50
17	22	47	66	66
18	24	49	72	72
19	26	51	74	74
20	29	55	74	74
21	31	57	73	73
22	34	60	74	74

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

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

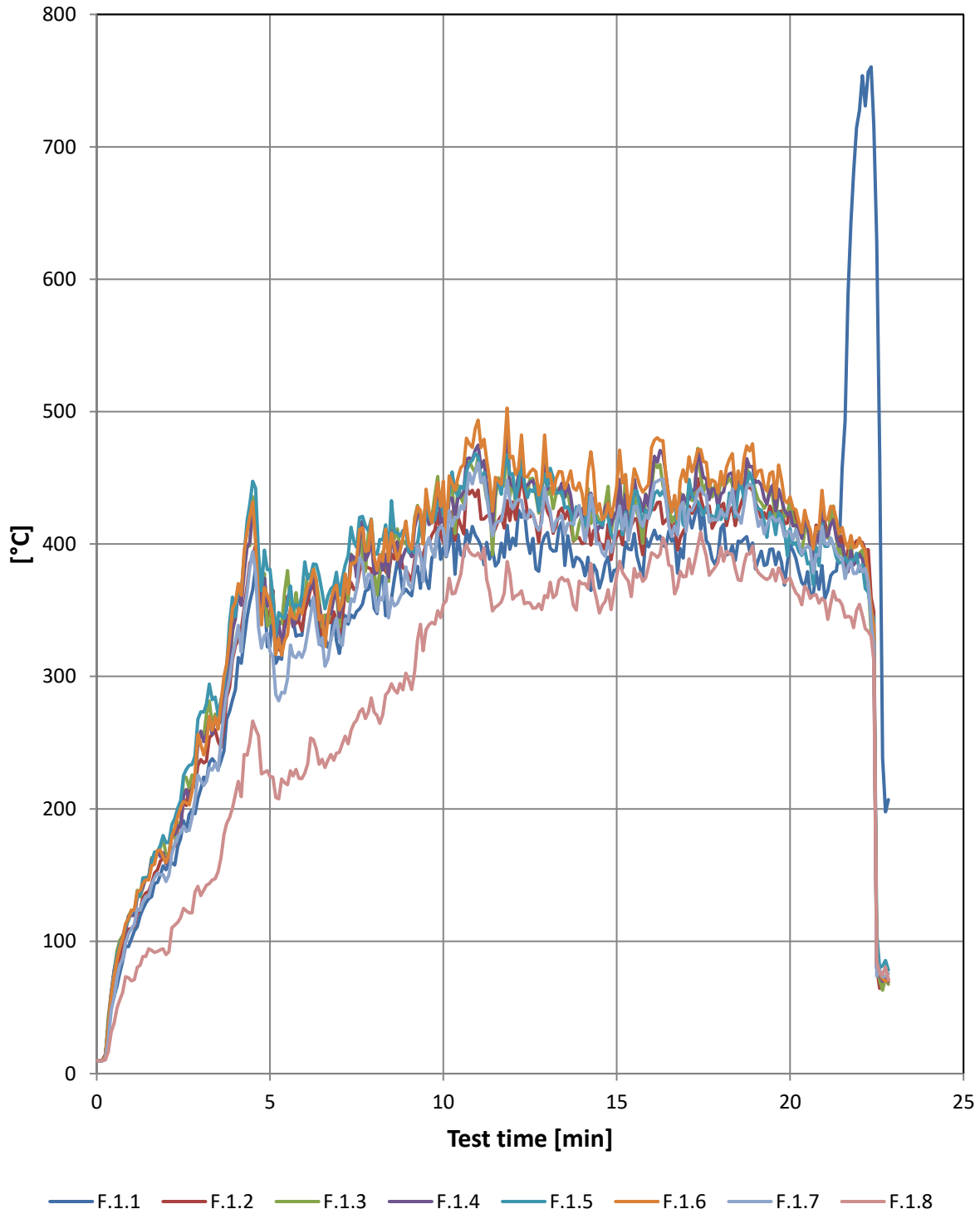


**Temperature rise measured according to the standard - in the middle of the insulation. Minimum of 30 sec**

Min. / °C	I.3.1	I.3.2	I.3.3	I.3.Max
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	5	5
17	0	0	23	23
18	0	0	43	43
19	0	0	53	53
20	0	0	60	60
21	0	0	65	65
22	0	0	72	72

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

### Vertical measurements on main facade

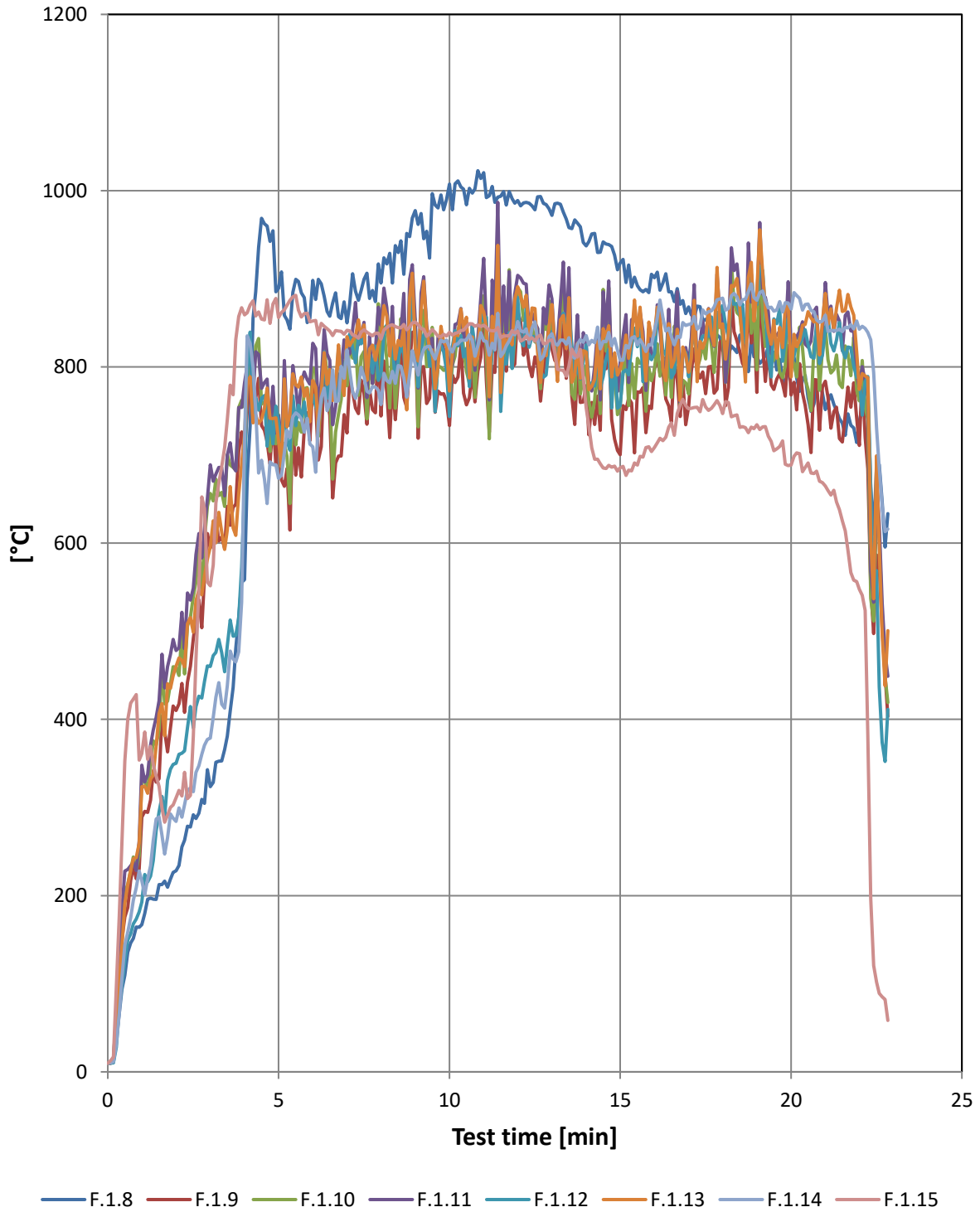




## Vertical measurements on main facade

Min. / °C	F.1.1	F.1.2	F.1.3	F.1.4	F.1.5	F.1.6	F.1.7	F.1.8
0	10	10	10	10	10	10	10	10
1	102	110	123	119	123	123	110	70
2	154	163	166	158	174	159	145	90
3	215	237	256	259	273	249	221	134
4	290	323	354	343	345	356	326	211
5	323	345	341	355	381	356	319	224
6	350	349	361	356	387	358	320	227
7	317	332	337	345	361	350	329	243
8	351	363	379	377	393	390	361	273
9	363	377	395	395	394	400	369	297
10	397	401	427	420	423	447	411	354
11	403	441	467	475	466	494	461	393
12	405	432	449	444	453	466	427	358
13	409	424	437	441	444	451	431	359
14	386	400	422	427	418	438	417	370
15	380	406	418	423	412	443	418	376
16	404	426	442	449	426	473	435	393
17	418	413	430	431	412	447	409	376
18	412	429	448	438	418	455	426	398
19	381	431	440	446	430	450	426	383
20	399	434	432	424	412	436	409	374
21	359	417	407	405	398	419	401	357
22	727	402	393	392	379	405	384	354

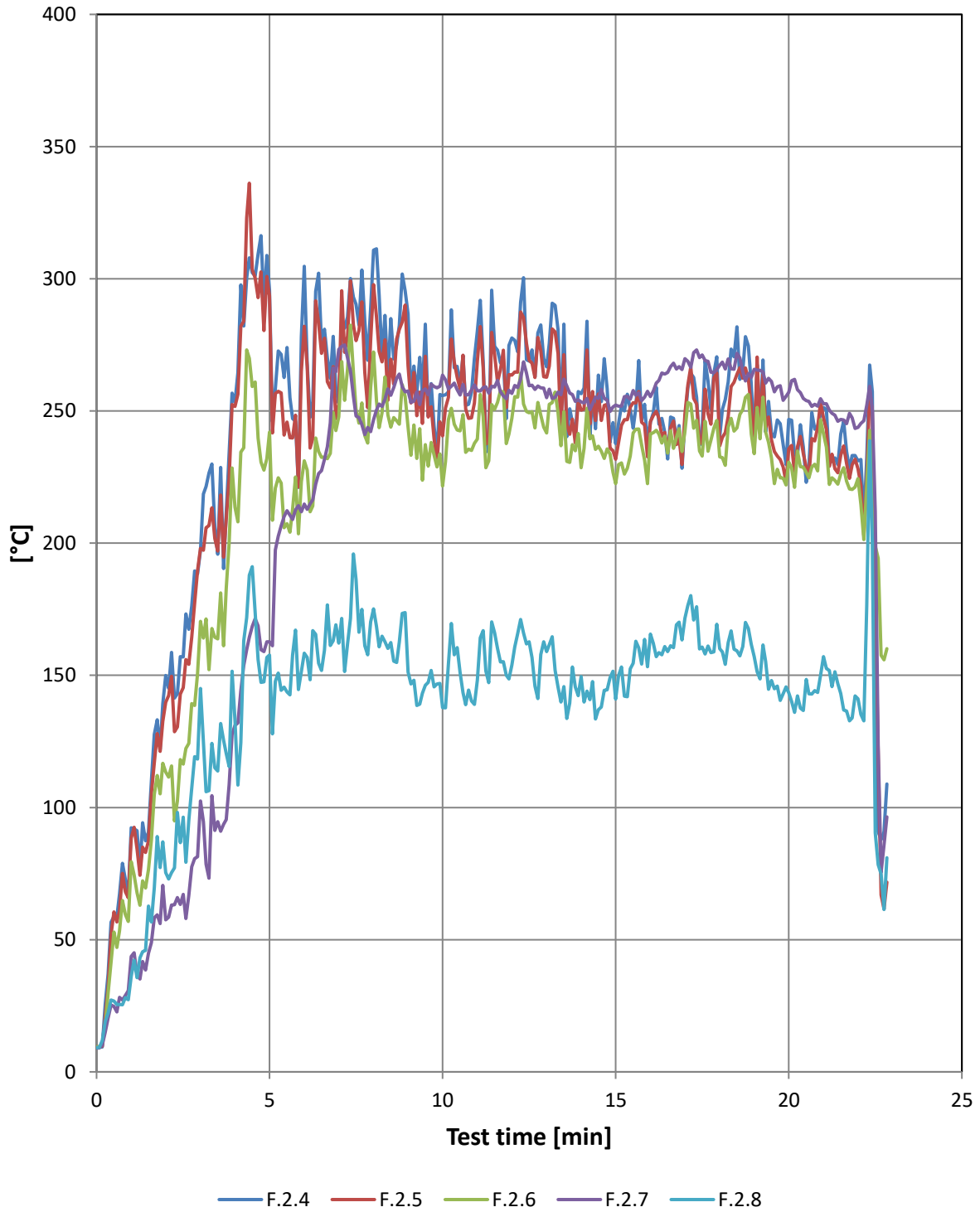
### Vertical measurements on main facade



## 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	10	10	10	10	10	10	10	10
1	167	289	335	348	193	324	217	361
2	228	410	459	478	350	460	284	311
3	324	594	656	689	460	596	379	552
4	558	702	754	782	664	724	716	859
5	889	743	746	745	738	716	673	856
6	898	781	798	827	768	785	709	852
7	850	725	779	827	823	834	819	842
8	895	744	792	847	792	833	757	832
9	977	840	853	853	833	821	802	851
10	1008	733	763	805	744	773	822	839
11	1021	856	881	923	852	862	829	847
12	989	864	890	904	879	891	852	841
13	972	820	840	877	840	871	838	831
14	937	779	802	826	825	817	835	754
15	918	700	756	805	756	797	807	686
16	901	797	797	816	815	836	841	708
17	868	755	769	803	789	794	848	752
18	818	830	833	862	870	849	878	747
19	812	771	797	871	871	885	876	734
20	806	768	810	822	800	789	866	689
21	752	784	845	896	842	884	859	665
22	738	711	762	777	788	774	843	548

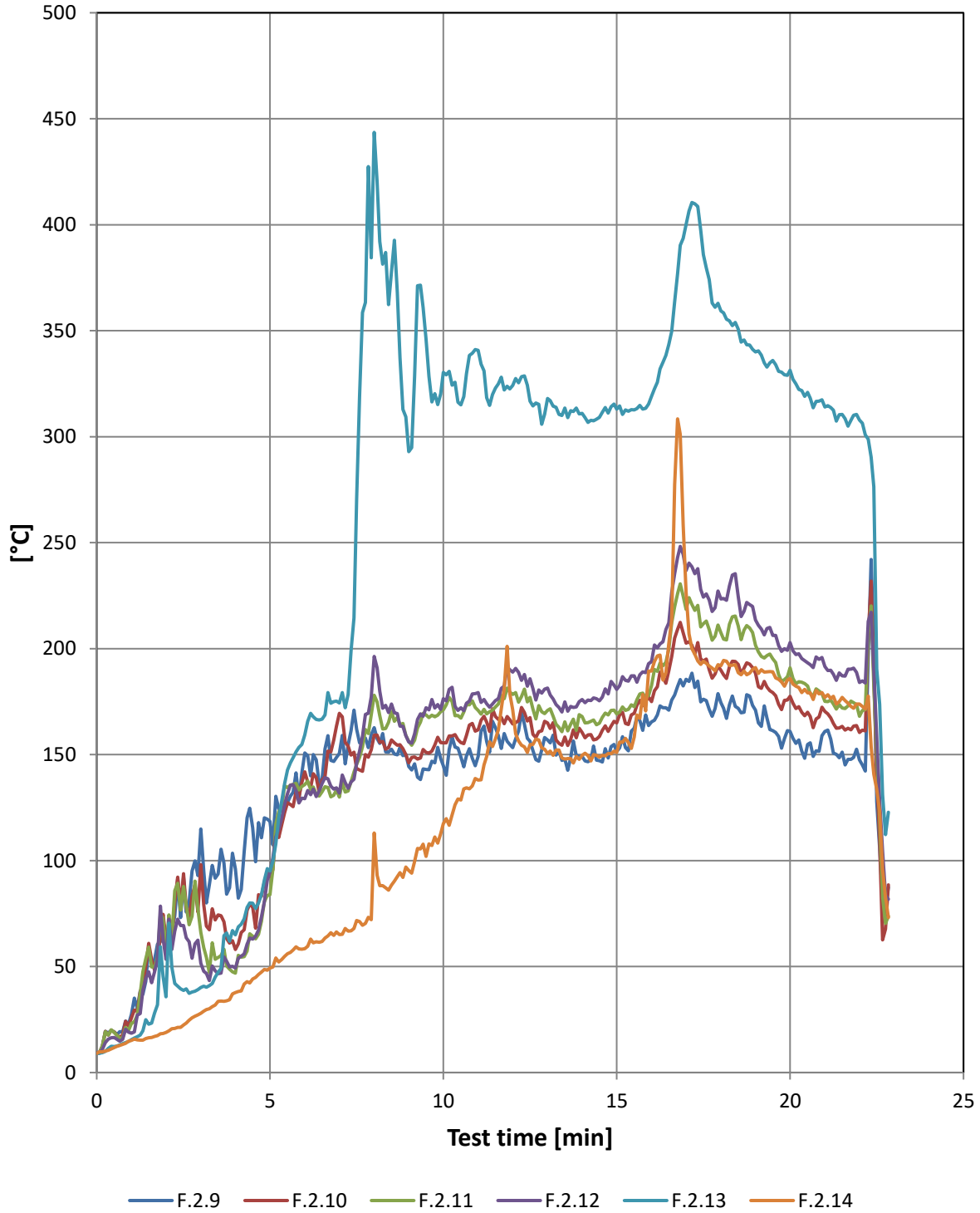
### Vertical measurements on the wing



## Vertical measurements on the wing

Min. / °C	F.2.4	F.2.5	F.2.6	F.2.7	F.2.8
0	9	9	10	9	9
1	92	88	79	44	36
2	150	140	113	58	75
3	197	198	170	103	145
4	253	252	214	131	133
5	296	294	242	163	158
6	305	282	231	215	158
7	253	252	248	273	162
8	311	298	272	247	175
9	287	267	244	258	151
10	256	241	222	264	138
11	280	269	239	258	148
12	278	264	247	257	154
13	267	263	242	255	159
14	256	250	229	253	150
15	238	232	222	252	141
16	246	246	241	255	166
17	246	249	242	270	172
18	240	237	233	267	160
19	238	234	234	266	157
20	247	236	231	257	143
21	251	247	241	253	157
22	231	228	224	244	141

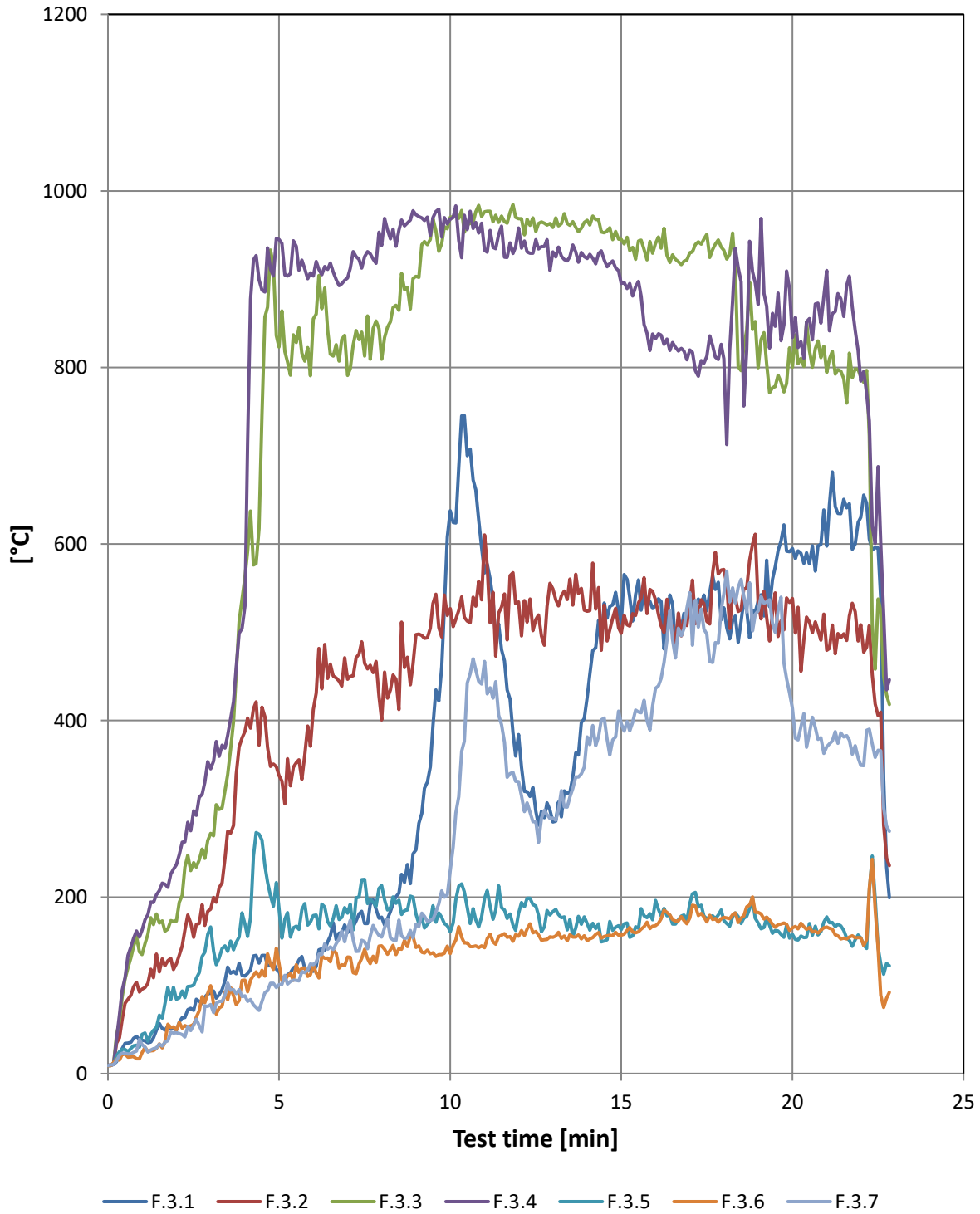
### Vertical measurements on the wing



## 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	9	9	9	9	9	9
1	27	26	23	18	15	15
2	65	63	57	53	36	19
3	115	98	66	51	40	28
4	96	58	47	49	65	38
5	119	92	84	94	95	49
6	151	142	136	129	159	58
7	151	170	130	132	174	65
8	163	159	178	196	444	113
9	144	146	156	156	293	95
10	145	156	171	176	330	117
11	149	162	171	179	341	138
12	153	165	178	189	324	171
13	157	165	171	181	318	150
14	149	160	168	176	311	150
15	151	165	169	181	313	151
16	165	175	183	194	319	189
17	186	203	219	237	400	226
18	174	190	207	223	359	192
19	171	188	202	214	340	191
20	161	178	191	203	331	186
21	161	170	175	192	314	177
22	148	160	168	184	308	174

### Horizontal measurements

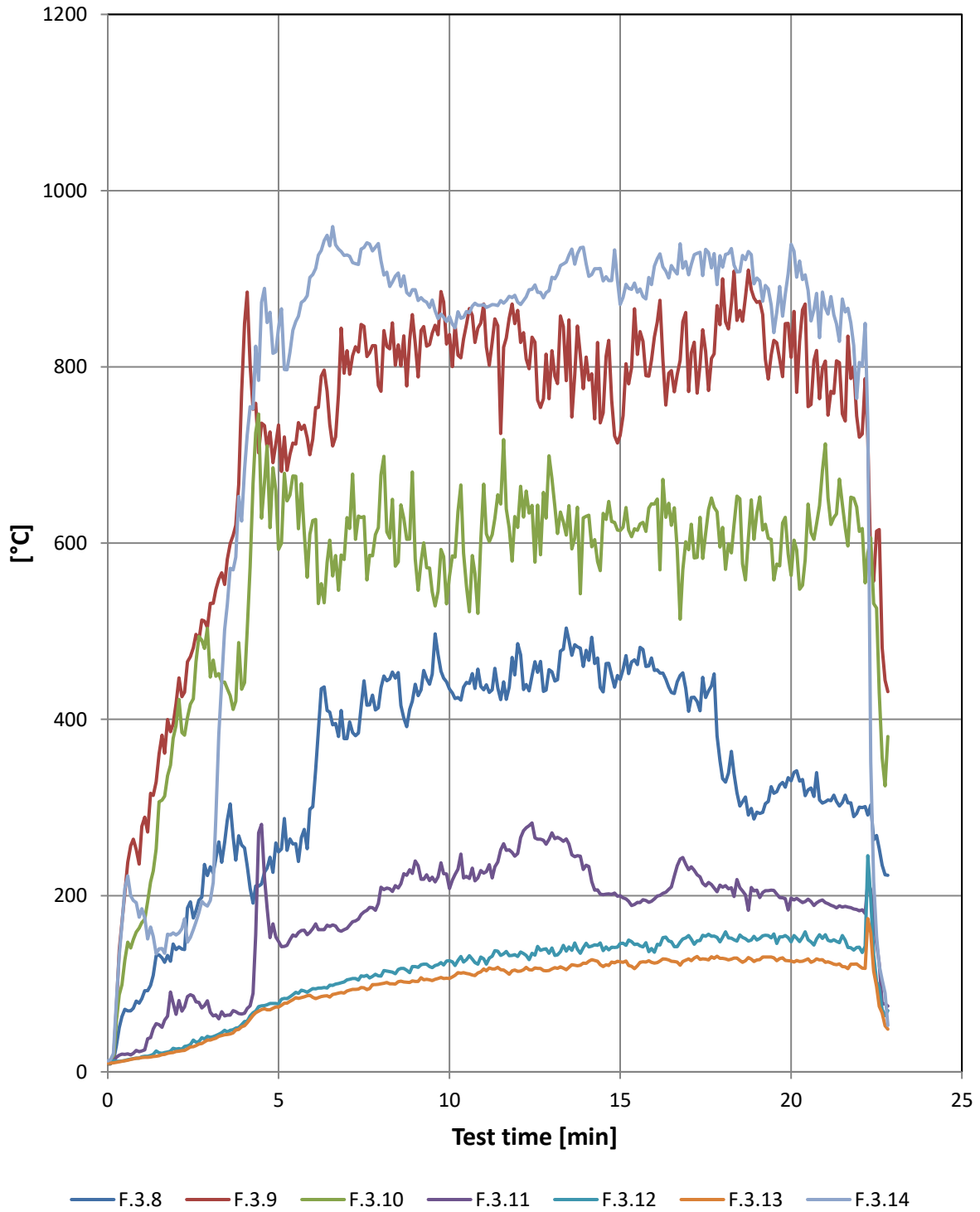




## Horizontal measurements

Min. / °C	F.3.1	F.3.2	F.3.3	F.3.4	F.3.5	F.3.6	F.3.7
0	9	9	9	9	9	9	9
1	38	96	135	163	44	24	33
2	49	124	173	237	84	49	46
3	91	186	272	345	166	100	78
4	110	388	563	530	169	106	88
5	116	338	823	945	187	125	101
6	116	413	855	903	179	123	123
7	160	447	791	902	182	132	163
8	177	401	809	938	213	145	155
9	254	498	903	973	181	143	169
10	638	527	970	968	161	136	230
11	567	610	976	933	198	143	467
12	384	534	969	958	181	156	331
13	285	549	959	931	184	154	290
14	426	524	967	924	170	151	381
15	510	499	945	895	163	157	396
16	530	537	941	833	196	168	436
17	519	535	930	820	193	176	545
18	528	571	933	810	173	177	544
19	535	534	800	871	171	183	524
20	595	538	800	834	158	165	414
21	598	480	794	910	178	166	370
22	630	509	789	785	154	154	349

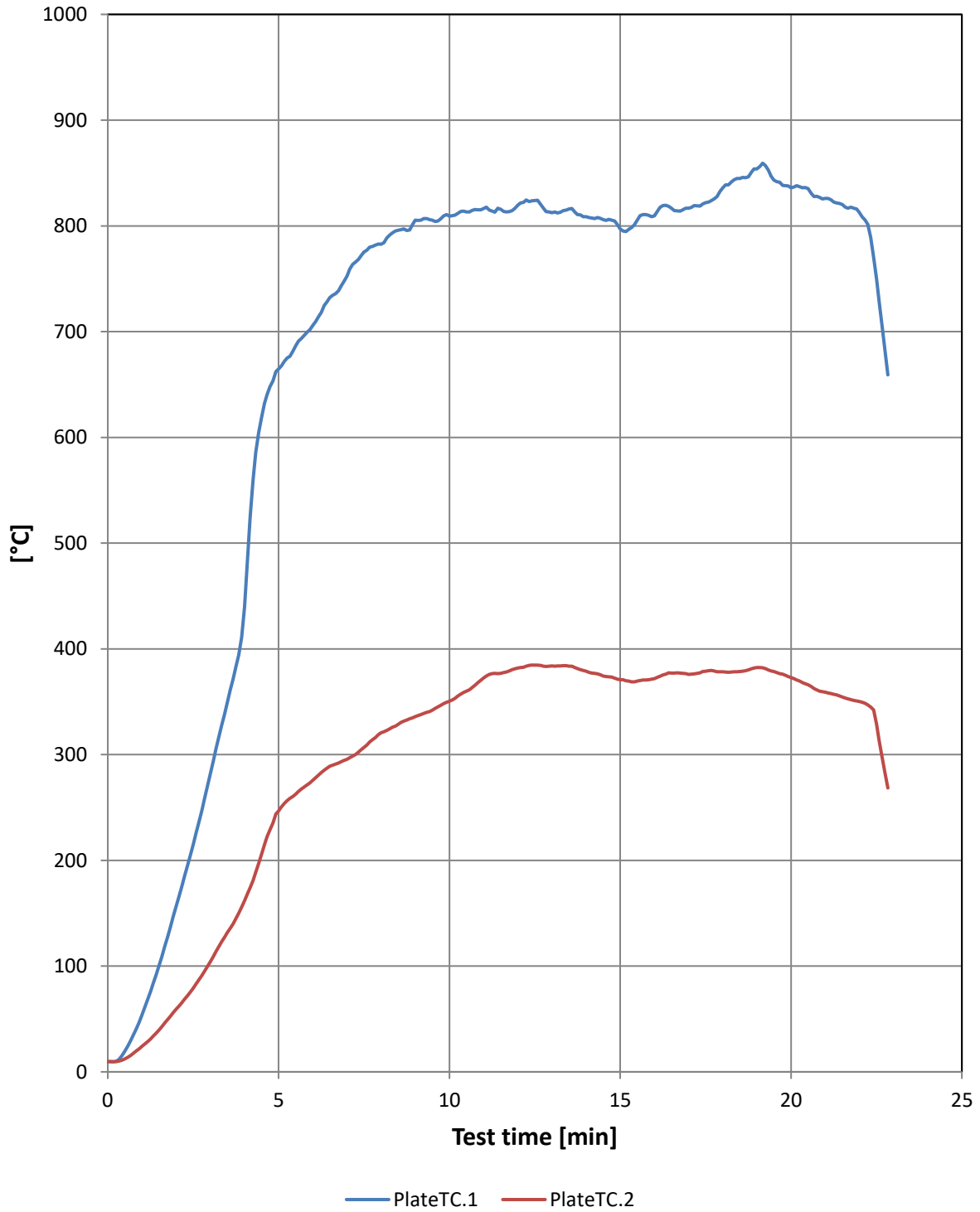
### Horizontal measurements



## 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	9	9	9	10	10	10	12
1	83	279	170	24	17	16	185
2	139	418	393	65	26	23	155
3	233	532	448	68	39	36	194
4	254	849	442	67	57	52	684
5	250	734	593	148	77	74	844
6	301	718	626	163	95	84	905
7	378	818	629	163	105	92	927
8	436	772	677	209	109	100	920
9	440	827	582	239	120	103	887
10	434	837	563	208	126	106	857
11	434	871	667	225	128	117	871
12	486	864	618	248	131	114	873
13	454	818	673	271	140	117	902
14	479	811	630	234	146	123	917
15	445	722	614	200	146	125	871
16	456	834	644	196	136	123	914
17	409	772	592	229	155	128	904
18	333	900	618	209	153	129	913
19	295	873	634	206	150	127	901
20	330	811	563	197	147	126	939
21	306	806	713	192	156	124	867
22	300	720	613	183	141	120	805

### Plate thermocouple on facade



*FacadePlateTC.1 Bottom  
FacadePlateTC.2 Top*

## Plate thermocouple on facade

Min. / °C	PlateTC.1	PlateTC.2
0	10	10
1	53	24
2	156	59
3	282	104
4	440	162
5	665	247
6	706	276
7	753	296
8	783	321
9	805	336
10	809	351
11	816	373
12	820	382
13	812	384
14	809	379
15	797	371
16	809	372
17	817	376
18	836	378
19	854	382
20	836	373
21	826	359
22	813	350

*FacadePlateTC.1 Bottom*

*FacadePlateTC.2 Top*



Photo No. 1 Prefabricated elements before mounted to the façade rig.



Photo No. 2 Flashing added around the windows and fire chamber.

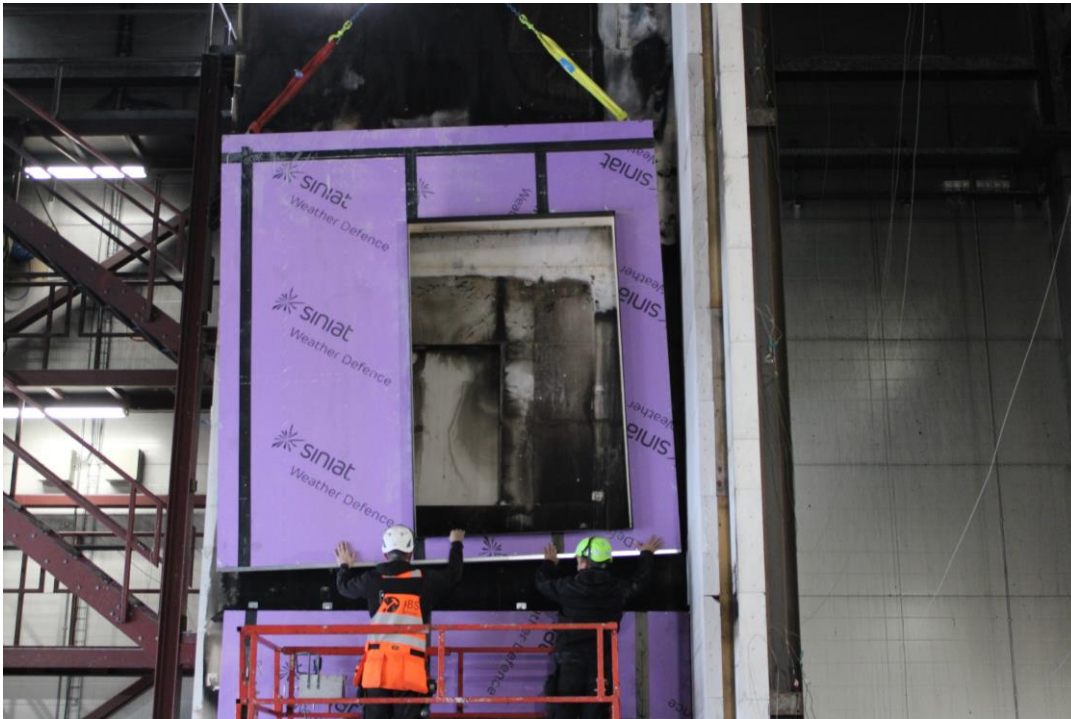


Photo No. 3 Prefabricated elements being mounted.



Photo No. 4 Fixing of prefabricated elements.



Photo No. 5 Tight insulation placed between the prefabricated elements

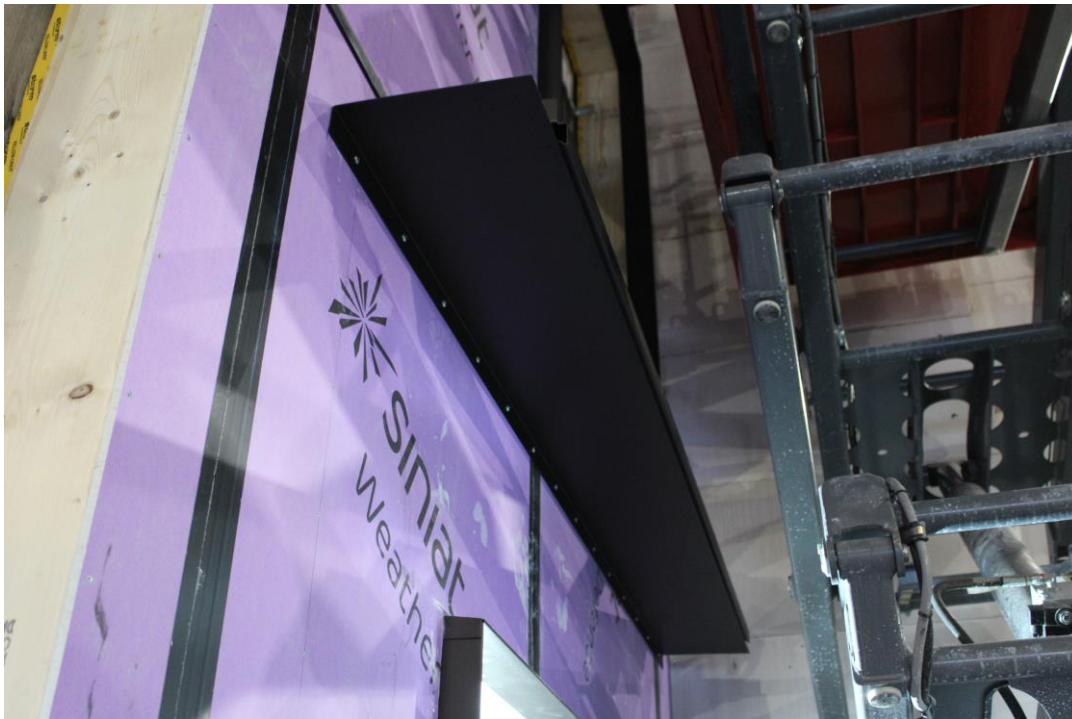


Photo No. 6 Flame deflection added to prefabricated elements





Photo No. 7 Vertical steel projector added to the prefabricated elements.



Photo No. 8 Horizontal and vertical formworks have been mounted.



Photo No. 9 Vertical and horizontal cladding have been mounted.



Photo No. 10 Façade before start test.



Photo No. 11 Test specimen at start test.



Photo No. 12 Test specimen 1 minute into the test.



Photo No. 13 Test specimen 3 minutes into the test.



Photo No. 14 Test specimen 4 minutes into the test.



Photo No. 15 Test specimen 5 minutes into the test.



Photo No. 16 Test specimen 7 minutes into the test.



Photo No. 17 Test specimen 10 minutes into the test.



Photo No. 18 Test specimen 16 minutes into the test.



Photo No. 19 Test specimen 21 minutes into the test.



Photo No. 20 Test specimen 22 minutes into the test.



Photo No. 21 Test specimen stop



Photo No. 22 Test specimen after the test





Photo No. 23 Test specimen after the test. Detailed photo of the façade



Photo No. 24 Test specimen after the test. Detailed photo of 1. Floor bottom.



Photo No. 25 Test specimen after the test. Detailed photo of 1. Floor right frame.



Photo No. 26 Test specimen after the test. Detailed photo of 1. Floor left top corner.



Photo No. 27 Test specimen after the test. Detailed photo of 2. Floor left bottom corner.



Photo No. 28 Test specimen after the test. Detailed photo of 2. Floor left top corner.

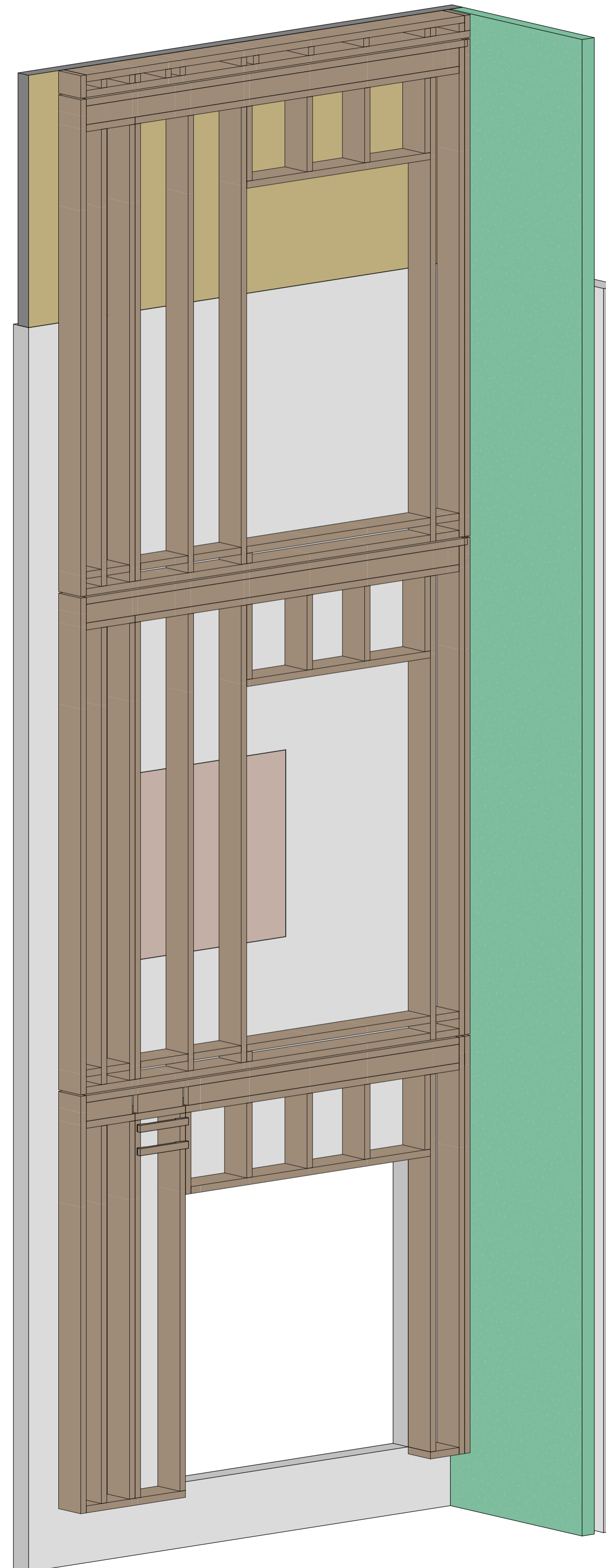
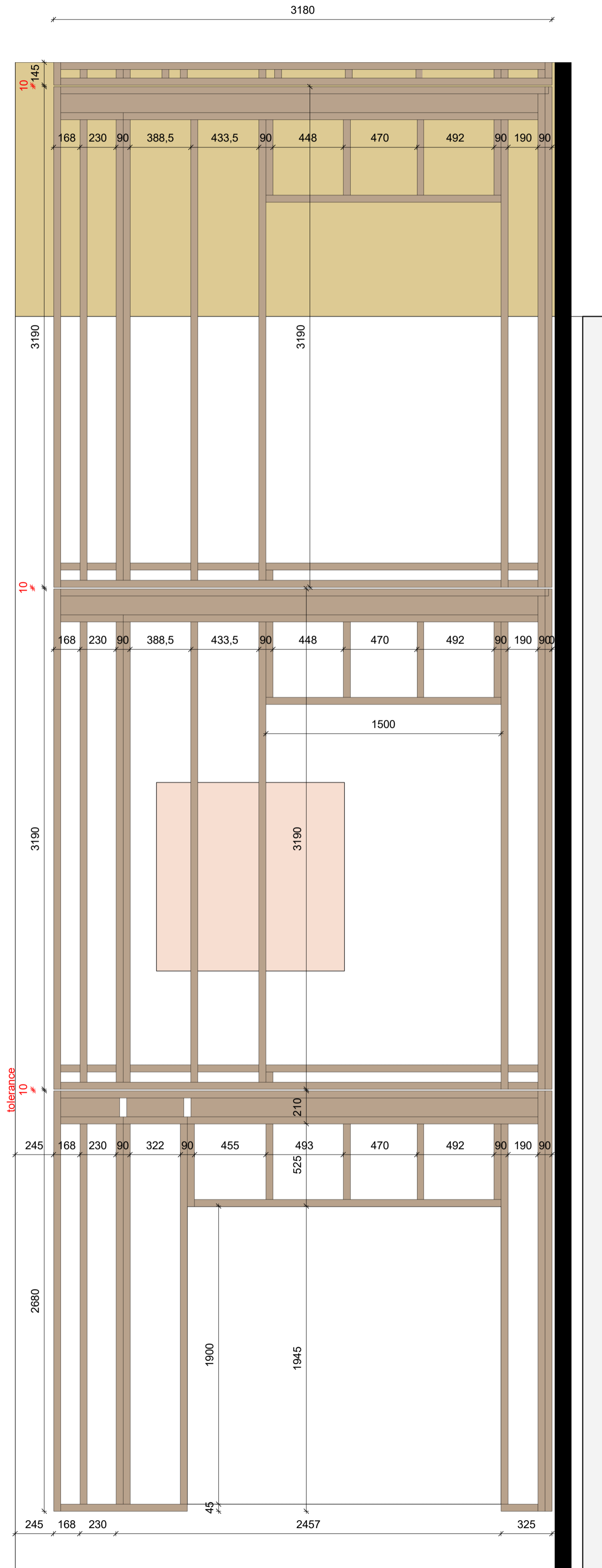


Photo No. 29 Test specimen after the test. Detailed photo of 2. Floor right top corner.



Photo No. 30 Test specimen after the test. Detailed photo of 2. Floor right bottom corner.





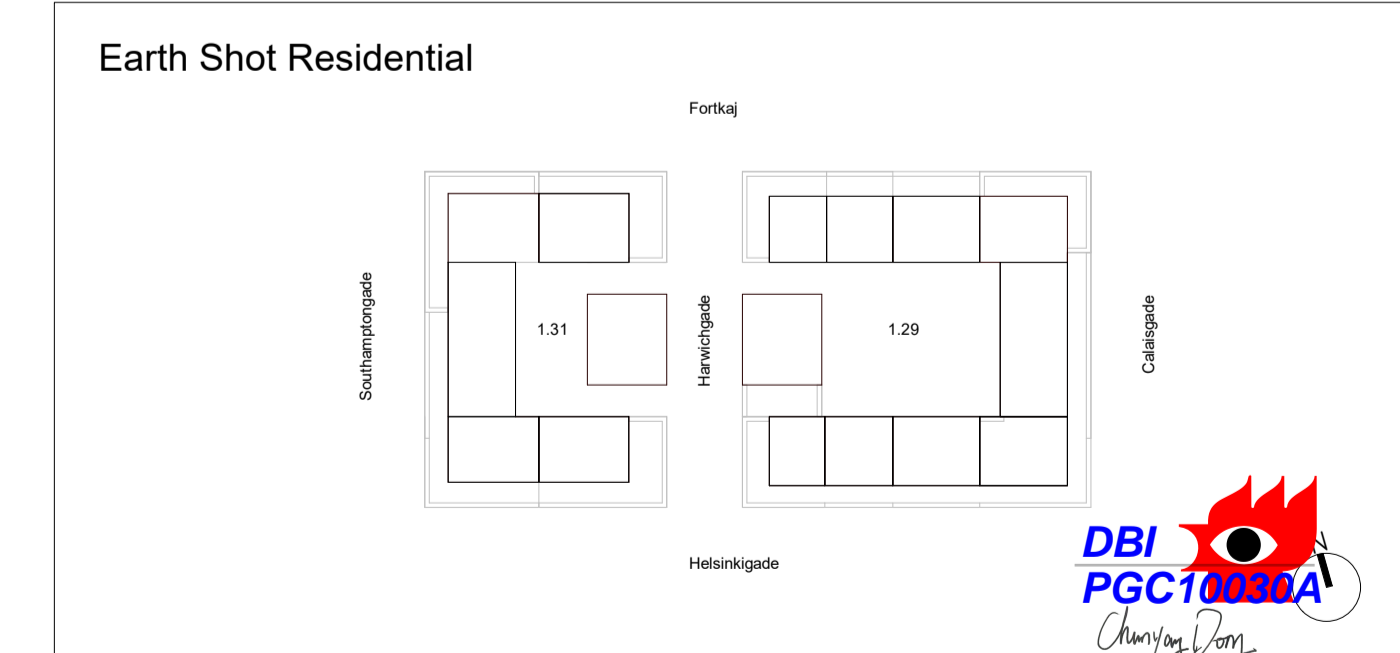
- Materialer:**  
 Metal korrosionsklasse C4  
 Facade:  
 45x220 C24 Reglar:  
 Fastgørelser af reglar til facaderig skruer som DBI plejer:
- Isolering klasse A indblæst til kl. 34:**  
 isover isolatsafe Densitet >= 30 kg/m<sup>3</sup> 0,034 l-l-værdi (W/m K)
- vindspærresystem Sinat Weather Defence 9,5mm  
 Isover Wall-blanket på bagside for indblæsning.  
 Derefter PE folie 0,2mm
- Facadebeklædning  
 Moelven ThermoWood - profil 3301 x 5"  
 (netto ca. 21 x 118 mm)  
 Klink Facadebeklædning Finsavet.  
 Profilbrædderne fastgøres med Ringsøm - TJEP 2,5x50mm Rustfri, linsehoved et stk / brædt i hver afstandsliste.
- Afstandsliste, 25x45 mm Vandret  
 - Trykprægneret  
 (godkendt jf. biocidforordningen EU 528/2012)  
 Neoprenklodser 8x50x100mm  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Afstandsliste, 25x45 mm Lodret  
 - Trykprægneret  
 (godkendt jf. biocidforordningen EU 528/2012)  
 - Fastgøres af afstandsliste med Ringsøm -  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Metalfacade  
 0,75mm opbukket facade kassetter  
 Farve sort Matt
- Fastgørelser:**  
 Skruer til Flammeafbejler.  
 Type: RedHorse CORONA™ RXB 4.8 X 60 #1 TX20 EPDM-9.5B - pr. 200mm C/C i 20mm langhuller
- Skruer til fastgørelse af **Bøjler** i lodret facadesøjle.  
 Type: RedHorse CORONA™ RXB 4.8 X 60 #1 TX20 EPDM-9.5B  
 2 stk / bøjle
- Skruer til fastgørelse af Z-profiler på facade.  
 Type: Fastgøres med RF Skruer m. boretspids, RedHorse CORONA™ RXB 4.8 X 60 #1  
 TX20EPDM-9.5B1 stk. / 450mm c/c
- Skruer til **laskplader** i lodretstående søjler på flammeafbejler.  
 Type: DS Montageskruer til stålunderlag 5,5 x 25 mm 6-kl. hoved Galvaniseret/2+ DB Nummer  
**1292807** 10 stk / laskplade, skrues 3 stk. på hver side af samlinger 15mm fra kanten. og 4  
 stk. for fastholdelse.
- Skruer til fastgørelse af **lysninger** på bøjler og flanger i lodrette facadesøjler.  
 Type: DS Montageskruer til stålunderlag 4,8 x 22 mm Torx Galvaniseret/2+ DB Nummer  
**1877444**
- Søm til fastgørelse af **Afstandsliste af træ** på vindgips og underlag af reglar:  
 Type: TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Skruer til fastgørelse af **gips** på træ:  
 Type: Spit hårdgipskruer, ELFZ, 4,2 x 42mm must be used when fixing in wood.  
 skrues med kantafstand 10-15mm max. 300mm c/c afstand maks. c/c stolpeafstand 600mm
- TAPE TIL VINDGIPS  
 Paroc XST 042 Cortex B-Tape, 60mm, sort

Myndighedsprojekt

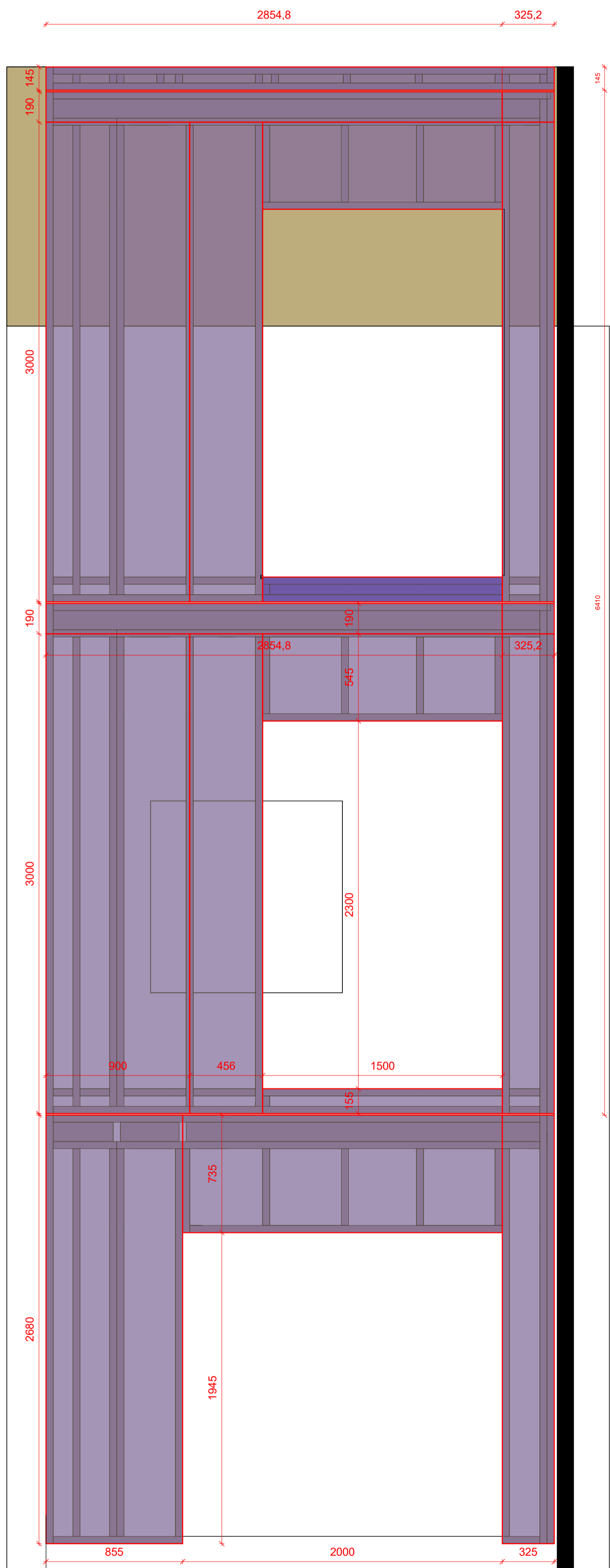
ESR\_K01\_H4\_EXX\_N3011

Mock-up  
2023-11-28

REV.	DATO	EMNE	TEGN.	GOOR.



EMNE:	SAG NR.:	1960020071
Trærammer	MÅLESTOK:	1 : 20
	DATO:	2023-10-09
	TEGN:	Author
	KONTROL:	Checker
	GOIKENDIT:	Approver
	FORMAT:	
	TEGN NR.:	
	REV.:	



Taasinge z-profil i vandrette samlinger i mellem elementer  
 Montage af vindgips iht. Sinia\_Weather\_defence\_ Godkendelse.pdf SKAL UDLEVERES TIL DE UDFØRENDE  
 Nedenstående er er udsklip fra vejledning  
 Skrue til fastgørelse af gips på træ.  
 Type: Spit hårdgipskrue, ELFZ, 4,2 x 42mm.  
 skrues med kantafstand 10-15mm max. 300mm c/c afstand maks. c/c stolpeafstand 600mm

**TAPE TIL VINDGIPS**  
 Paroc XST 042 Cortex B-Tape, 60mm, sort

**Installation**  
 Weather Defence is installed on studs with maximum centre distance c/c 600 mm. The boards are installed on a frame with screws of type Spit hårdgipskrue, ELFZ, 4,2 x 42mm at intervals of maximum 300 mm in all board joints and in the middle section of the boards. The screw heads must be flush with the surface of the board. The distance from the screws to the edge of the boards must be at least 10 mm and at least 15 mm from edges where the gypsum core is exposed. For contact with base, windows, doors, roof, and bushings, see relevant instructions in Byggeforskeriet. A silicone sealant shall be used in junctions between Weather Defence and other framing materials.

In general, it is recommended to cover the wind barrier with an external cladding as soon as possible. However, it is considered that the wind barrier system can remain uncovered, as indicated in clause 4 "Properties", provided that the building is not subjected to large amounts of driving rain. It is also a prerequisite that all joints are protected with tape and that all board edges (for instance along the bottom, sides and top of the wall, and around wall penetrations) are protected against rain.

When the boards are used for wind bracing, as specified in section 4, all board edges shall be supported by studs of at least 45 mm width.

**Screws**  
 Spit hårdgipskrue, ELFZ, 4,2 x 42mm screws with length of at least 42 mm must be used when fixing in wood.

**Sealing of joints**  
 SIGA Wigluv sealing tape, with a width of at least 50 mm, must be used. Horizontal joints must be sealed with two tape strips where the upper tape strip overlaps the lower tape strip with 25 mm before the vertical joints are sealed. The surface of the boards must be dust-free and dry before the tape is applied. The manufacturer's instructions must be followed.

**Transport and storage**  
 The boards shall be covered during transport and stored on a levelled support in dry conditions.

Røde mål gips

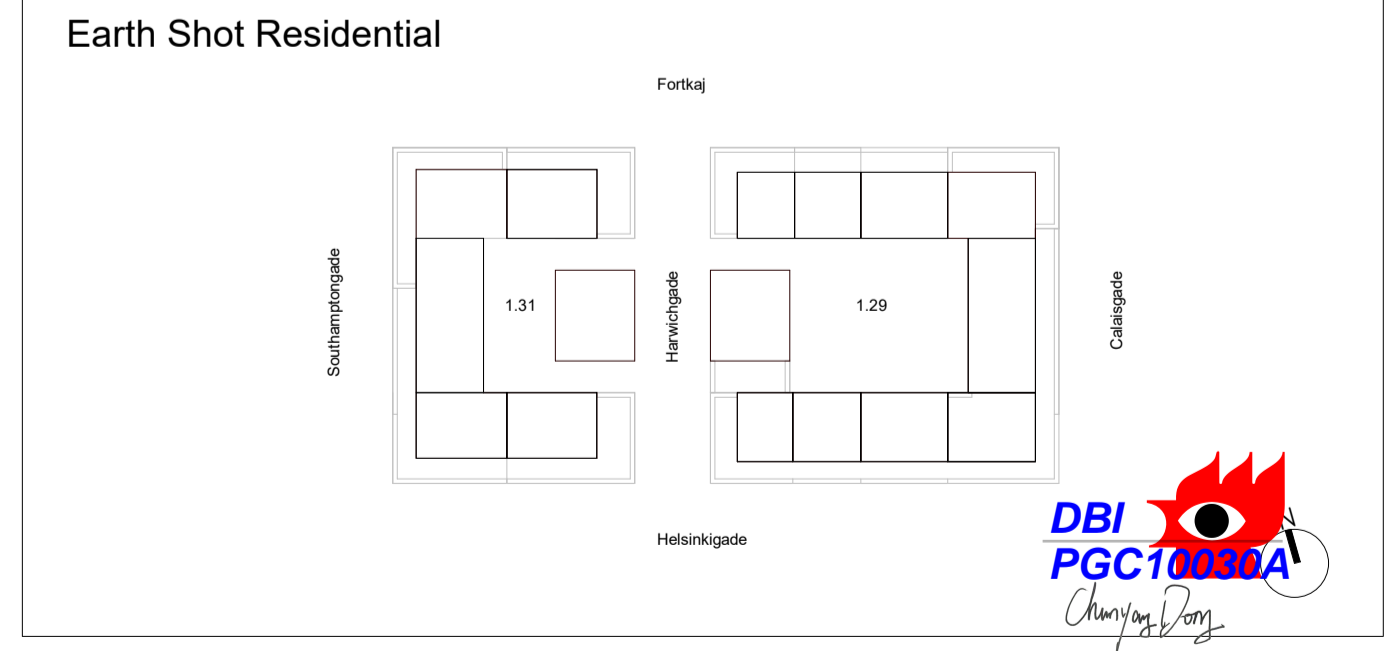
- Materialer:**  
 Metal korrosionsklasse C4  
 Facade:  
 45x220 C24 Reglar:  
 Fastgørelser af reglar til facaderig skruer som DBI plejer:
- Isolering klasse A indblæses til kl. 34:**  
 isover isolatsafe Densitet >= 30 kg/m<sup>3</sup> 0,034 l l-værdi (W/m K)
- vindspærresystem Sinia Weather Defence 9,5mm  
 Isover Wall-blanket på bagside for indblæsning.  
 Derefter PE folie 0,2mm
- Facadebeklædning  
 Moelven ThermoWood - profil 3301 x 5"  
 (netto ca. 21 x 118 mm)  
 Klinsk Facadebeklædning Finsavet.  
 Profilrædderne fastgøres med Ringsøm - TJEP 2,5x50mm Rustfri, linsehoved et stk / brædt i hver afstandsliste.
- Afstandsliste, 25x45 mm Vandret  
 - Trykimpregneret (godkendt jf. biocidforordningen EU 528/2012)  
 Neoprenklodser 8x50x100mm  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Afstandsliste, 25x45 mm Lodret  
 - Trykimpregneret (godkendt jf. biocidforordningen EU 528/2012)  
 - Fastgøres af afstandsliste med Ringsøm - TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Metalfacade  
 0,75mm opbukket facade kassetter  
 Farve sort Matt
- Fastgørelser:**  
 Skrue til Flammeafbejler.  
 Type: RedHorse CORONA™ RXB 4,8 X 60 #1 TX20 EPDM-9.5B - pr. 200mm C/C i 20mm langhuller
- Skrue til fastgørelse af Bøjler i lodret facadesøjle.  
 Type: RedHorse CORONA™ RXB 4,8 X 60 #1 TX20 EPDM-9.5B  
 2 stk / bøjle
- Skrue til fastgørelse af Z-profiler på facade.  
 Type: Fastgøres med RF Skruer m. borespids, RedHorse CORONA™ RXB 4,8 X 60 #1 TX20EPDM-9.5B1 stk. / 450mm c/c
- Skrue til laskeplader i lodretstående søjler på flammeafbejler.  
 Type: DS Montageskrue til stålunderlag 5,5 x 25 mm 6-kl. hoved Galvaniseret#2+ DB Nummer 1292807 10 stk / laskeplade, skrues 3 stk. på hver side af samlinger 15mm fra kanten. og 4 stk. for fastholdelse.
- Skrue til fastgørelse af lysninger på bøjler og flanger i lodrette facadesøjler.  
 Type: DS Montageskrue til stålunderlag 4,8 x 22 mm Torx Galvaniseret#2+ DB Nummer 1877444
- Søm til fastgørelse af Afstandslistes af træ på vindgips og underlag af reglar.  
 Type: TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Skrue til fastgørelse af gips på træ.  
 Type: Spit hårdgipskrue, ELFZ, 4,2 x 42mm must be used when fixing in wood.  
 skrues med kantafstand 10-15mm max. 300mm c/c afstand maks. c/c stolpeafstand 600mm
- TAPE TIL VINDGIPS  
 Paroc XST 042 Cortex B-Tape, 60mm, sort

Myndighedsprojekt

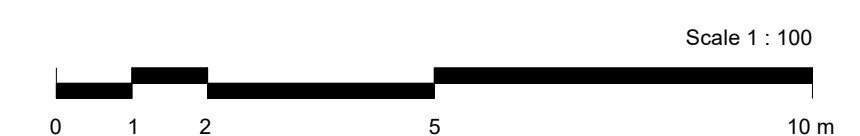
ESR\_K01\_H4\_EXX\_N3012

Mock-up  
 2023-11-28

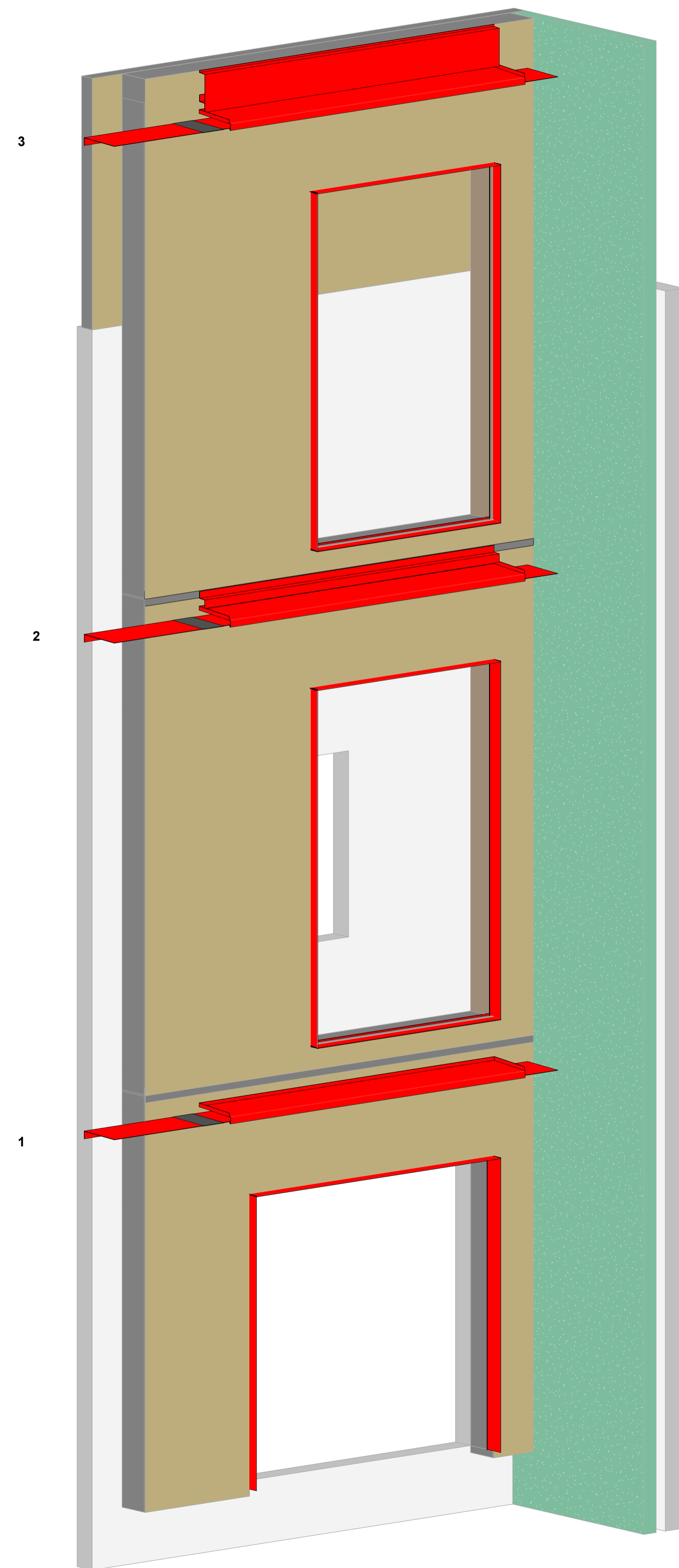
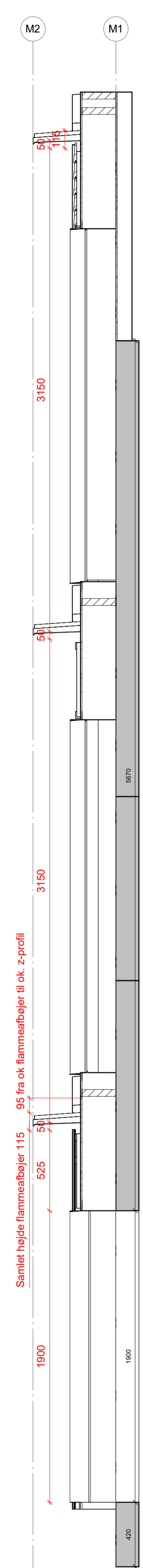
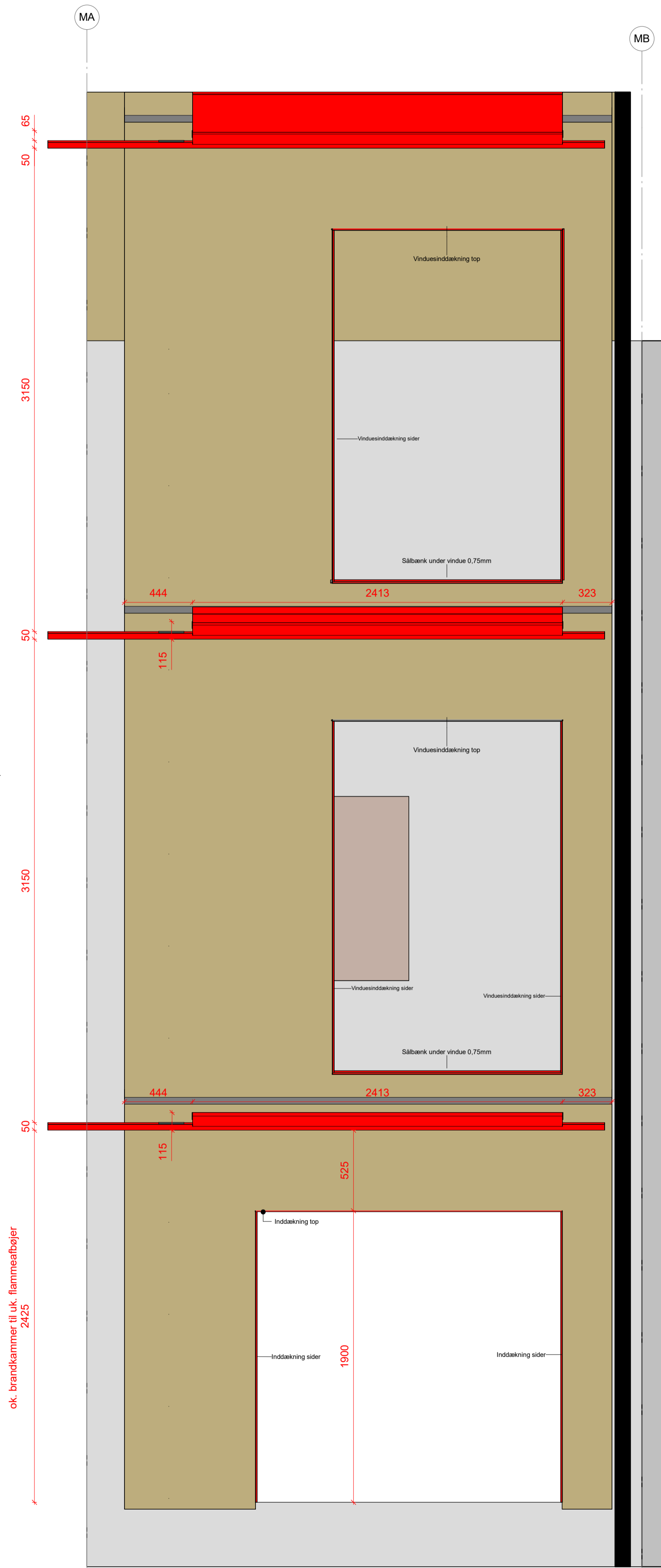
REV.	DATO	EMNE	TEGN.	GOOR.



EMNE:	Gips på trærammer	SAG NR.:	1960020071
MALESTOK:	As indicated	DATO:	2023-10-09
TEGN.:	Author	KONTROL:	Checker
GODKENDT:	Approver	FORMAT:	
TEGN NR.:		REV.:	
<b>ESR_K01_H4_EXX_N3012</b>			



- BYGHERRE : NREP, SOUTHAMPTONGADE 4, DK-2150 NORDHAVN
- ARKITEKT : HENNING LARSEN ARCHITECTS, VESTERBROGADE 76, DK-1620 KØBENHAVN V
- INGENIØR : SØREN JENSEN RÅDGIVENDE INGENIØRFIRMA A/S, FREDERIKSBORRGADE 1, 2. SAL, DK-1360 KØBENHAVN
- LANDSKABSARKITEKT : HENNING LARSEN ARCHITECTS, VESTERBROGADE 76, DK-1620 KØBENHAVN V
- ENTREPRENØR : SE BYG A/S, CORTEX PARK 12, DK-5230 ODENSE M
- TELF: +45 3948 4000
- TELF: +45 8233 3000
- TELF: +45 8612 2011
- TELF: +45 8233 3000
- TELF: +45 6340 4140

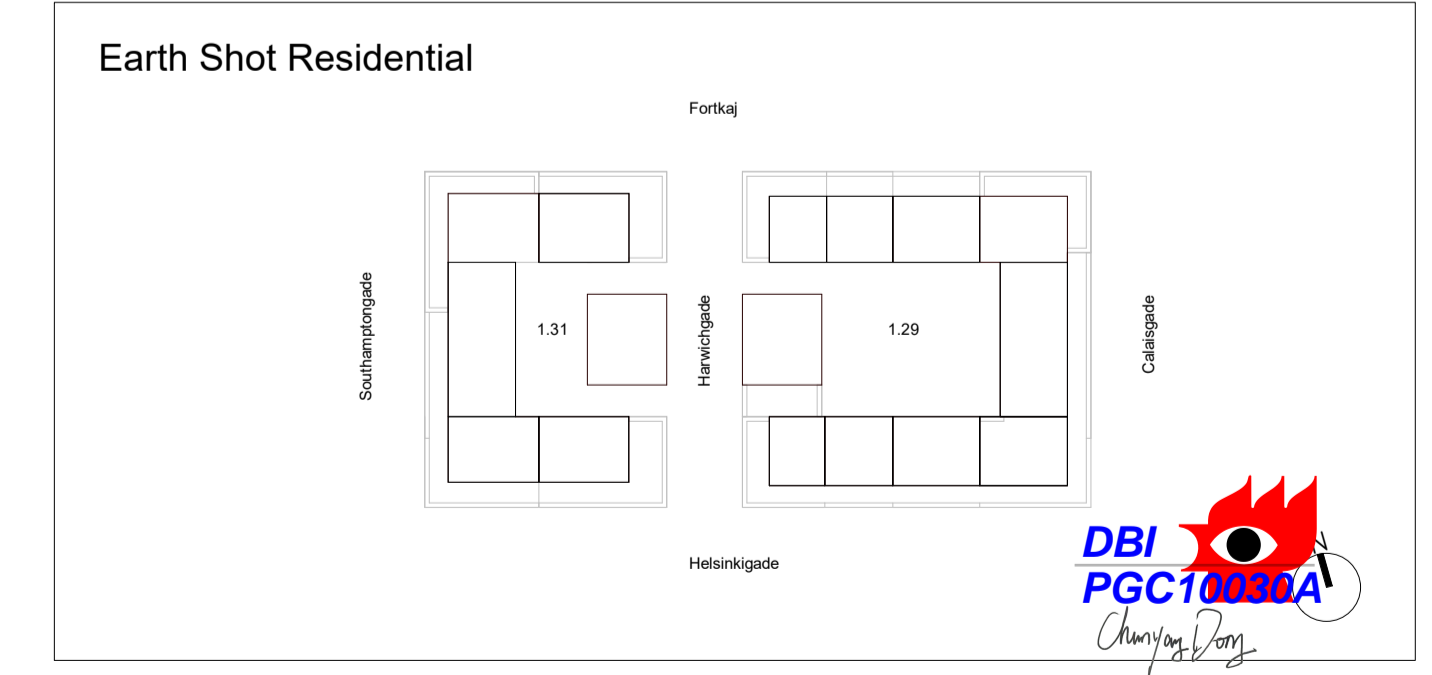


- Materialer:**  
 Metal korrosionsklasse C4  
 Facade:  
 45x220 C24 Reglar:  
 Fastgørelser af reglar til facaderig skruer som DBI plejer:
- Isolering klasse A indblæst til kl. 34:**  
 isover isolulsafe Densitet >= 30 kg/m<sup>3</sup> 0.034 1 λ-værdi (W/m K)
- vindspærresystem Sinat Weather Defence 9.5mm  
 Isover Wall-blanket på bagside for indblæsning.  
 Derefter PE folie 0.2mm
- Facadebeklædning  
 Moelven ThermoWood - profil 3301 x 5"  
 (netto ca. 21 x 118 mm)  
 Klink Facadebeklædning Finsavet.  
 Profilrædderne fastgøres med Ringsøm - TJEP 2,5x50mm Rustfri, linsehoved et stk / brædt i hver afstandsliste.
- Afstandsliste, 25x45 mm Vandret  
 - Trykprægneret  
 (godkendt jf. biocidforordningen EU 528/2012)  
 Neoprenklodser 8x50x100mm  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Afstandsliste, 25x45 mm Lodret  
 - Trykprægneret  
 (godkendt jf. biocidforordningen EU 528/2012)  
 - Fastgøres af afstandsliste med Ringsøm -  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Metalfacade  
 0.75mm opbukket facade kassetter  
 Farve sort Matt
- Fastgørelser:  
 Skruer til Flammeafbøjer.  
 Type: RedHorse CORONA™ RXB 4.8 X 60 #1 TX20 EPDM-9.5B - pr. 200mm C/C i 20mm langhuller
- Skruer til fastgørelse af Bøjler i lodret facadesøjle.  
 Type: RedHorse CORONA™ RXB 4.8 X 60 #1 TX20 EPDM-9.5B  
 2 stk / bøjle
- Skruer til fastgørelse af Z-profiler på facade.  
 Type: Fastgøres med RF Skruer m. borespids, RedHorse CORONA™ RXB 4.8 X 60 #1  
 TX20EPDM-9.5B1 stk. / 450mm c/c
- Skruer til fastgørelse af lysninger på bøjler og flanger i lodrette facadesøjler.  
 Type: DS Montageskruer til stålunderlag 5,5 x 25 mm 6-kl. hoved Galvaniseret#2+DB Nummer 1292807 10 stk / laskeplade, skrues 3 stk. på hver side af samlinger 15mm fra kanten. og 4 stk. for fastholdelse.
- Skruer til fastgørelse af lysninger på bøjler og flanger i lodrette facadesøjler.  
 Type: DS Montageskruer til stålunderlag 4,8 x 22 mm Torx Galvaniseret#2+ DB Nummer 1877444
- Søm til fastgørelse af Afstandslisters af træ på vindgips og underlag af reglar:  
 Type: TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ
- Skruer til fastgørelse af gips på træ:  
 Type: Spit hårdgipskruer, ELFZ, 4,2 x 42mm must be used when fixing in wood.  
 skrues med kantafstand 10-15mm max. 300mm c/c afstand maks. c/c stolpeafstand 600mm
- TAPE TIL VINDGIPS  
 Paroc XST 042 Cortex B-Tape, 60mm, sort

Myndighedsprojekt ESR\_K01\_H4\_EXX\_N3013

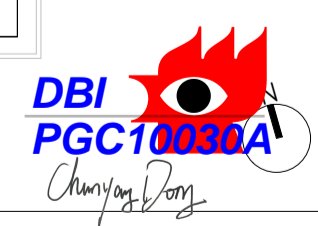
Mock-up  
2023-11-28

REV.	DATO	EMNE	TEGN.	GOOR.



EMNE:	SAG NR.	1960020071
Gips og flammeafbøjer og inddækninger brandkammer	MALESTOK	1 : 20
	DATO	2023-10-09
	TEGN.	Author
	KONTROL	Checker
	GOIKENDIT	Approver
	FORMAT	
	TEGN NR.	
	REV.:	

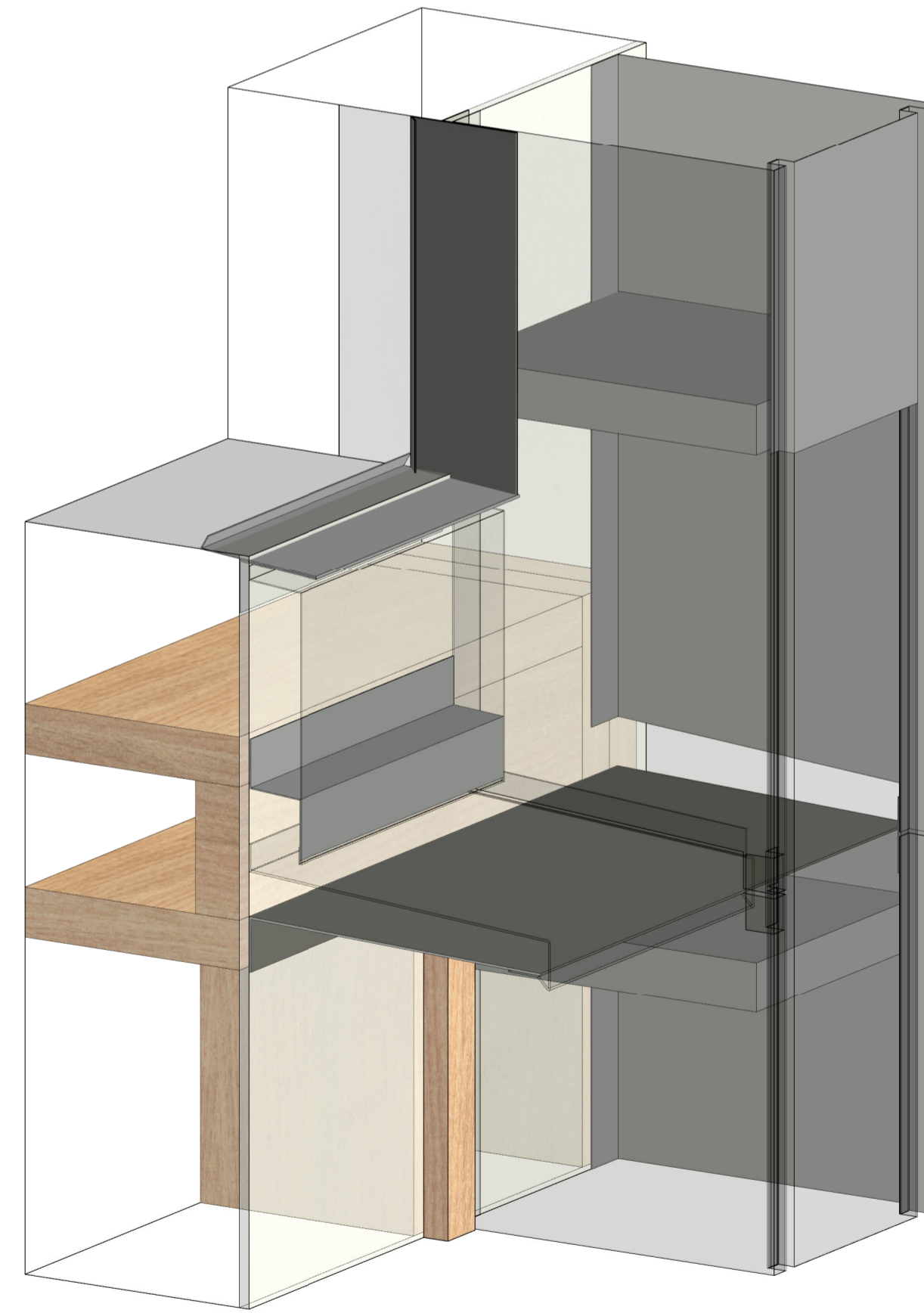
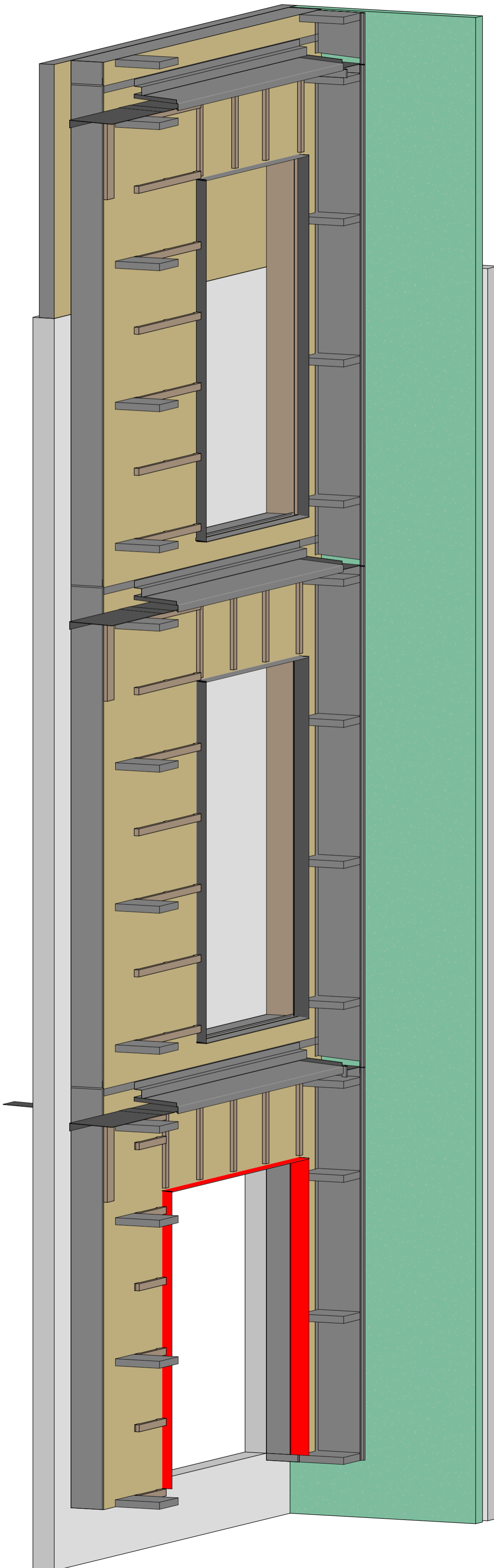
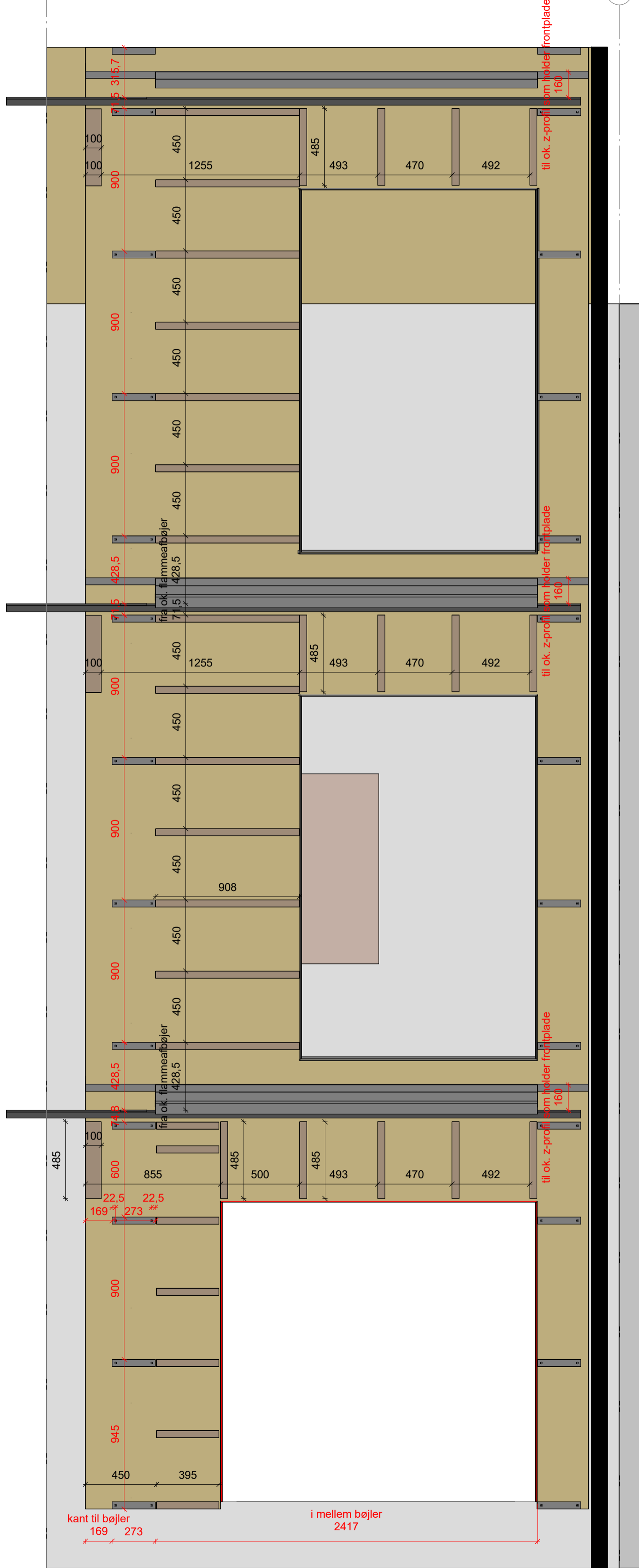
- BYGHERRE : NREP, SOUTHAMPTONGADE 4, DK-2150 NORDHAVN, TLF: +45 3948 4000
- ARKITEKT : HENNING LARSEN ARCHITECTS, VESTERBROGADE 76, DK-1620 KØBENHAVN V, TLF: +45 8233 3000
- INGENIØR : SØREN JENSEN RÅDGIVENDE INGENIØRFIRMA A/S, FREDERIKSBORGADE 1, 2. SAL, DK-1360 KØBENHAVN, TLF: +45 8612 2011
- LANDSKABSARKITEKT : HENNING LARSEN ARCHITECTS, VESTERBROGADE 76, DK-1620 KØBENHAVN V, TLF: +45 8233 3000
- ENTREPRISER : SE BYG A/S, CORTEX PARK 12, DK-5230 ODENSE M, TLF: +45 6340 4140





MA

MB



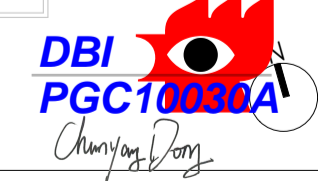
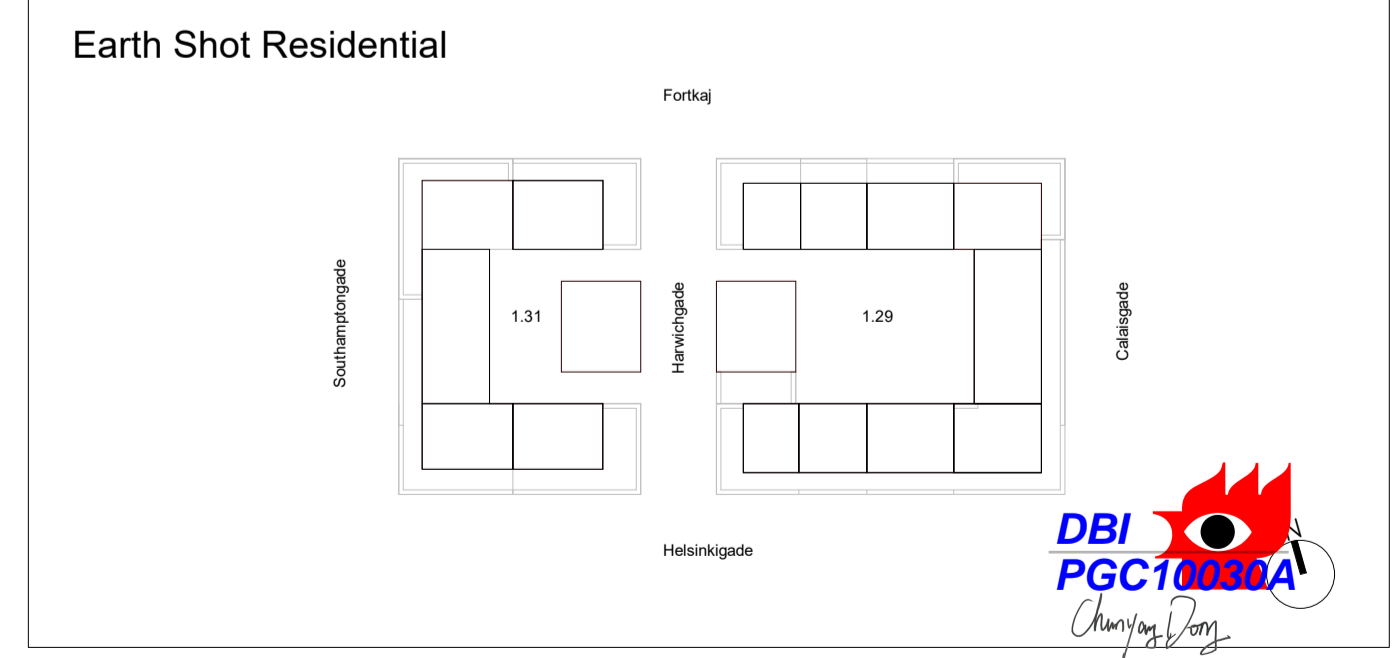
- Materialer:  
 Metal korrosionsklasse C4  
 Facade:  
 45x220 C24 Reglar:  
 Fastgørelser af reglar til facaderig skruer som DBI plejer:  
**Isolering Klasse A indblæst til kl. 34:**  
 Isover insulSAFE Densitet >= 30 kg/m<sup>3</sup> 0,034 1 λ-værdi (W/m K)  
 vindspærresystem Sinat Weather Defence 9,5mm  
 Isover Wall-blanket på bagside for indblæsning.  
 Derefter PE folie 0,2mm  
 Facadebeklædning  
 Moelven ThermoWood - profil 3301 x 5"  
 (netto ca. 21 x 118 mm)  
 Klink Facadebeklædning Finsavet.  
 Profilrædderne fastgøres med Ringsøm - TJEP 2,5x50mm Rustfri, linsehoved et stk / brædt i hver afstandsliste.  
 Afstandsliste, 25x45 mm Vandret  
 - Tykkemåneret (godkendt jf. biocidforordningen EU 528/2012)  
 Neoprenklodser 8x50x100mm  
 TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ  
 Afstandsliste, 25x45 mm Lodret  
 - Tykkemåneret (godkendt jf. biocidforordningen EU 528/2012)  
 - Fastgøres af afstandslisters med Ringsøm - TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ  
 Metallafacade  
 0,75mm opbukket facade kassetter  
 Farve sort Matt  
 Fastgørelser:  
 Skruer til Flammeafbejler.  
 Type: RedHorse CORONA™ RXB 4,8 X 60 #1 TX20 EPDM-9.5B - pr. 200mm C/C i 20mm langhuller  
 Skruer til fastgørelse af Bøjler i lodret facadesøjle.  
 Type: RedHorse CORONA™ RXB 4,8 X 60 #1 TX20 EPDM-9.5B  
 2 stk / bøjle  
 Skruer til fastgørelse af Z-profiler på facade.  
 Type: Fastgøres med RF Skruer m. borspids, RedHorse CORONA™ RXB 4,8 X 60 #1 TX20EPDM-9.5B 1 stk. / 450mm c/c  
 Skruer til laskeplader i lodretstående søjler på flammeafbejler.  
 Type: DS Montageskruer til stålunderlag 5,5 x 25 mm 6-kl. hoved Galvaniseret/2+ DB Nummer 1292807 10 stk / laskeplade, skrues 3 stk. på hver side af samlinger 15mm fra kanten. og 4 stk. for fastholdelse.  
 Skruer til fastgørelse af lysninger på bøjler og flanger i lodrette facadesøjler.  
 Type: DS Montageskruer til stålunderlag 4,8 x 22 mm Torx Galvaniseret/2+ DB Nummer 1877444  
 Søm til fastgørelse af Afstandslisters af træ på vindgips og underlag af reglar:  
 Type: TJEP GR 3,1x90 mm, varmgalv. pr 600mm c/c min 50mm fra endetræ  
 Skruer til fastgørelse af gips på træ.  
 Type: Spit hårdgips skrue, ELFZ, 4,2 x 42mm must be used when fixing in wood. skrues med kantafstand 10-15mm max. 300mm c/c afstand maks. c/c stolpeafstand 600mm  
 TAPE TIL VINDGIPS  
 Paroc XST 042 Cortex B-Tape, 60mm, sort

Myndighedsprojekt

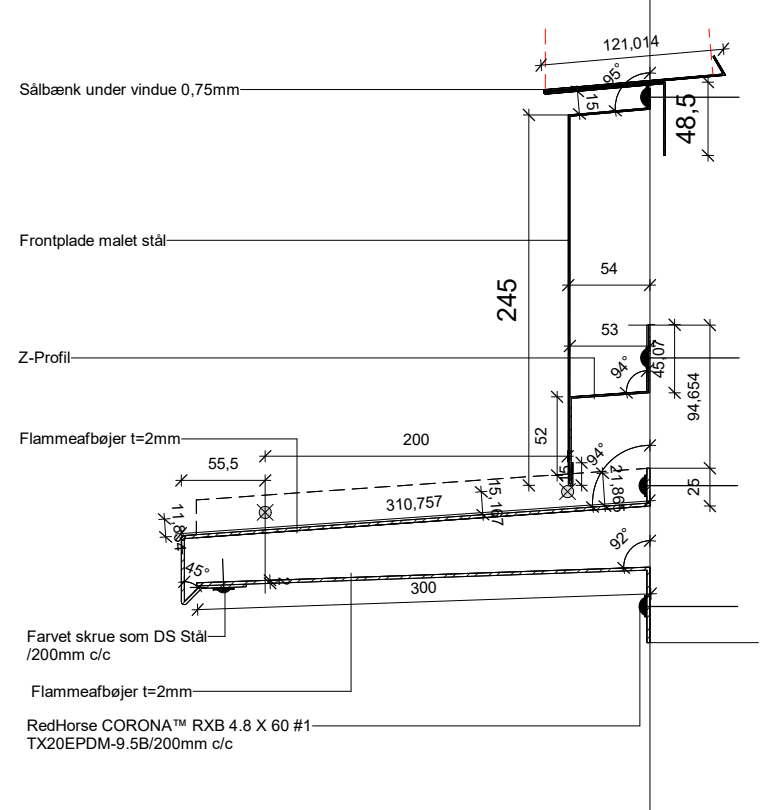
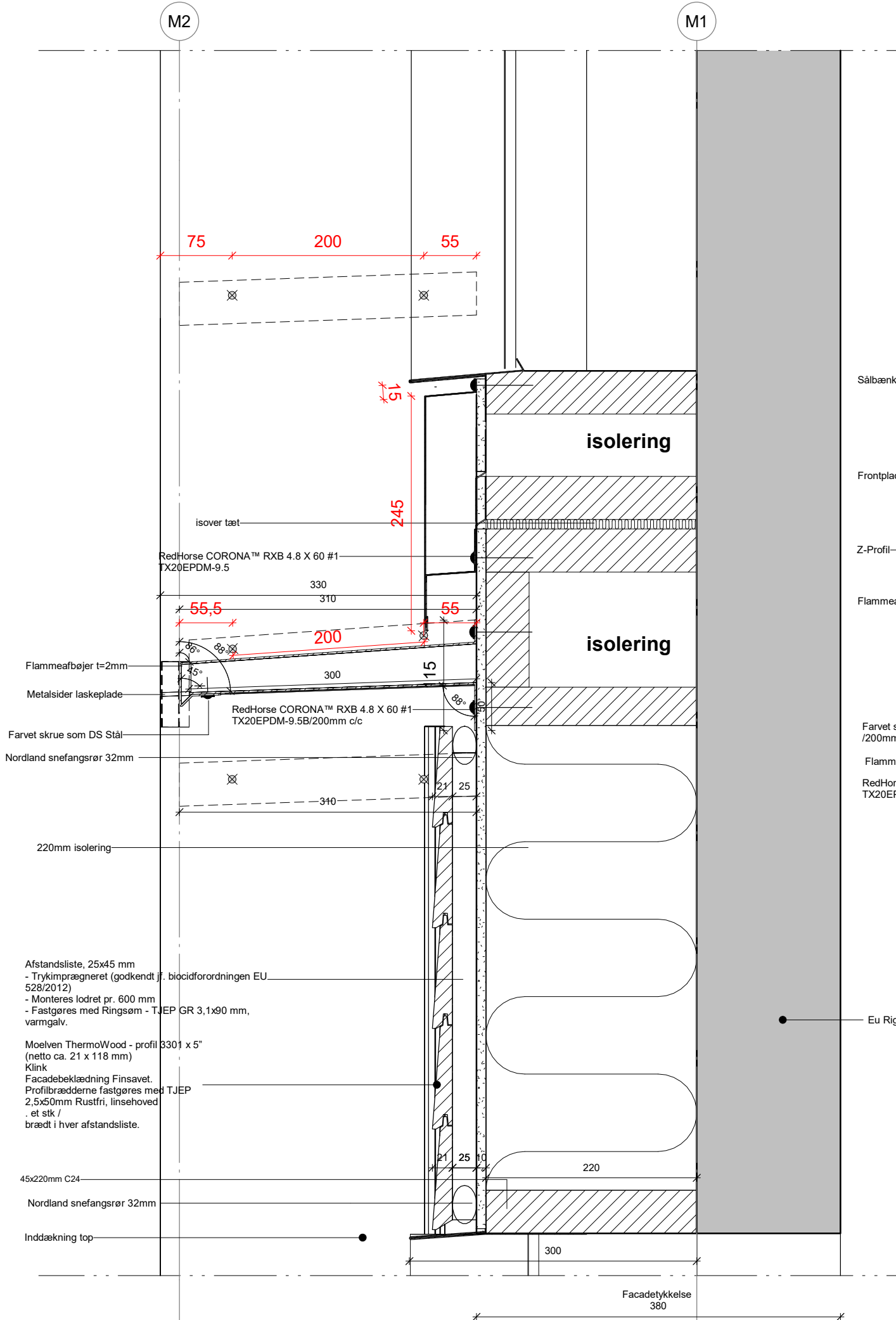
ESR\_K01\_H4\_EXX\_N3014

Mock-up  
2023-11-28

REV.	DATO	EMNE	TEGN.	GOOR.



EMNE:	Underlag for beklædninger (Gård)	SAG NR.:	1960020071
MALESTOK:	1 : 20	DATO:	2023-10-09
TEGN.:	Author	KONTROL:	Checker
GOODKENDT:	Approver	FORMAT:	
TEGN NR.:		REV.:	
		<b>ESR_K01_H4_EXX_N3014</b>	



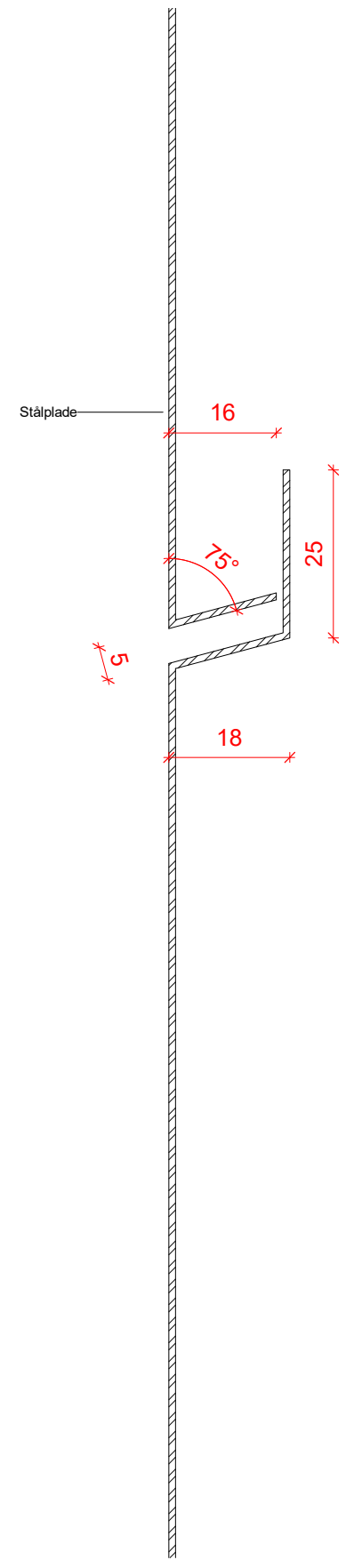
Mock-up  
2023-11-28

Earth Shot Residential  
Detalje over brandkammer (lodret snit)  
Lodret

SAGSNR.	:	1960020071
MALESTOK	:	1 : 5
DATO	:	2023-10-09
TEGN	:	Author
KONTROL	:	Checker
GODKENDT	:	Approver
FORMAT	:	
TEGN NR.	:	REV.:



M2



Mock-up  
2023-11-28

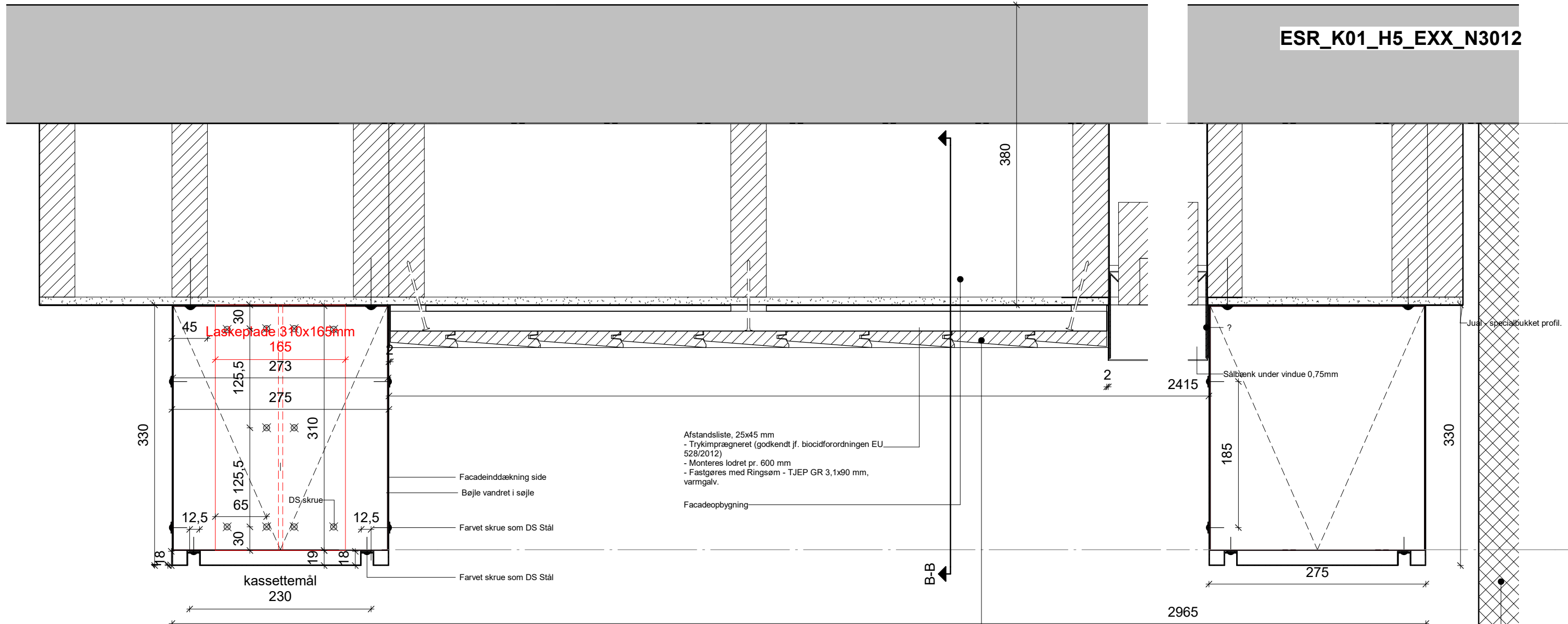
<b>Earth Shot Residential</b>	SAGSNR.	: 1960020071
Snit i horisontal samling i kassetter	MALESTOK	: 1 : 1
	DATO	: 2023-10-09
	TEGN	: Author
	KONTROL	: Checker
	GODKENDT	: Approver
	FORMAT	:
	TEGN NR.	: REV.:



Søren Jensen

Henning  
Larsen

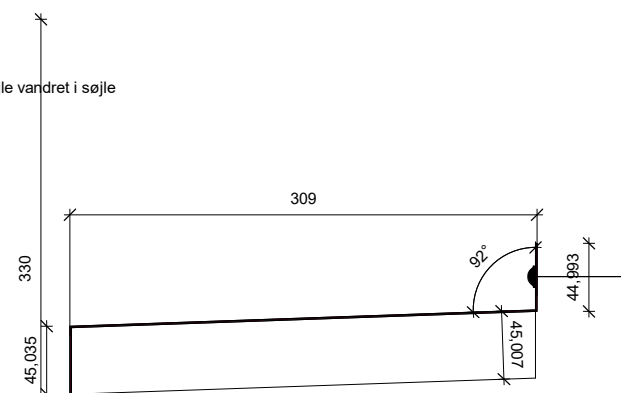
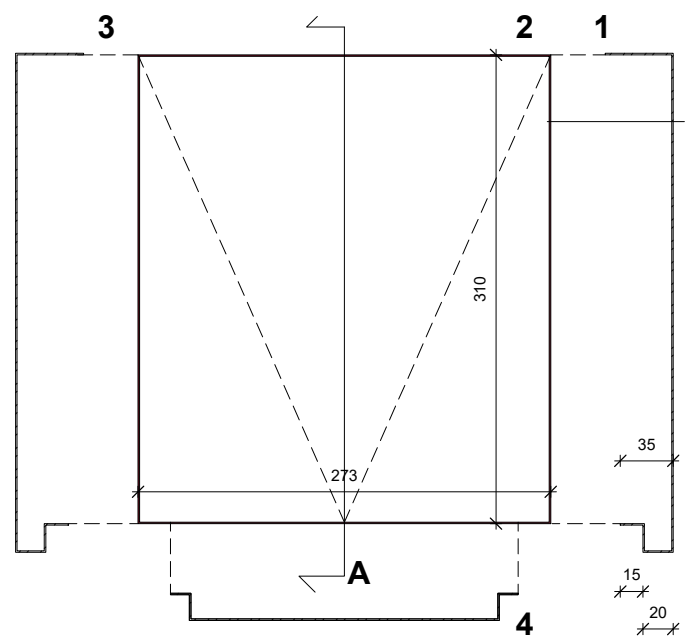
ESR\_K01\_H5\_EXX\_N3011



Spejl  
205

Afstandsliste, 25x45 mm  
- Trykimpregneret (godkendt jf. biocidforordningen EU 528/2012)  
- Monteres lodret pr. 600 mm  
- Fastgøres med Ringsøm - TJEP GR 3,1x90 mm, varmgalv.  
Facadeopbygning

Moelven ThermoWood - profil 3301 x 5" (netto ca. 21 x 118 mm)  
Klink Facadebeklædning Finsavet.  
Profilbrædderne fastgøres med Ringsøm - TJEP 2,5x50mm Rustfri, linsehoved A4, et stk / brædt i hver afstandsliste.



**Snit A**  
vandret bøjle til ombukket til afstivning



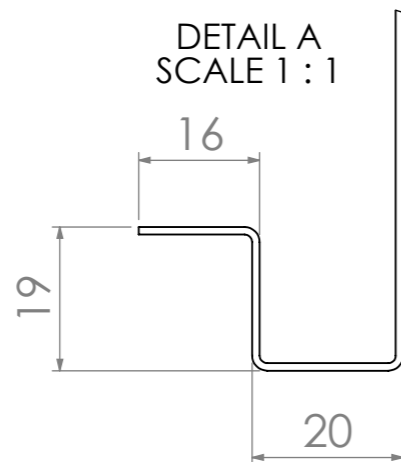
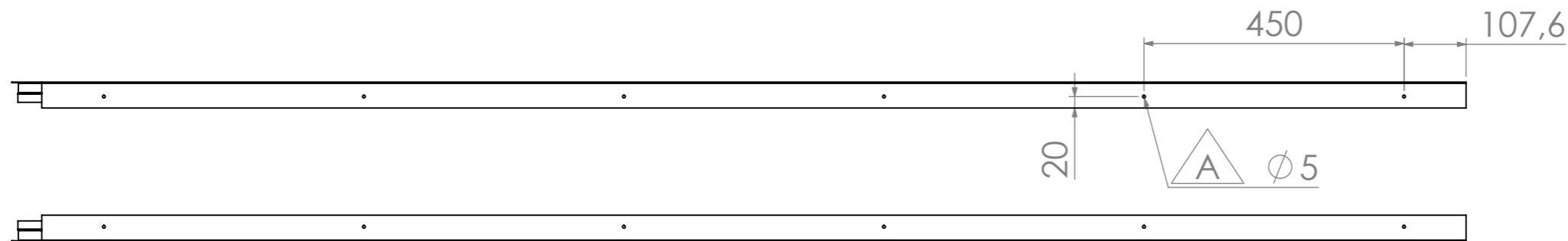
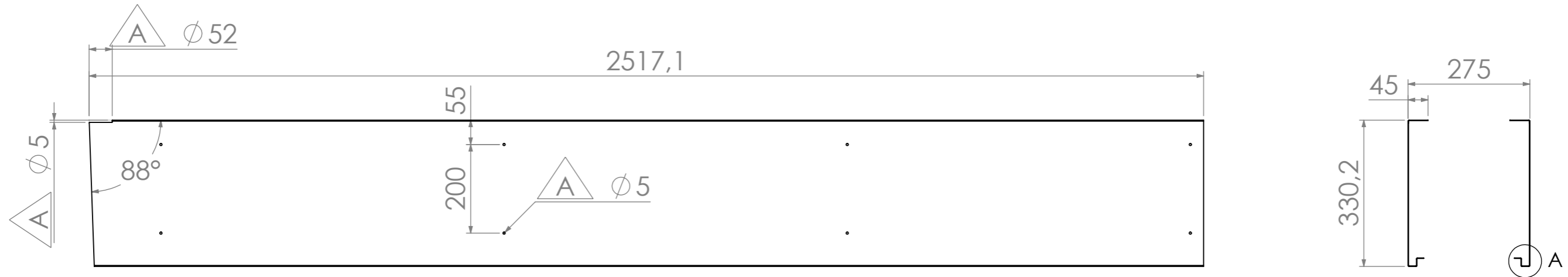
**Mock-up**  
**2023-11-28**

**Earth Shot Residential**  
Detalje over brandkammer (vandret snit)

SAGSNR.	:	1960020071
MALESTOK	:	1 : 5
DATO	:	2023-10-09
TEGN	:	Author
KONTROL	:	Checker
GODKENDT	:	Approver
FORMAT	:	
TEGN NR.	:	REV.:

GKB-117517-1-20

GKB-117517-1-10



REVISIONS		DBI PGC10030A	
REV.	DESCRIPTION	DATE	APPROVED
A	Ø5 huller tilføjet på bagkant; Ø4,3 huller på siden ændret til Ø5: Mål ændret fra 48 til 52 mm; Mål ændret fra 3 til 5 mm:	27-11-2023	casper

NAME	DATE
DRAWN casper	27-11-2023



MATERIAL:  
1.0330 (DC01 (SPO))

WEIGHT: 16.55

Folder name:  
X:\Facadeplan\BFUH-2\

Customer:  
Facadeplan

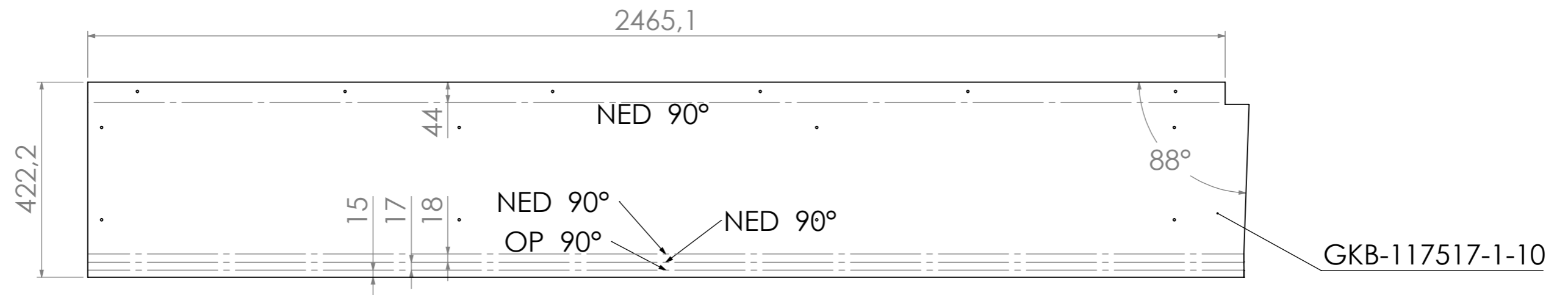
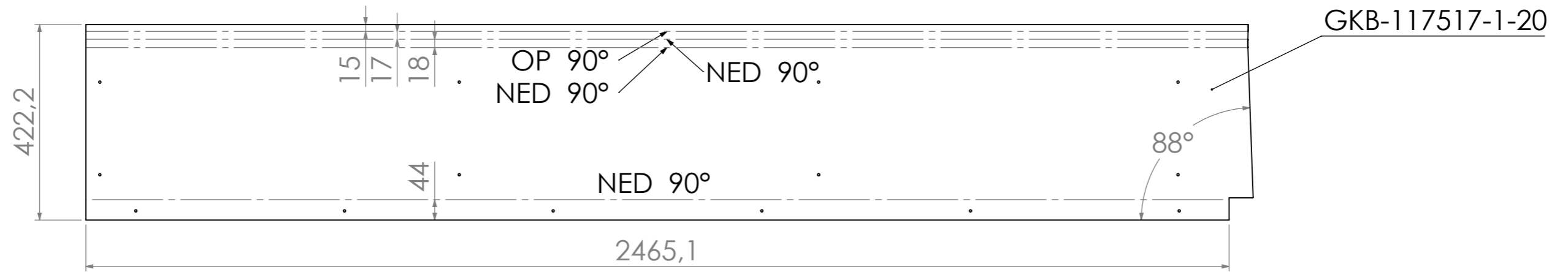
TITLE:  
Lodret søjle, Stue, 1 mm plade

DWG NO. GKB-117517-1


REVISION  
A

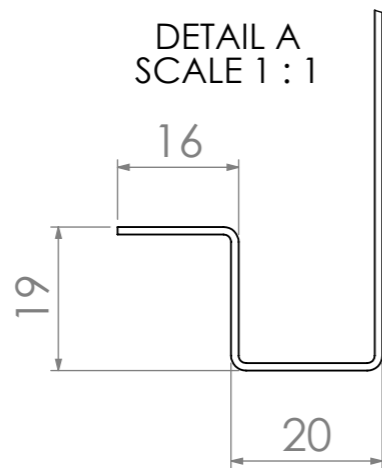
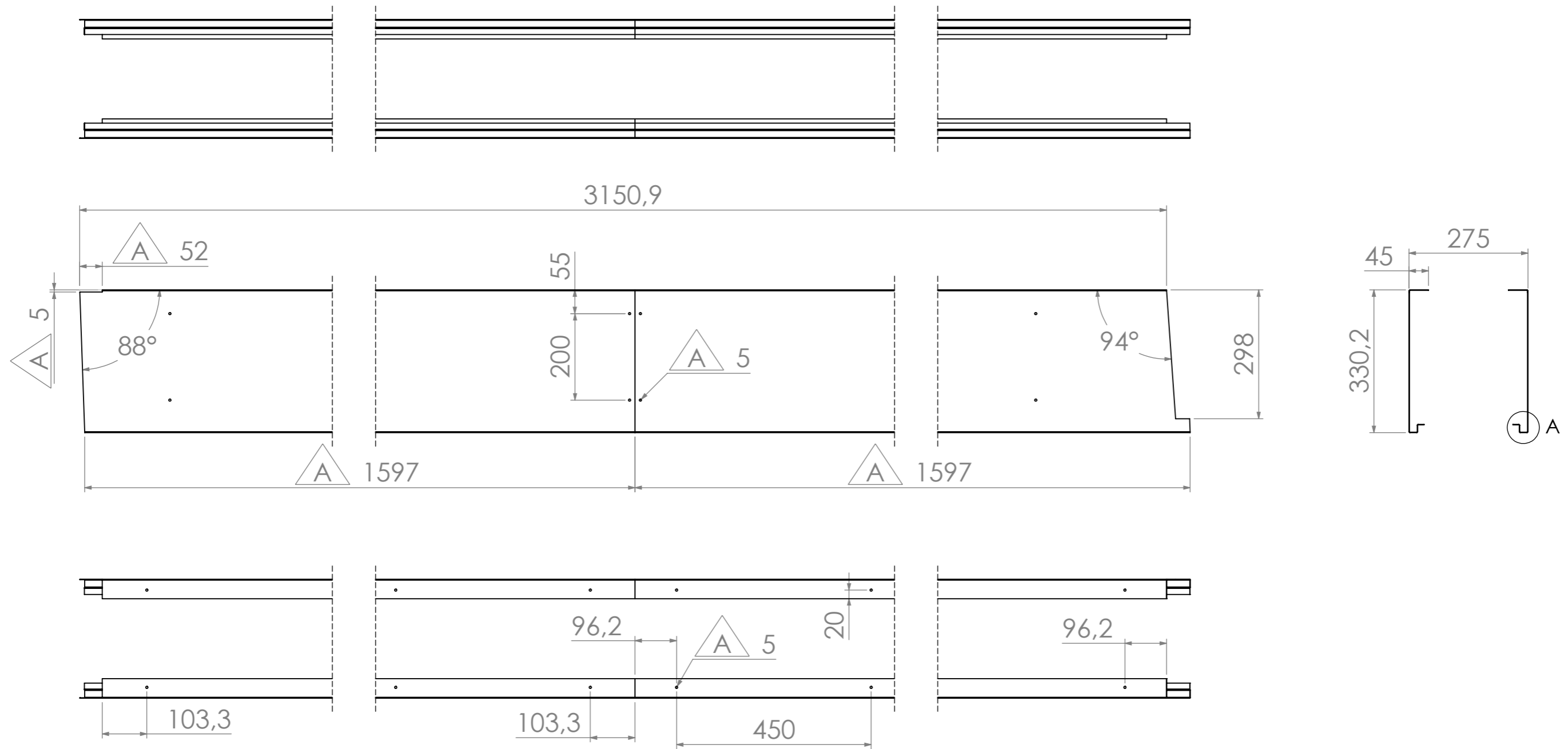
SCALE:1:10 A3 SHEET 1 OF 2

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.



OV: R1  
 UV: Spor 8  
 BT: 0,0 mm

NAME	DATE		Folder name:		
DRAWN <b>casper</b>	21-11-2023		X:\Facadeplan\BFUH-2\	Customer:	Facadeplan
			TITLE:	Lodret søjle, Stue, 1 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:	DWG NO.	<b>GKB-117517-1</b>	REVISION
		1.0330 (DC01 (SPO))			<b>A</b>
		WEIGHT: 16.52	SCALE:1:10	A3	SHEET 2 OF 2



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Ø5 huller tilføjet på bagkant; Ø4,3 huller på siden cændret til Ø5; Mål 1598 cændret til 1597 mm; Mål 48 cændret til 52; Mål 3 cændret til 5mm	27-11-2023	casper

NAME	DATE
DRAWN casper	27-11-2023

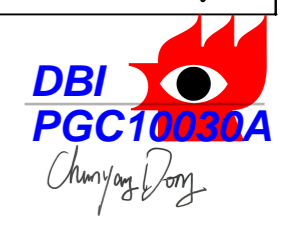
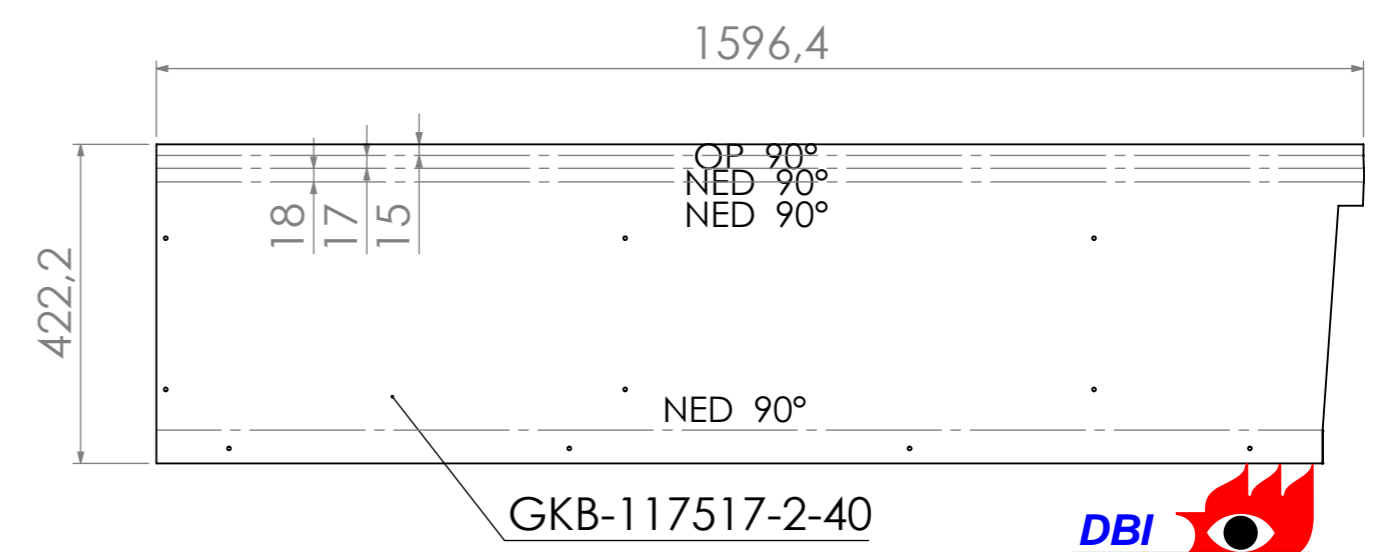
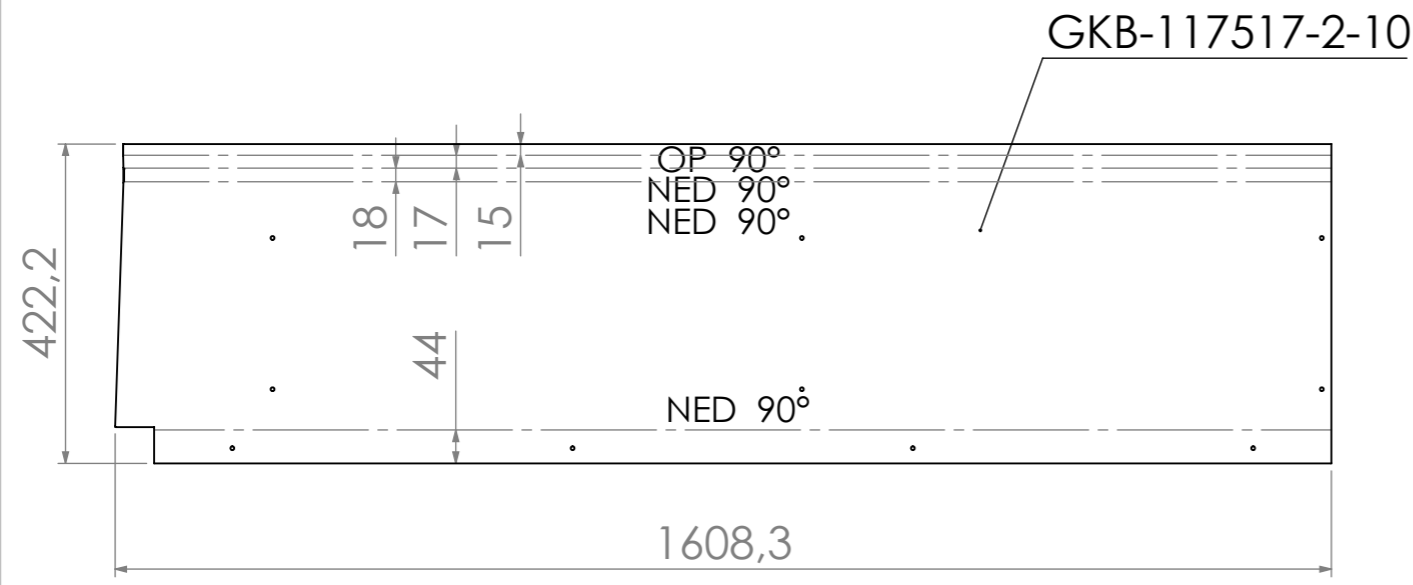
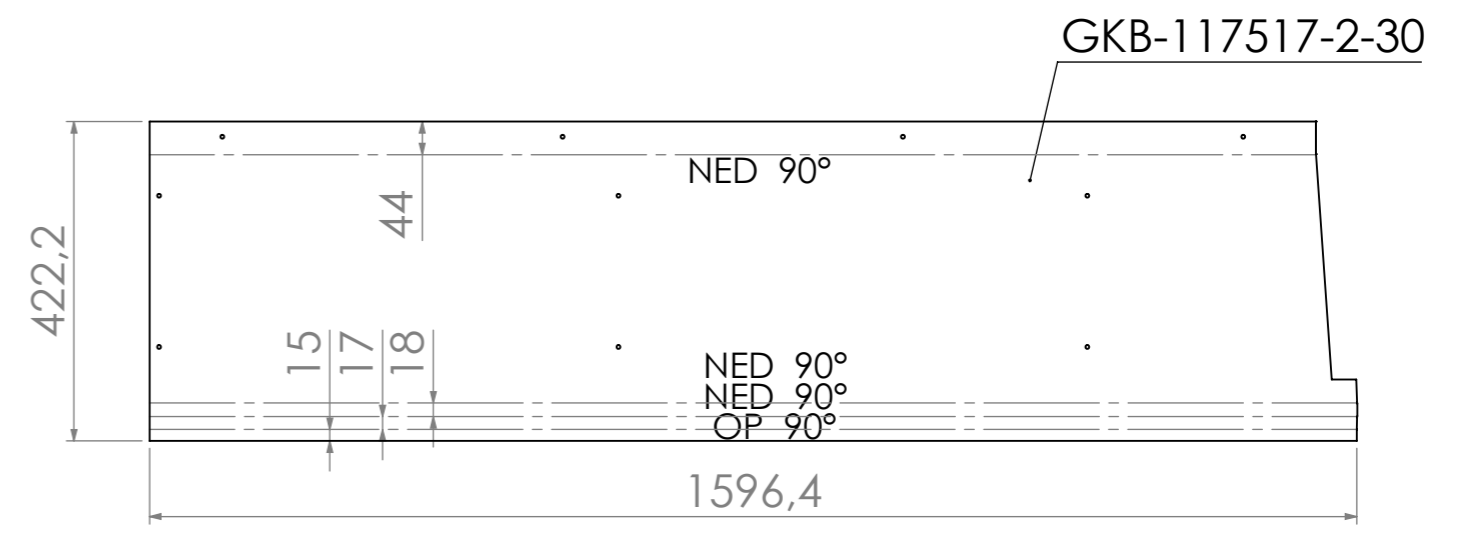
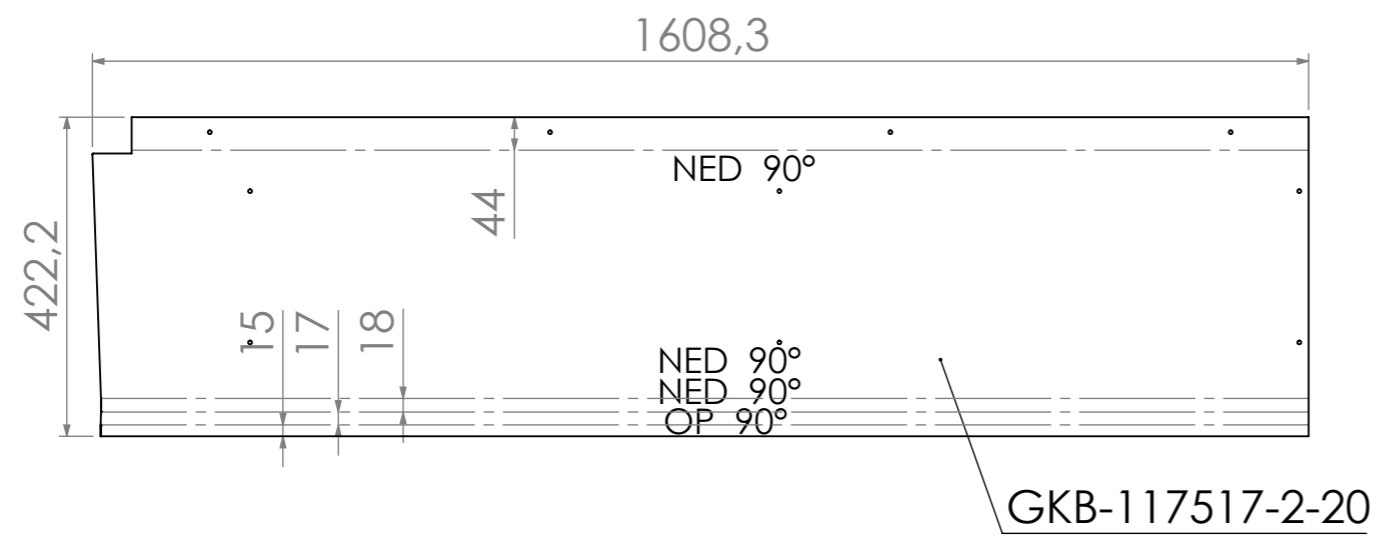


Folder name: X:\Facadeplan\BFUH-2\
Customer: Facadeplan
TITLE: Lodret søjle, 1./2. sal, 1 mm plade

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: 20.86

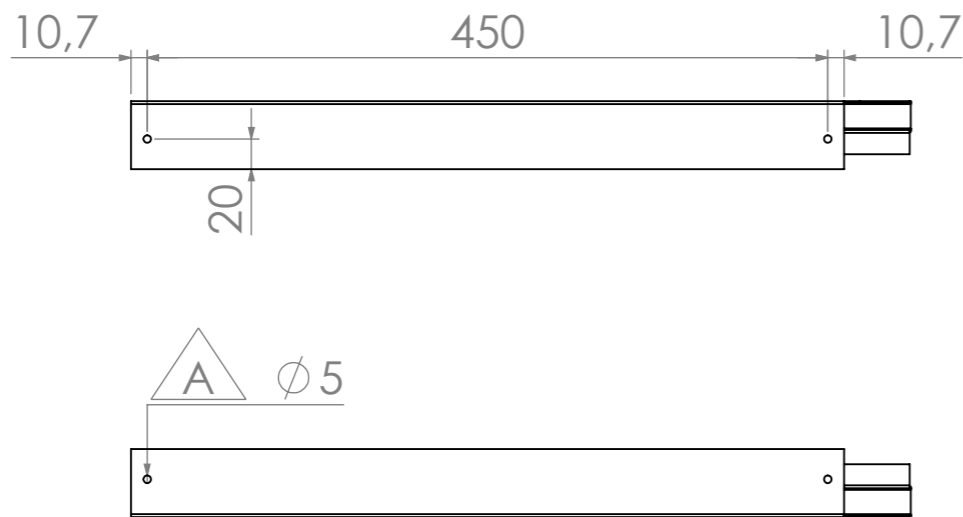
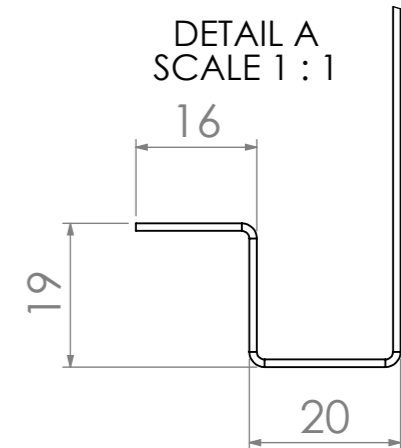
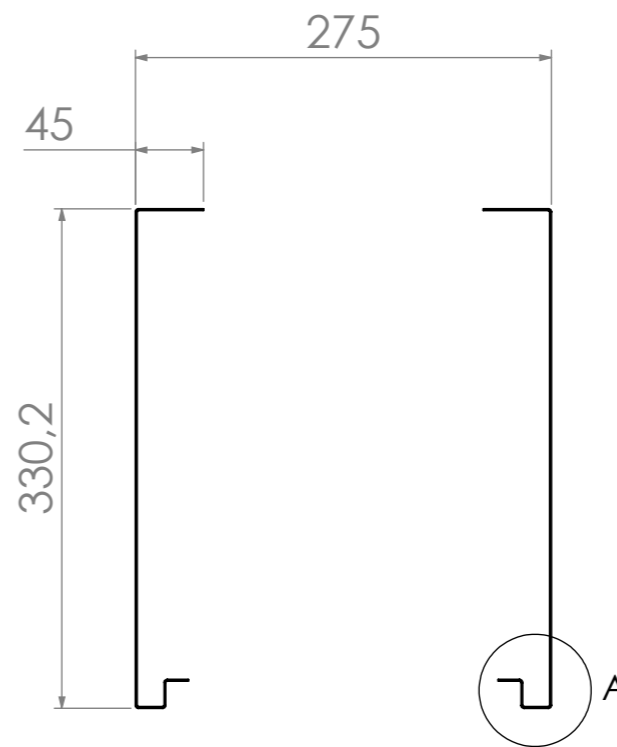
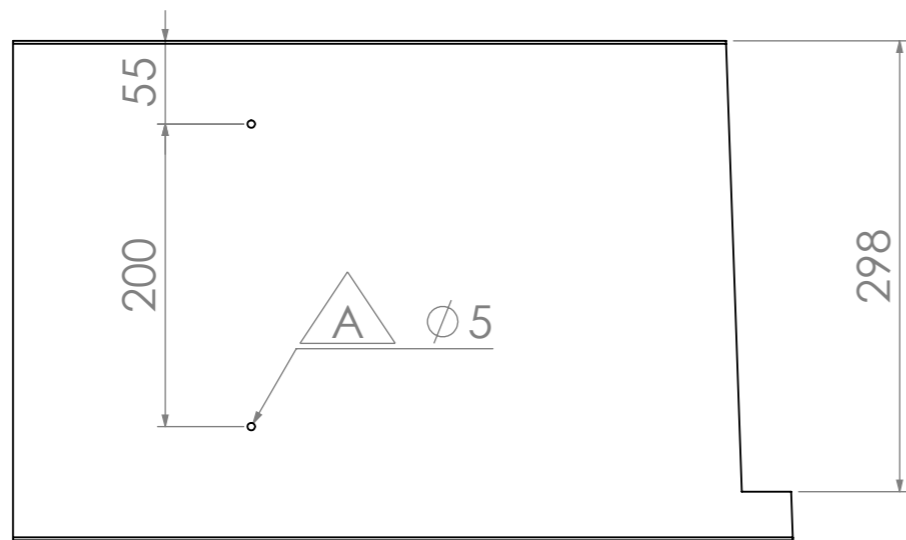
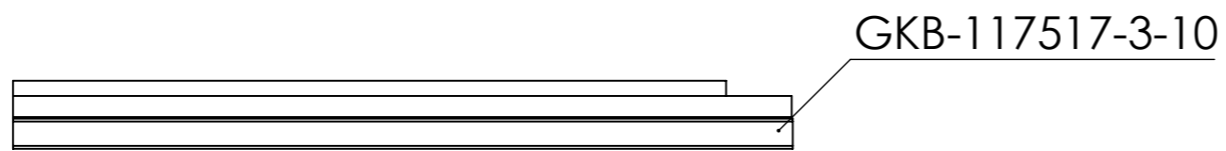
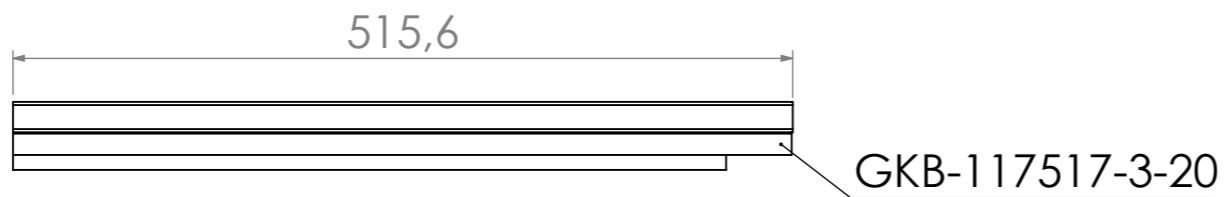
DWG NO. GKB-117517-2	REVISION A
SCALE: 1:10	A3 SHEET 1 OF 2



OV: R1  
 UV: Spor 8  
 BT: 0,0 mm

NAME	DATE		Folder name:		
DRAWN <b>casper</b>	21-11-2023		X:\Facadeplan\BFUH-2\	Customer:	Facadeplan
			TITLE:	Lodret søjle, 1./2. sal, 1 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:	DWG NO.	GKB-117517-2	REVISION
		1.0330 (DC01 (SPO))			A
		WEIGHT: 20.84	SCALE:1:10	A3	SHEET 2 OF 2





REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Ø5 huller tilføjet på bagkant; Ø4,3 huller på siden ændret Ø5:	27-11-2023	casper

NAME	DATE
DRAWN casper	27-11-2023

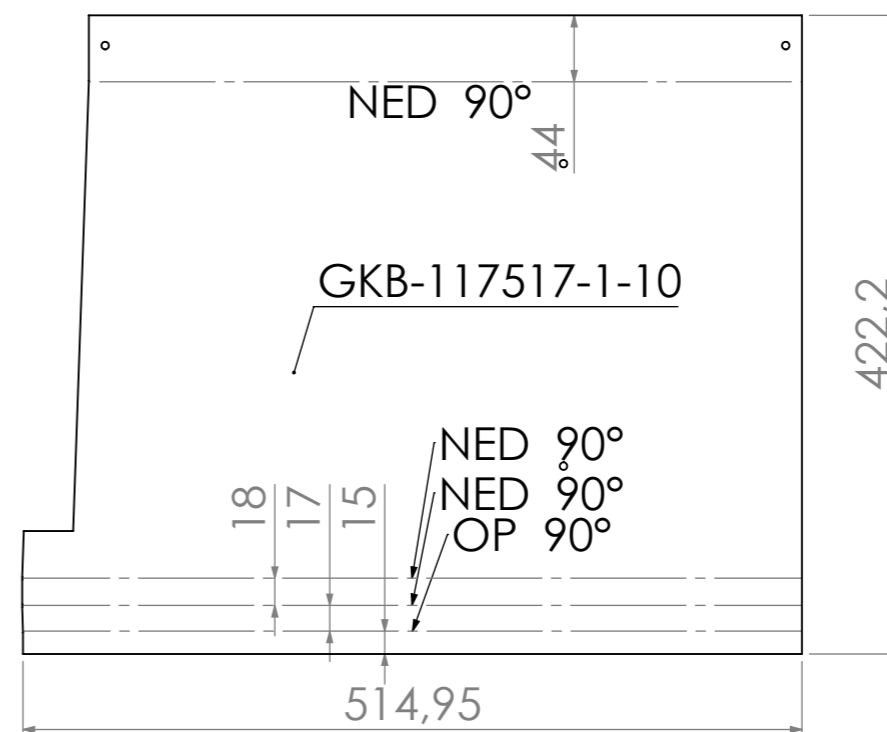
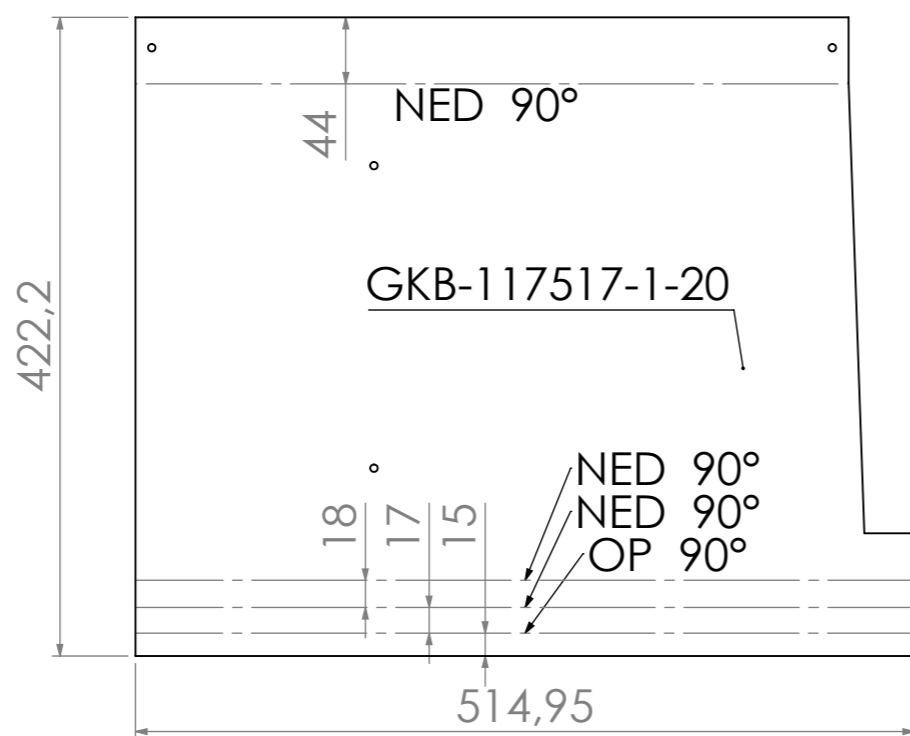


Folder name: X:\Facadeplan\BFUH-2\
Customer: Facadeplan
TITLE: Lodret søjle, 3. sal, 1 mm plade


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.

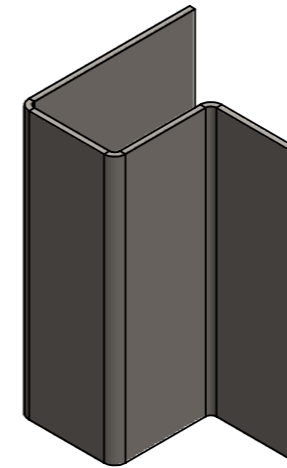
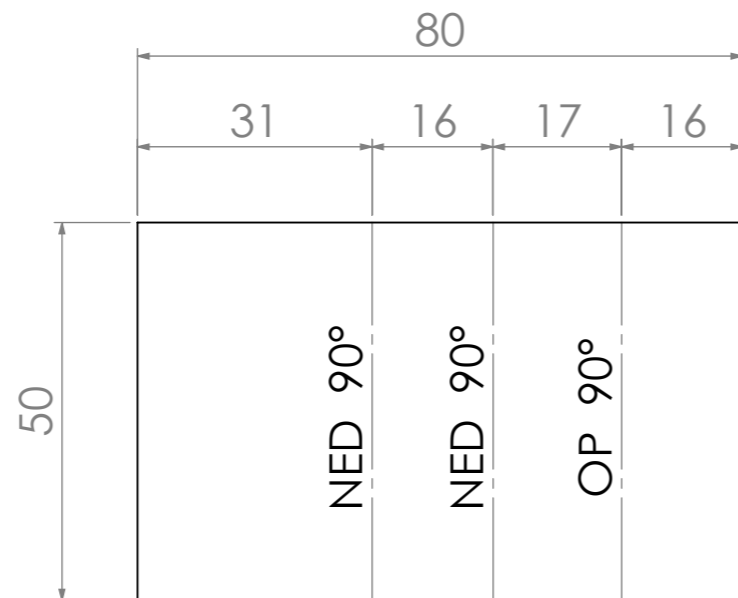
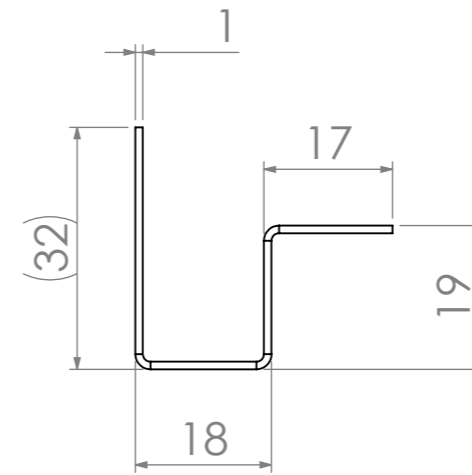
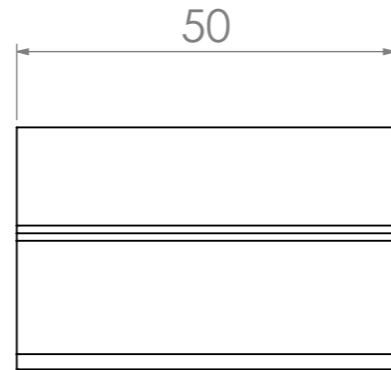
MATERIAL: 1.0330 (DC01 (SPO))
WEIGHT: 3.19

DWG NO. <b>GKB-117517-3</b>	REVISION <b>A</b>
SCALE:1:5	A3 SHEET 1 OF 2




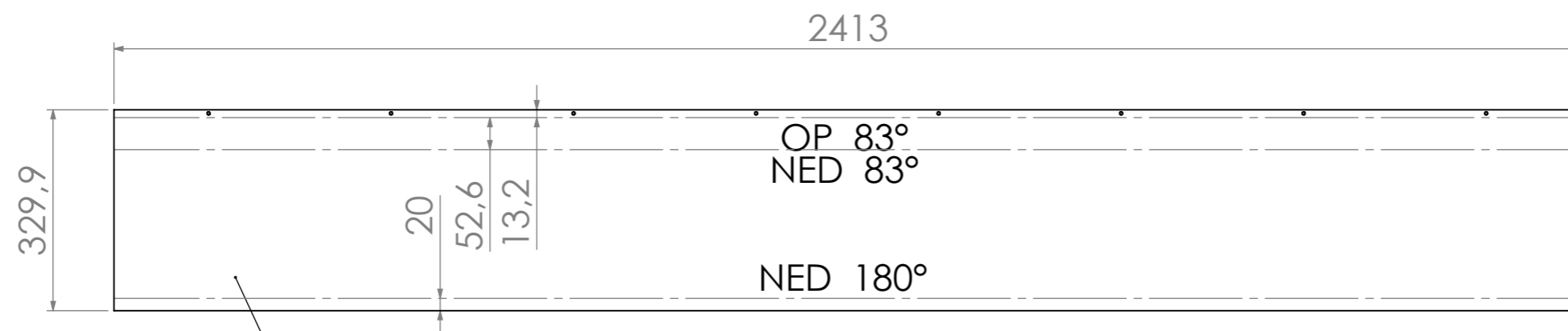
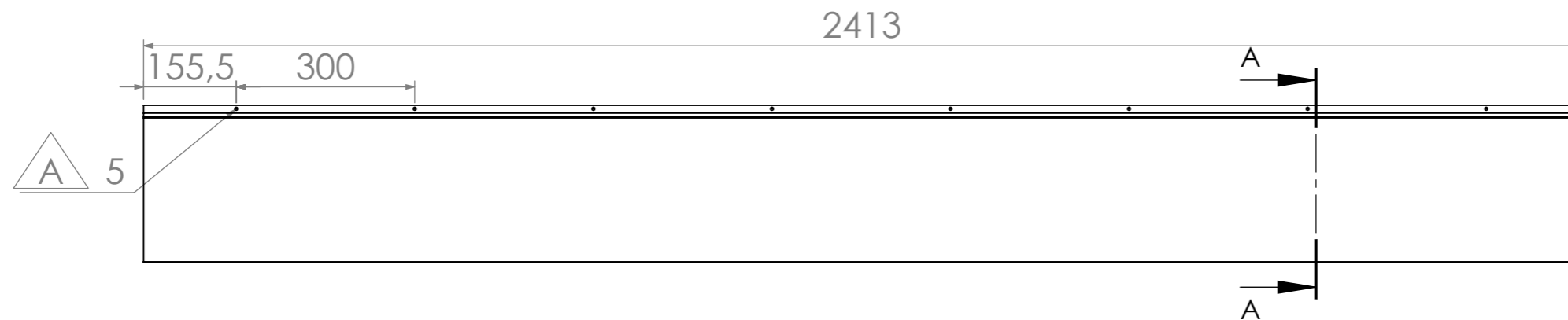
OV: R1  
 UV: Spor 8  
 BT: 0,0 mm

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NAME	DATE											
DRAWN <b>casper</b>	21-11-2023											
MATERIAL: 1.0330 (DC01 (SPO))		Customer: <b>Facadeplan</b>										
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.		TITLE: <b>Lodret søjle, 3. sal, 1 mm plade</b>										
WEIGHT: 3.19		DWG NO. <b>GKB-117517-3</b>										
SCALE: 1:5		REVISION <b>A</b>										
A3 SHEET 2 OF 2												

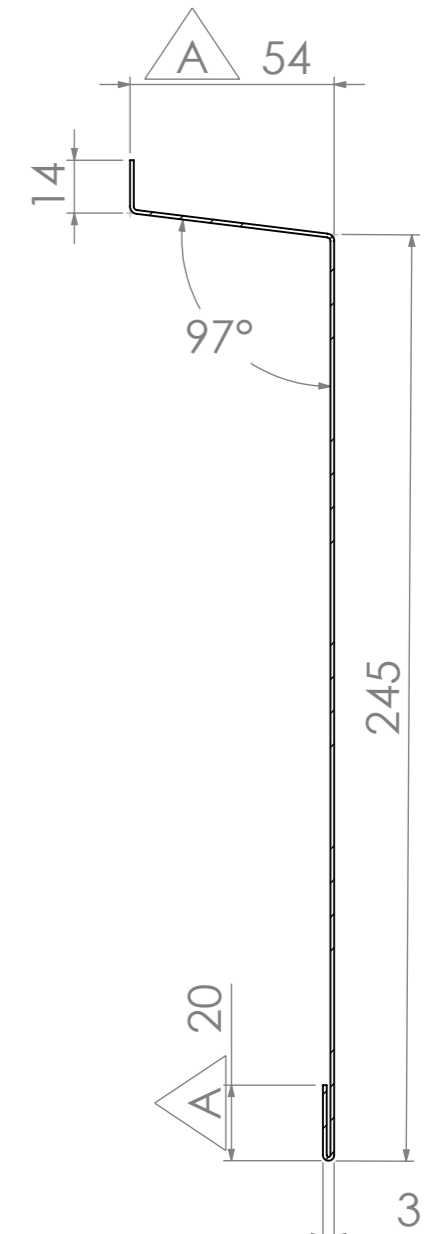


OV: R1  
 UV: Spor 8  
 BT: 0,0 mm

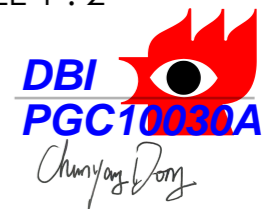
NAME	DATE		Folder name:	X:\Facadeplan\BFUH-2\	
DRAWN <b>casper</b>	22-11-2023		Customer:	Facadeplan	
			TITLE:	Laske, Lodrette søjler, 1 mm plade	
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m) Alle mål er i millimeter, medmindre andet er angivet. Tegningen må ikke skaleres.		MATERIAL:	DWG NO.	<b>GKB-117517-4</b>	REVISION
		WEIGHT: 0.03	SCALE: 1:1	A3	SHEET 1 OF 1



GKB-117517-6-10



SECTION A-A  
SCALE 1 : 2



OV: R1  
UV: Spor 8  
BT: 0,0 mm

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Ø5 huller tilføjet; 53 -> 54; 15-> 20	27-11-2023	casper

NAME	DATE
DRAWN <b>casper</b>	27-11-2023



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: 9.01

Folder name:  
X:\Facadeplan\BFUH-2\

Customer:  
Facadeplan

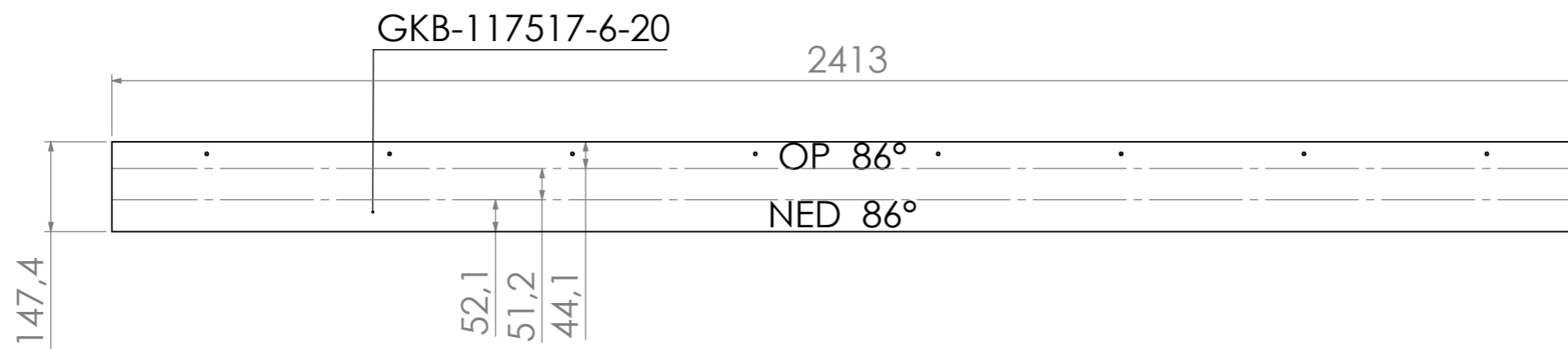
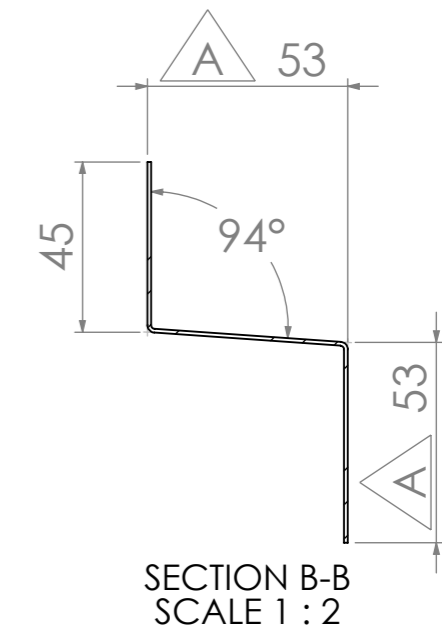
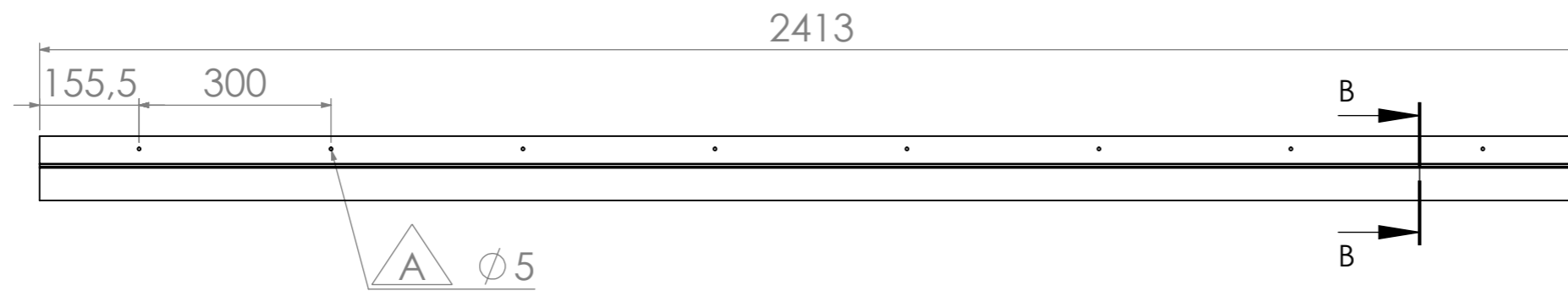
TITLE:  
Brystplade, 1 mm plade

DWG NO. **GKB-117517-6**


SCALE:1:10

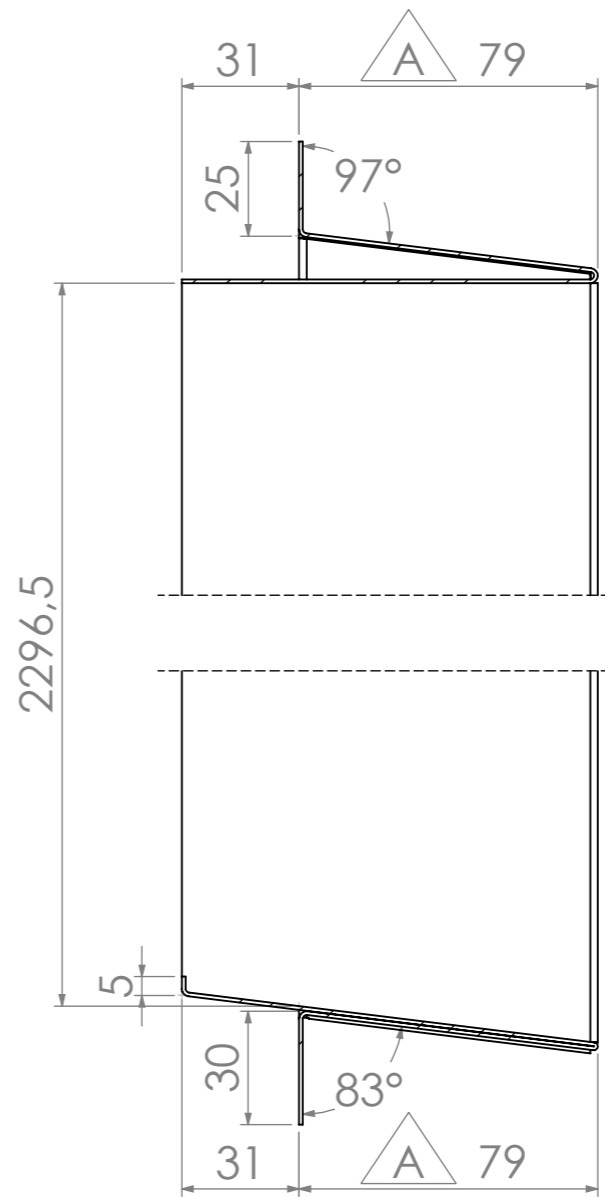
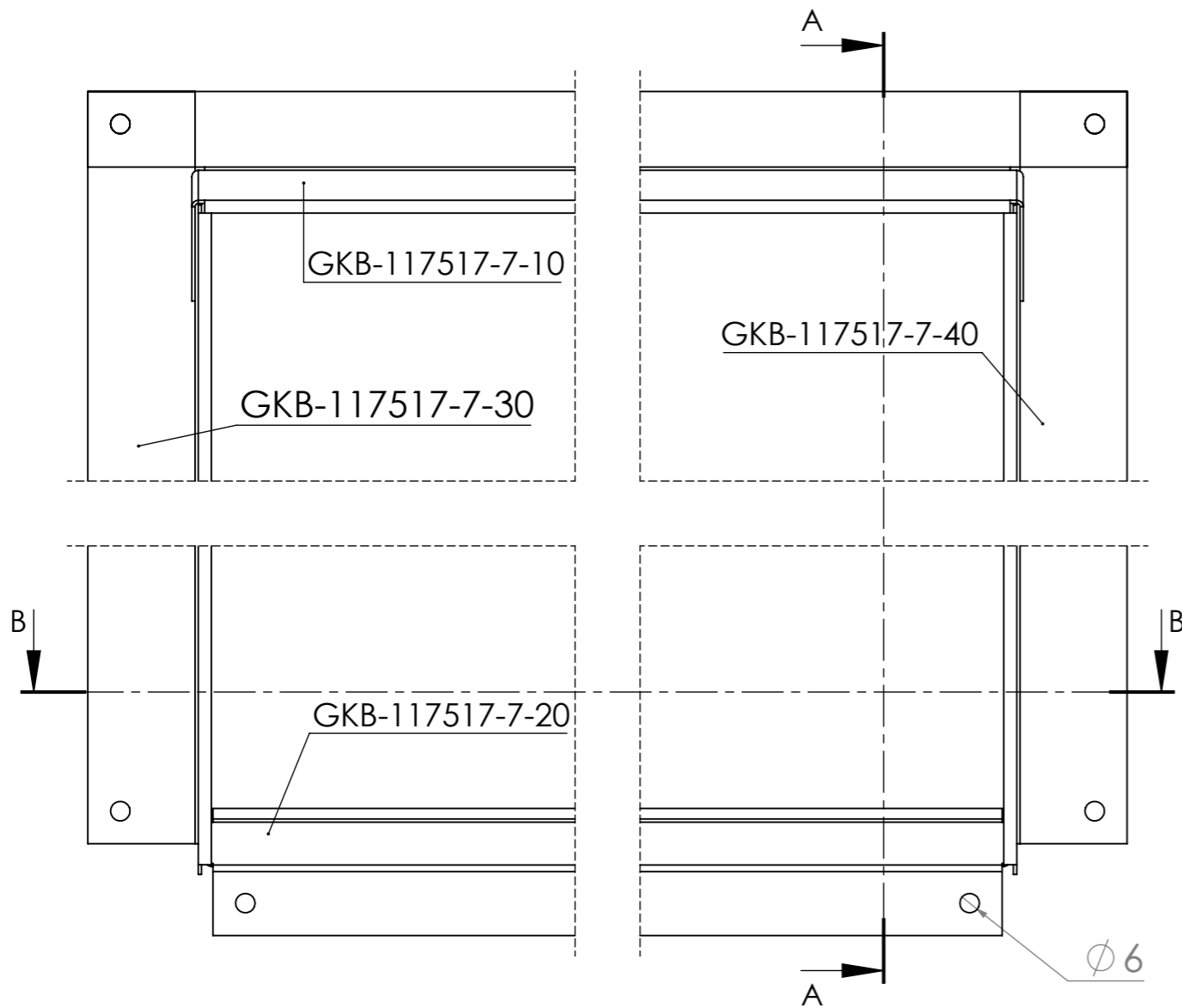
A3 SHEET 1 OF 2

REVISION  
**A**

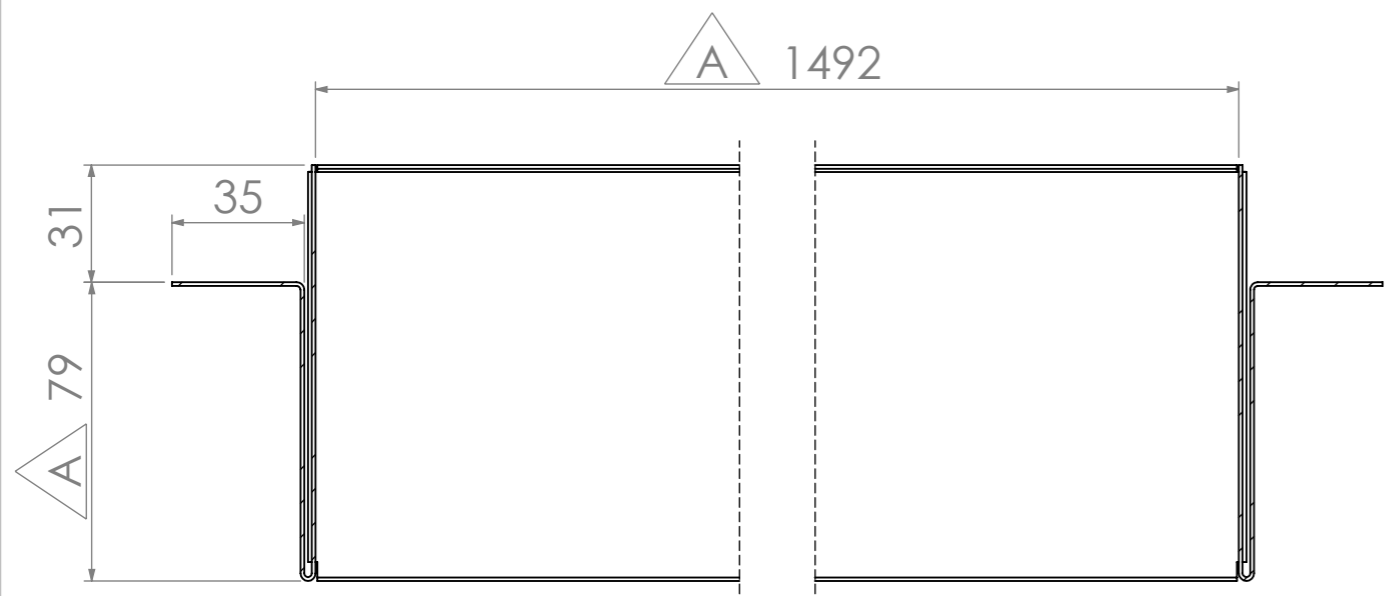


OV: R1  
UV: Spor 8  
BT: 0,0 mm

NAME	DATE		Folder name:		
DRAWN <b>casper</b>	23-11-2023		X:\Facadeplan\BFUH-2\	Customer:	Facadeplan
			TITLE:	Brystplade, 1 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:	DWG NO.	GKB-117517-6	REVISION
		1.0330 (DC01 (SPO))	SCALE:1:10	A3	SHEET 2 OF 2
		WEIGHT: 9.01			



SECTION A-A



SECTION B-B



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	fremspring ændret fra 78 til 79mm; Indv. hulmål 1491 til 1492 mm;	27-11-2023	casper

NAME	DATE
DRAWN casper	27-11-2023

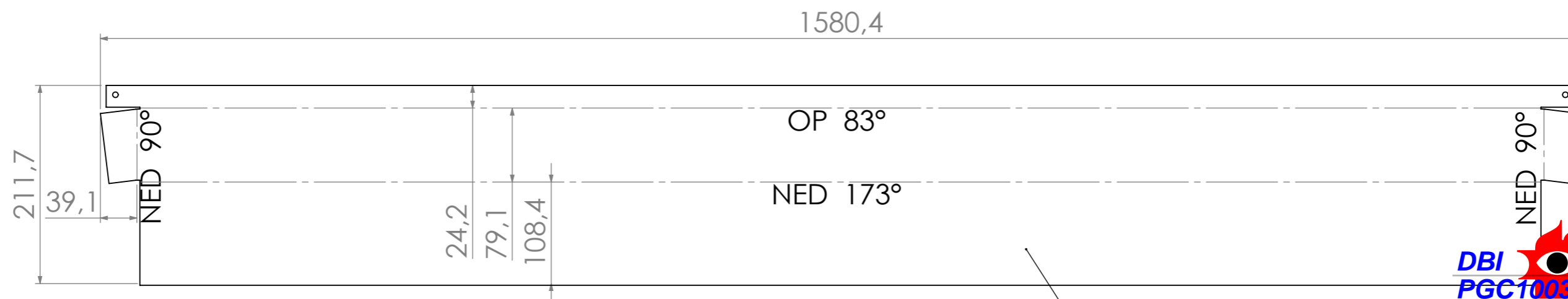
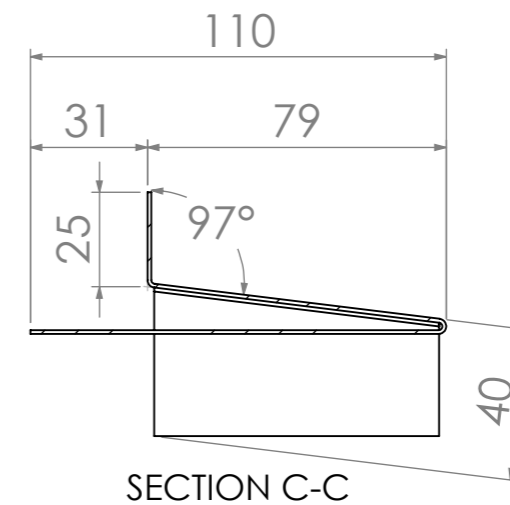
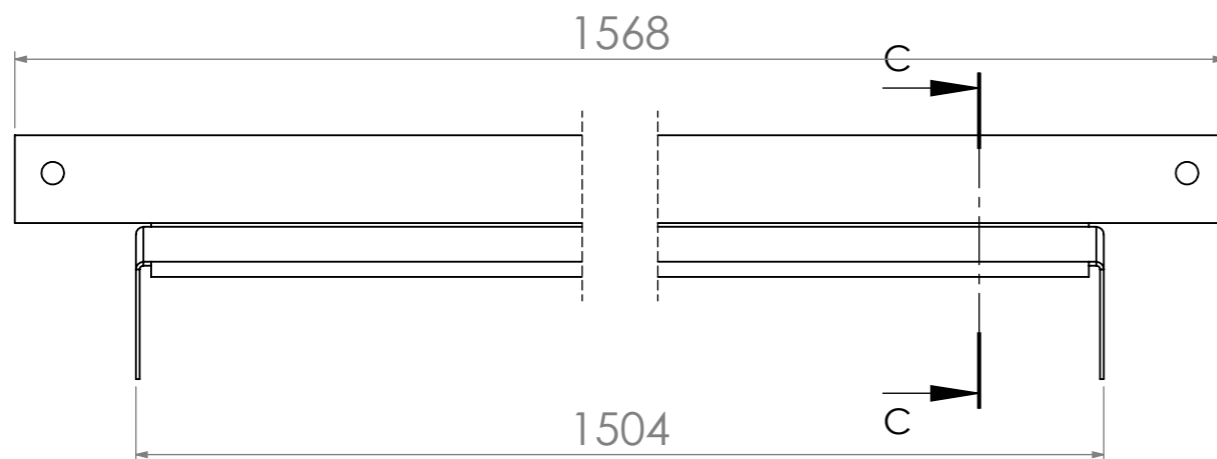


Folder name:  
X:\Facadeplan\BFUH-2\  
Customer:  
Facadeplan  
TITLE:  
Indd. vindue, 1 mm plade

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: 13.23

DWG NO. **GKB-117517-7** REVISION **A**  
SCALE: 1:2 A3 SHEET 1 OF 4



SCALE 1 : 5

GKB-117517-7-10



OV: R1  
UV: Spor 6  
BT: 0,2 mm

NAME	DATE
DRAWN <b>casper</b>	24-11-2023



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: 13.23

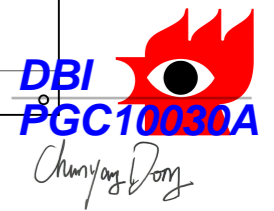
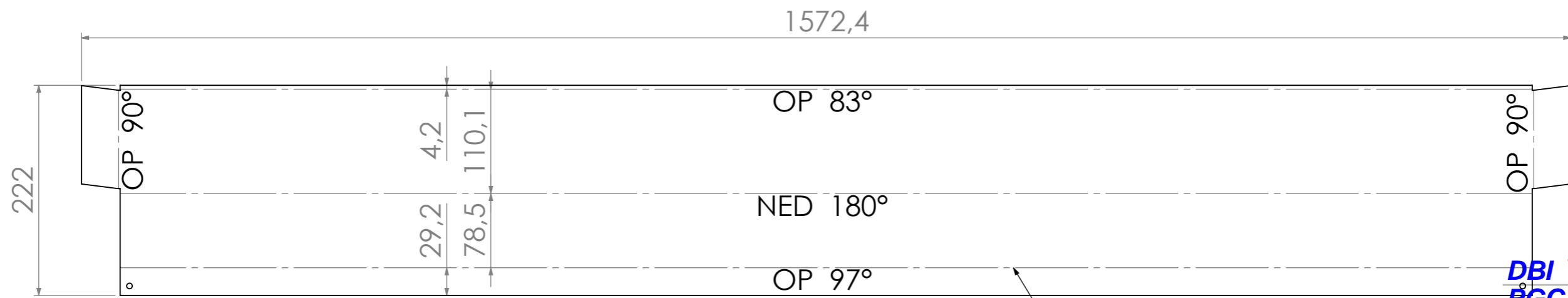
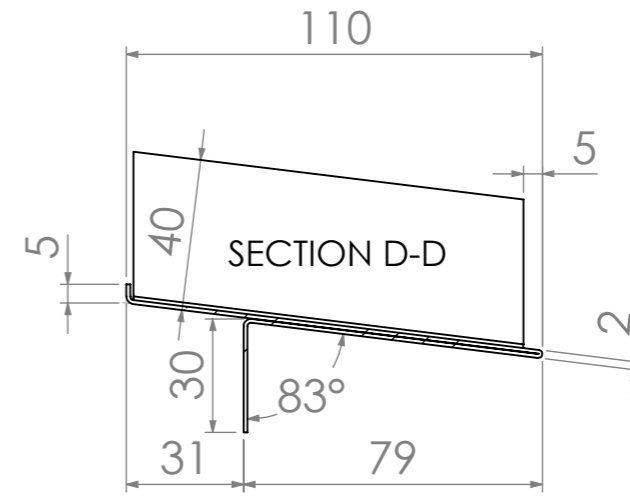
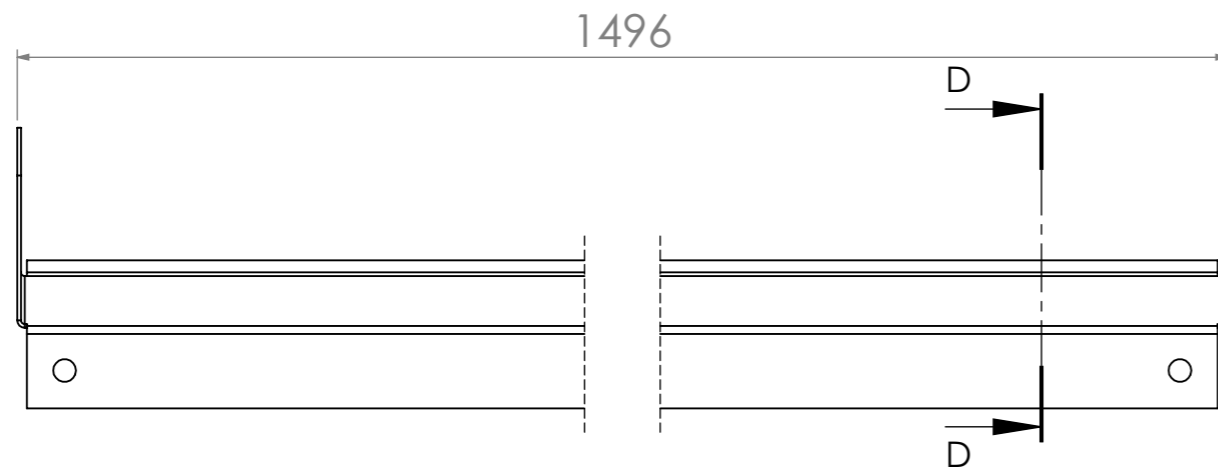
Folder name:  
X:\Facadeplan\BFUH-2\  
Customer:  
Facadeplan

TITLE:  
Indd. vindue, 1 mm plade


DWG NO. **GKB-117517-7**

REVISION  
**A**

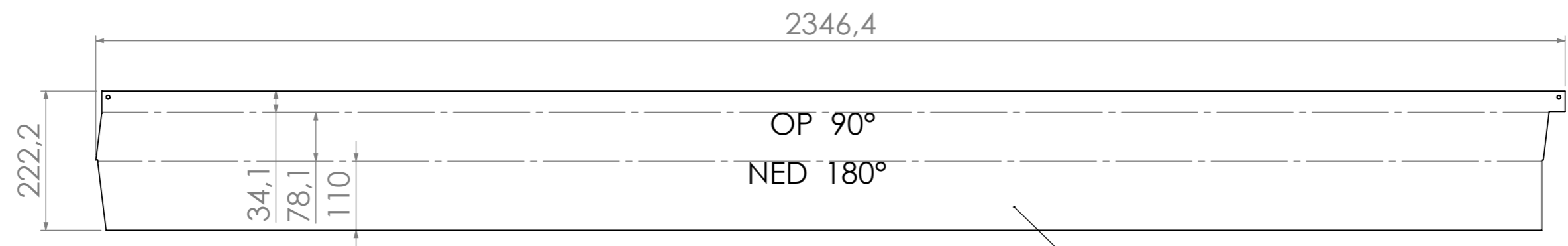
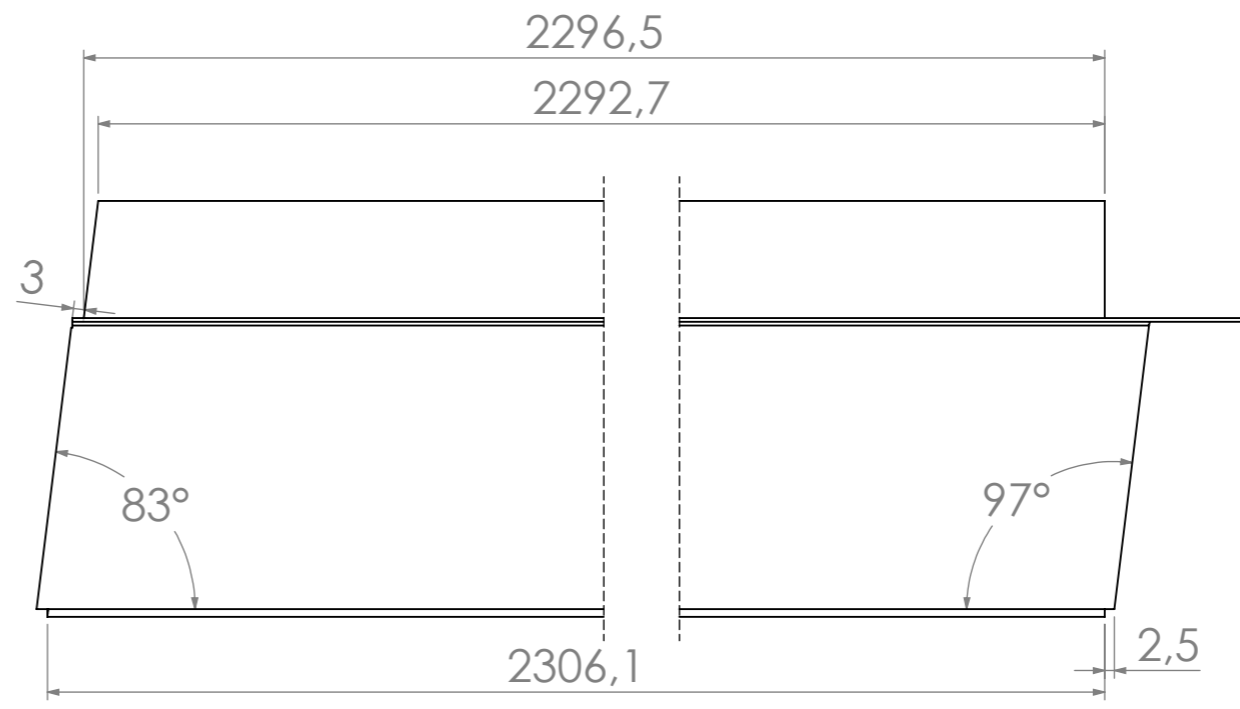
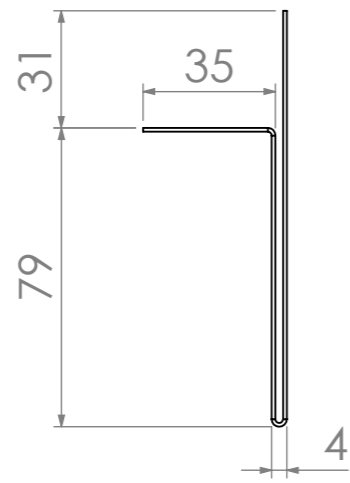
SCALE: 1:2 A3 SHEET 2 OF 4



OV: R1  
 UV: Spor 6  
 BT: 0,2 mm

NAME	DATE		Folder name:	X:\Facadeplan\BFUH-2\	
DRAWN <b>casper</b>	24-11-2023		Customer:	Facadeplan	
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.			TITLE:	Indd. vindue, 1 mm plade	
MATERIAL:			DWG NO.	<b>GKB-117517-7</b>	REVISION
WEIGHT: 13.23			SCALE: 1:2		<b>A</b>
			A3		SHEET 3 OF 4





SCALE 1 : 8

GKB-117517-7-30



OV: R1  
UV: Spor 6  
BT: 0,2 mm

GKB-117517-7-40 er spejlvendt af denne!

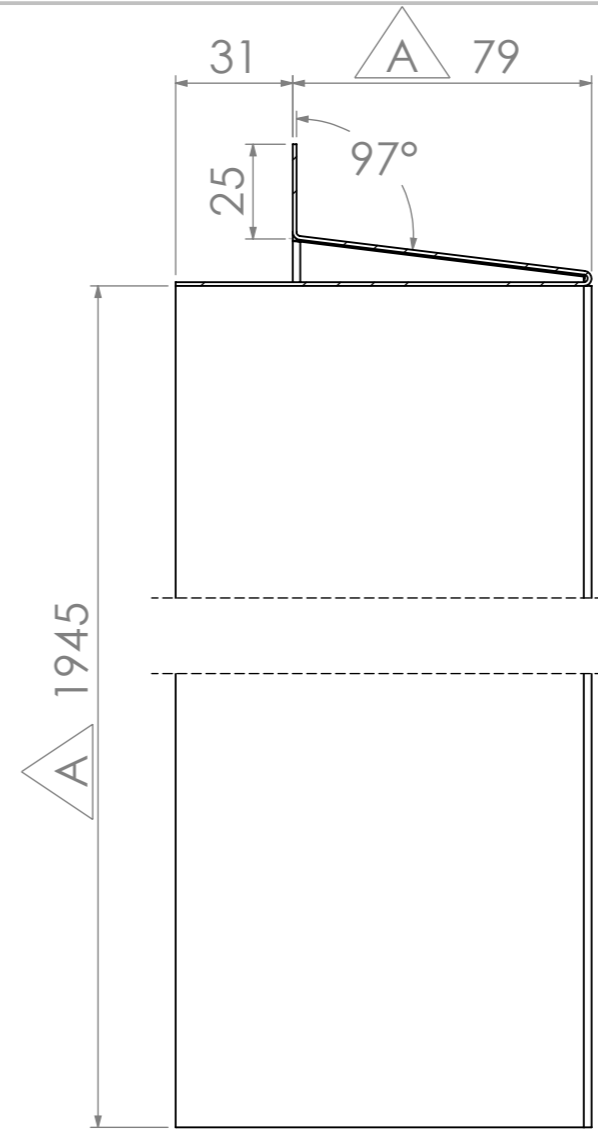
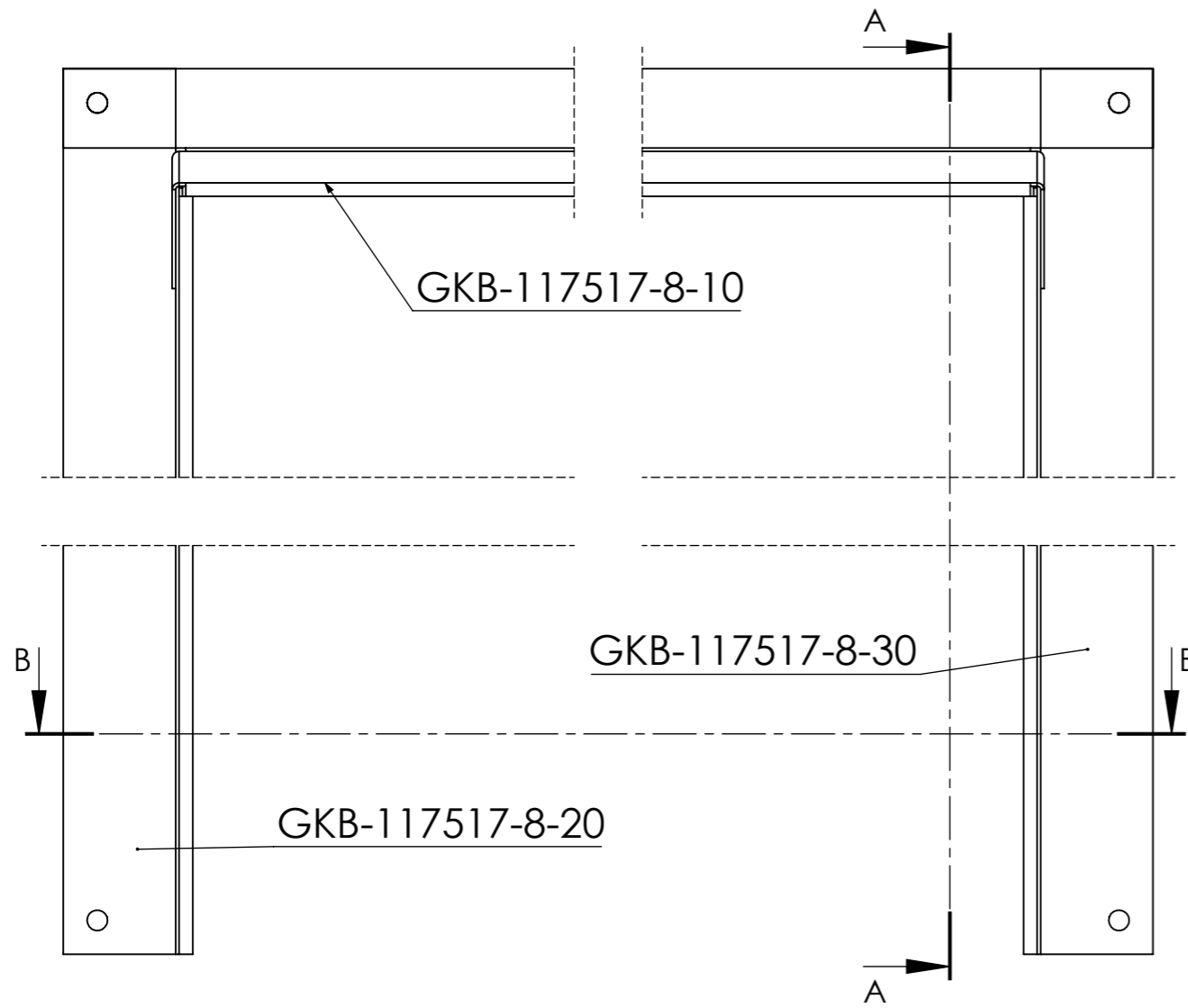
NAME	DATE
DRAWN <b>casper</b>	24-11-2023



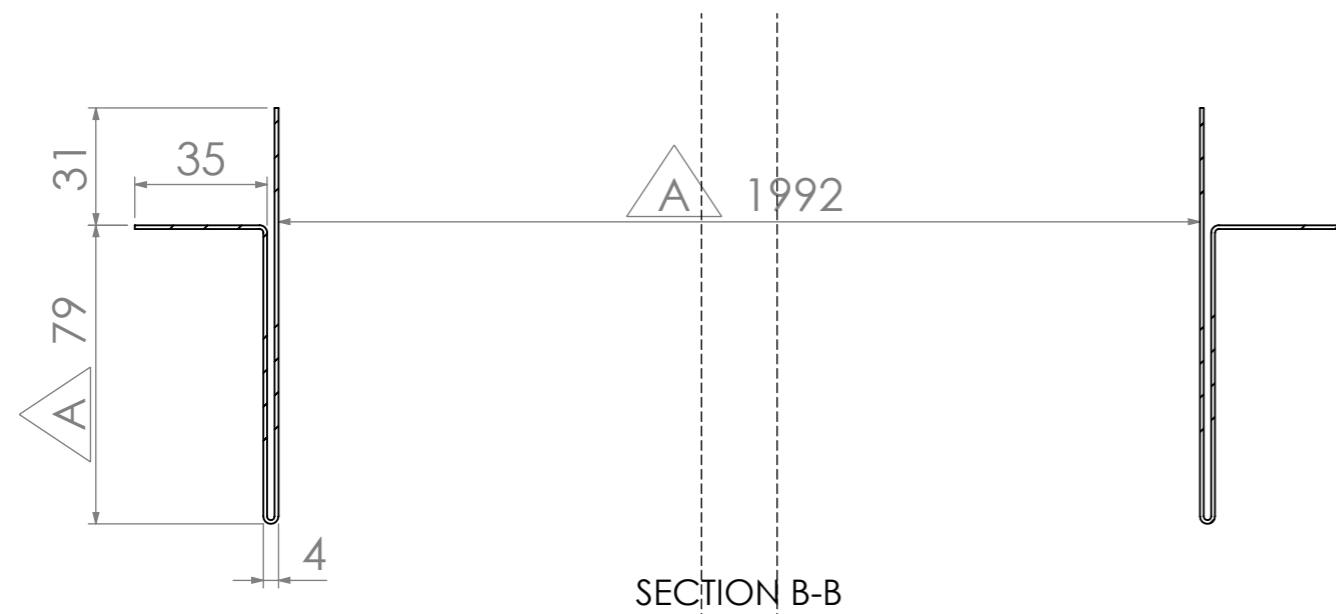
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.

MATERIAL:  
1.0330 (DC01 (SPO))  
WEIGHT: 13.23

Folder name: X:\Facadeplan\BFUH-2\	
Customer: Facadeplan	
TITLE: Indd. vindue, 1 mm plade	
DWG NO. <b>GKB-117517-7</b>	REVISION <b>A</b>
SCALE: 1:2	A3 SHEET 4 OF 4



SECTION A-A



SECTION B-B



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Fremspring ændret fra 78 til 79 mm; højde ændret fra 1894 til 1945 mm; bredde ændret fra 1993 til 1992 mm	27-11-2023	casper

NAME	DATE
DRAWN <b>casper</b>	27-11-2023

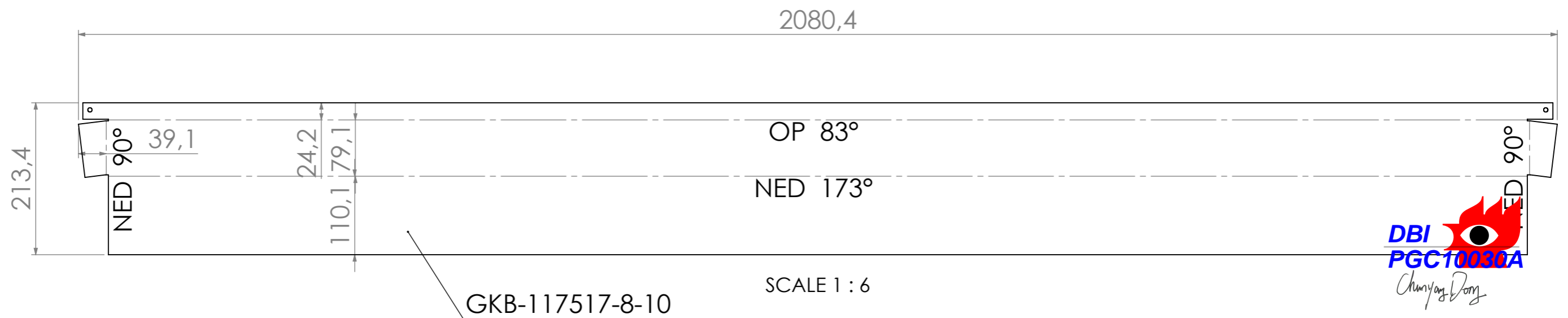
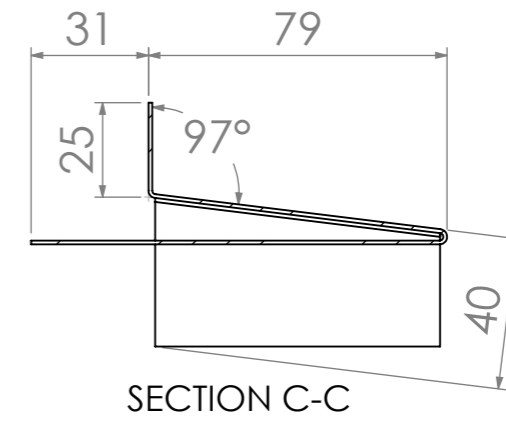
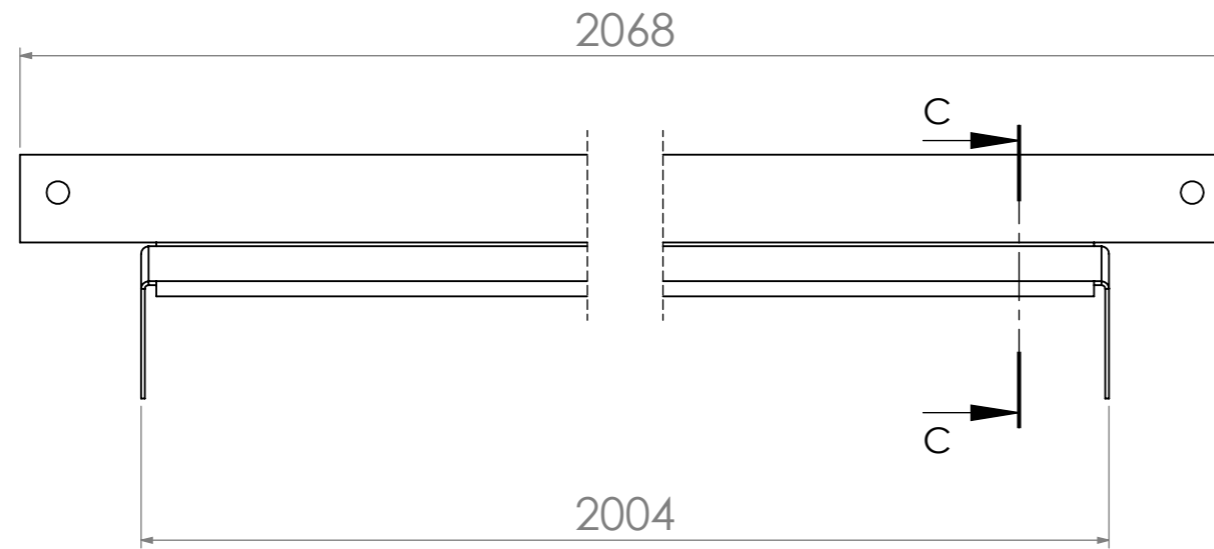


MATERIAL:  
1.0330 (DC01 (SPO))

WEIGHT: 10.18

Folder name: X:\Facadeplan\BFUH-2\ Customer: <b>Facadeplan</b> TITLE: <b>Indd. Indgang, 1 mm plade</b>	DWG NO. <b>GKB-117517-8</b>	REVISION <b>A</b>
SCALE: 1:2	A3	SHEET 1 OF 3

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.



OV: R1  
 UV: Spor 6  
 BT: 0,2 mm

NAME	DATE
DRAWN casper	27-11-2023

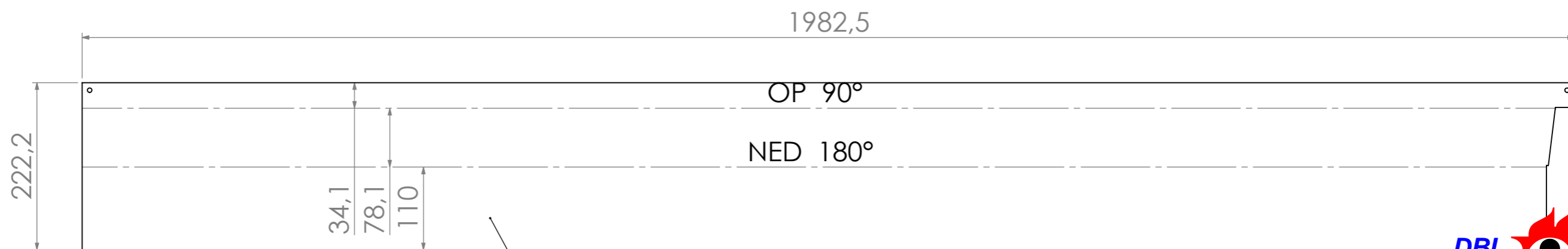
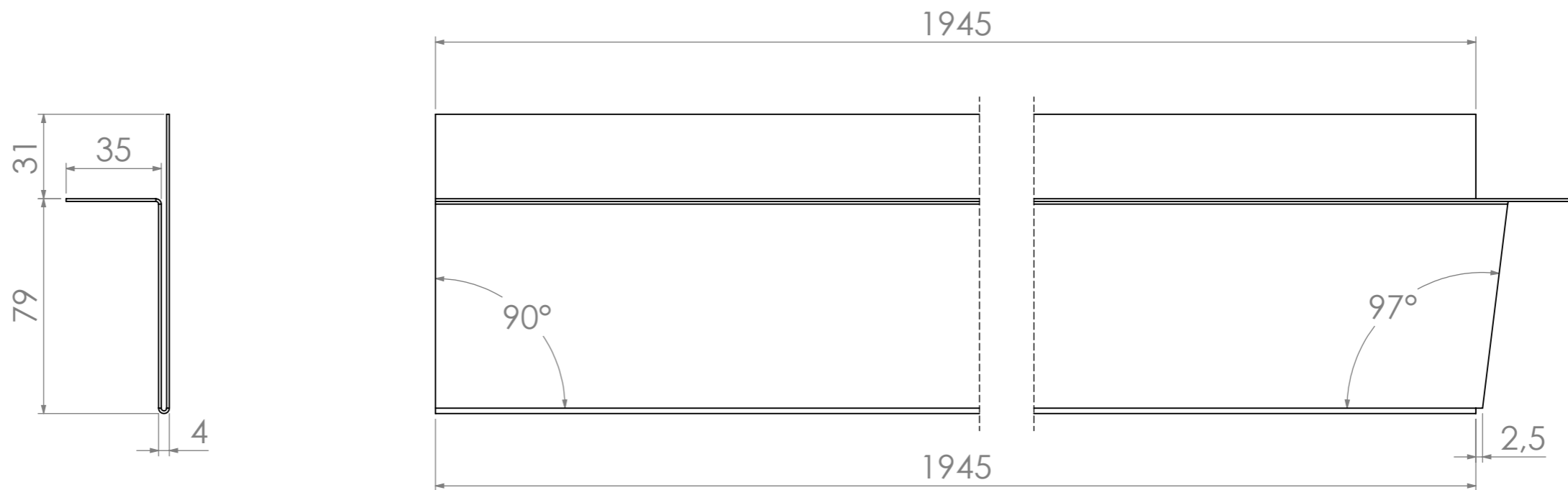


Folder name: X:\Facadeplan\BFUH-2\
Customer: Facadeplan
TITLE: Indd. Indgang, 1 mm plade

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: 10,18

DWG NO. <b>GKB-117517-8</b>	REVISION <b>A</b>
SCALE: 1:2	A3 SHEET 2 OF 3




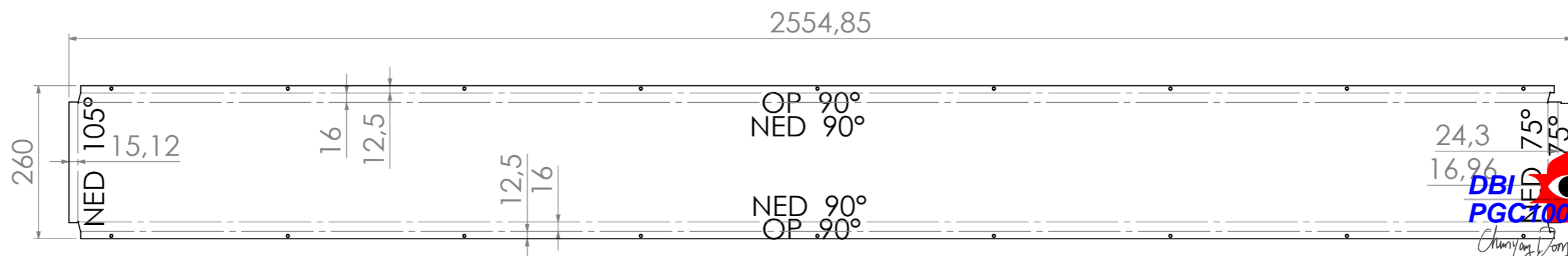
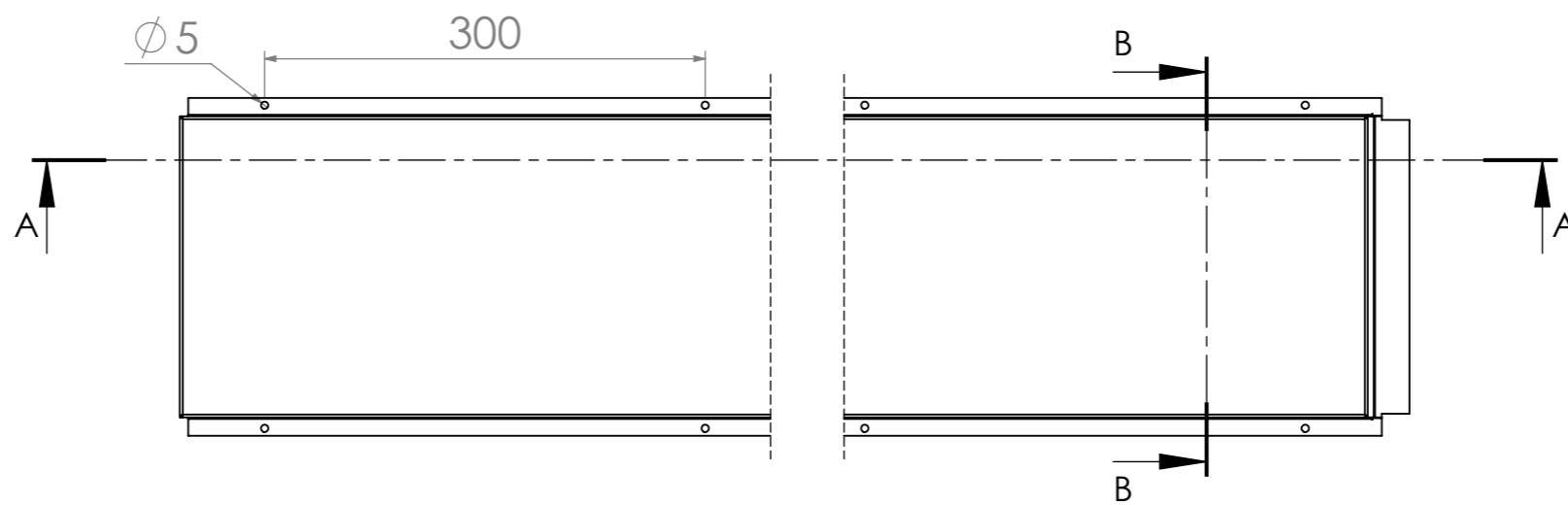
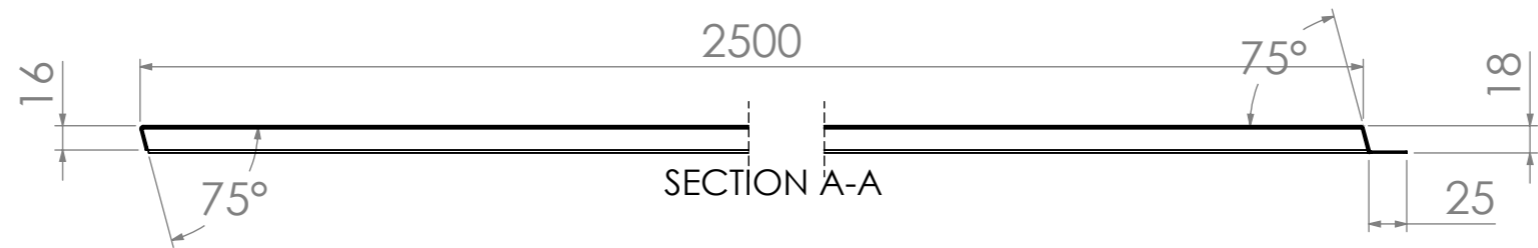
GKB-117517-8-20



OV: R1  
UV: Spor 6  
BT: 0,2 mm

GKB-117517-8-30 er spejlvendt af denne!

NAME	DATE		Folder name:	X:\Facadeplan\BFUH-2\
DRAWN <b>casper</b>	27-11-2023		Customer:	Facadeplan
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.			TITLE:	Indd. Indgang, 1 mm plade
MATERIAL:			DWG NO.	GKB-117517-8
WEIGHT: 10,18			SCALE: 1:2	REVISION
			A3	A
			SHEET 3 OF 3	



OV: R1  
 UV: Spor 8  
 BT: 0,0 mm

NAME	DATE
DRAWN casper	27-11-2023

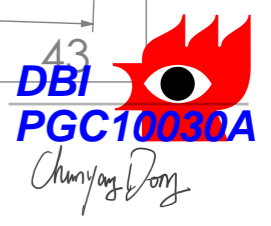
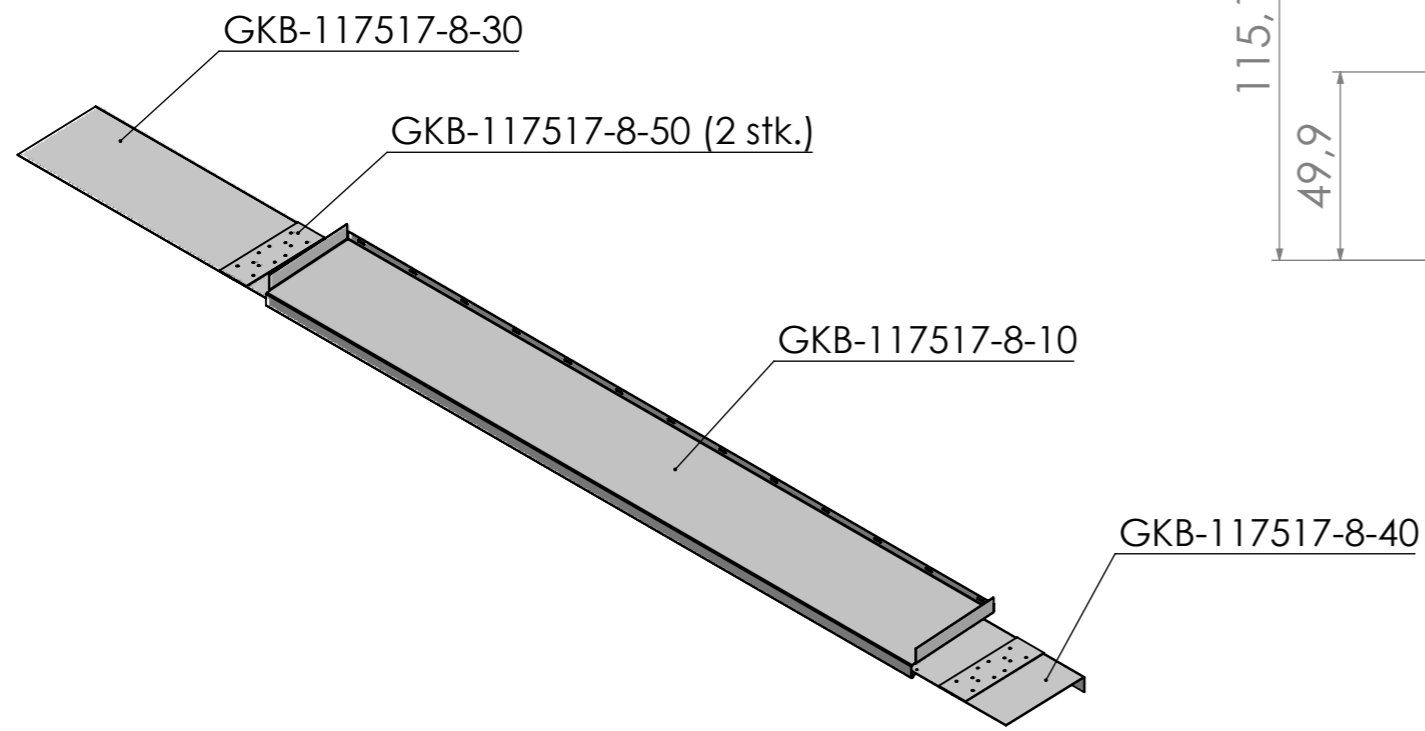
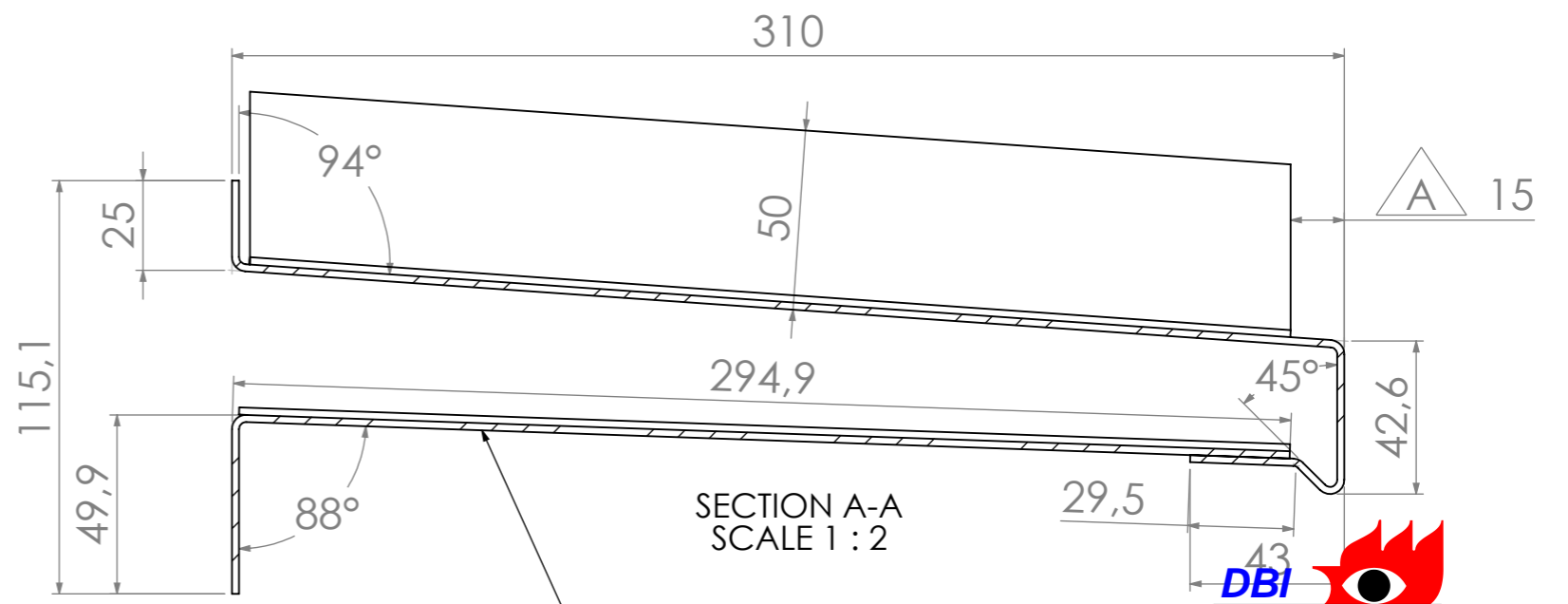
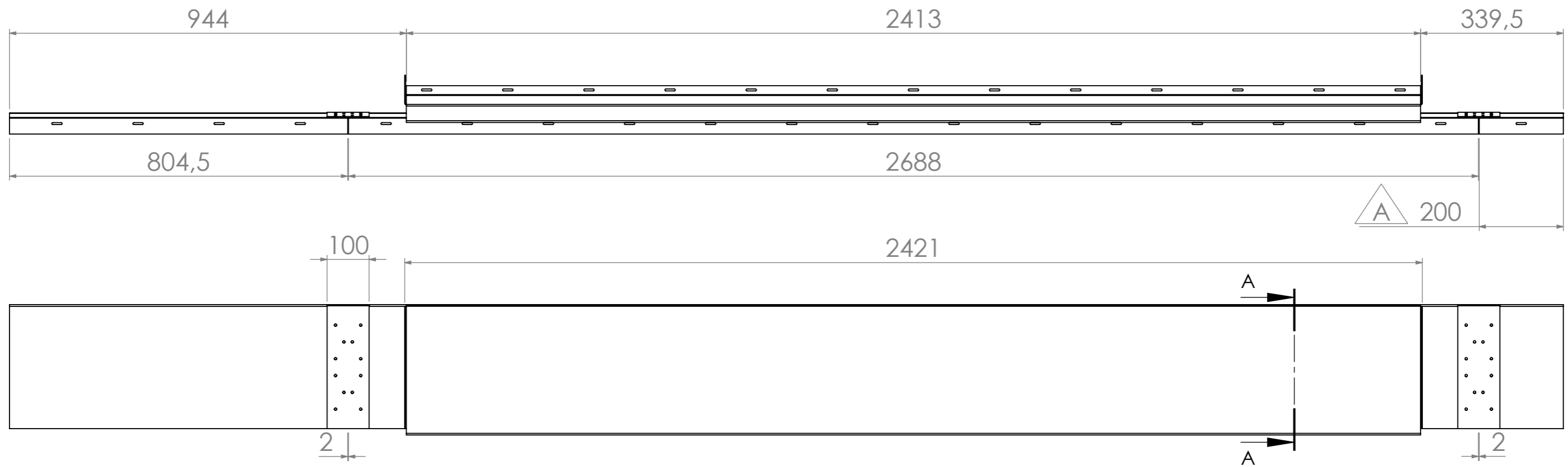


Folder name:  
 X:\Facadeplan\BFUH-2\  
 Customer:

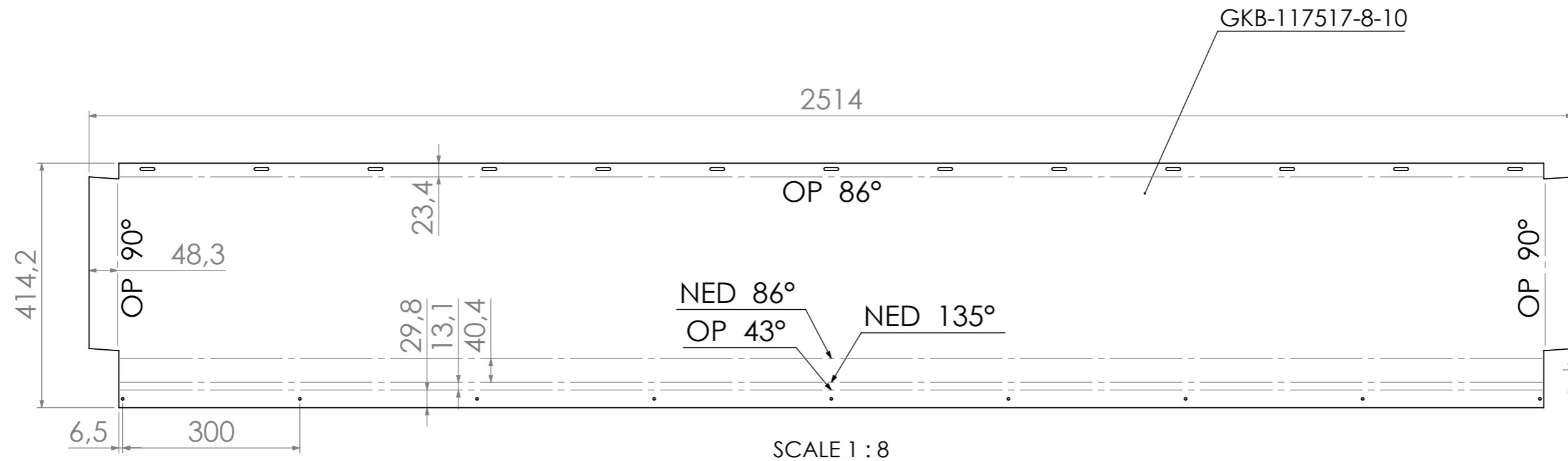
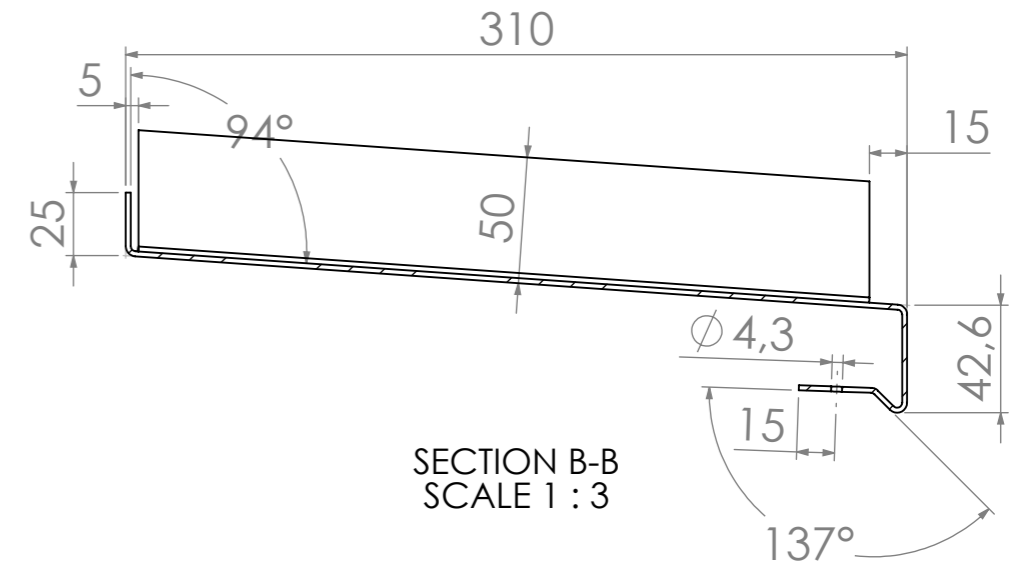
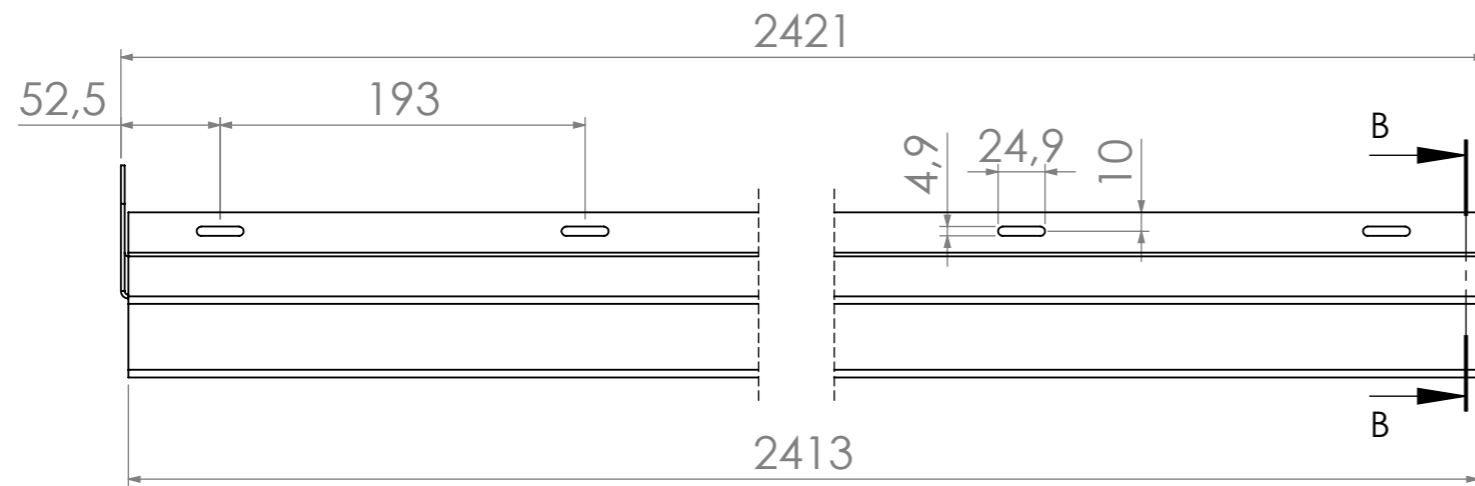
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
 Alle mål er i millimeter, medmindre andet er angivet.  
 Tegningen må ikke skaleres.

MATERIAL:  
 1.0330 (DC01 (SPO))  
 WEIGHT: 5.15

TITLE:  
 1 mm plade  
 DWG NO. **GKB-117517-9** REVISION  
 SCALE:1:5 A3 SHEET 1 OF 1



NAME	DATE		Folder name:	X:\Facadeplan\BFUH-2\
DRAWN <b>casper</b>	27-11-2023		Customer:	Facadeplan
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.			TITLE:	Flammeafbøjer, 2 mm plade
MATERIAL:			DWG NO.	GKB-117518-1
WEIGHT: 36.60			SCALE: 1:10	REVISION
			A3	A
			SHEET 1 OF 6	



OV: R1  
UV: Spor 12  
BT: 0,5 mm

NAME	DATE
DRAWN <b>casper</b>	24-11-2023

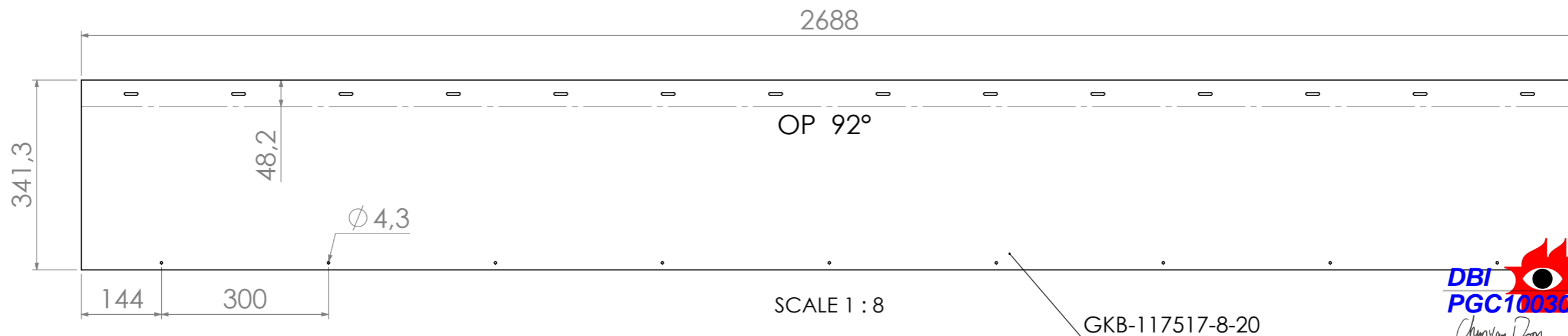
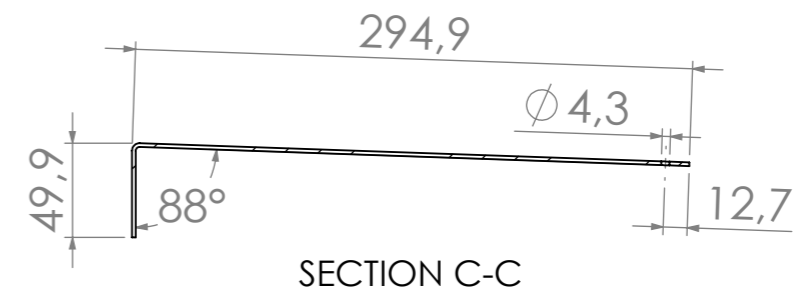
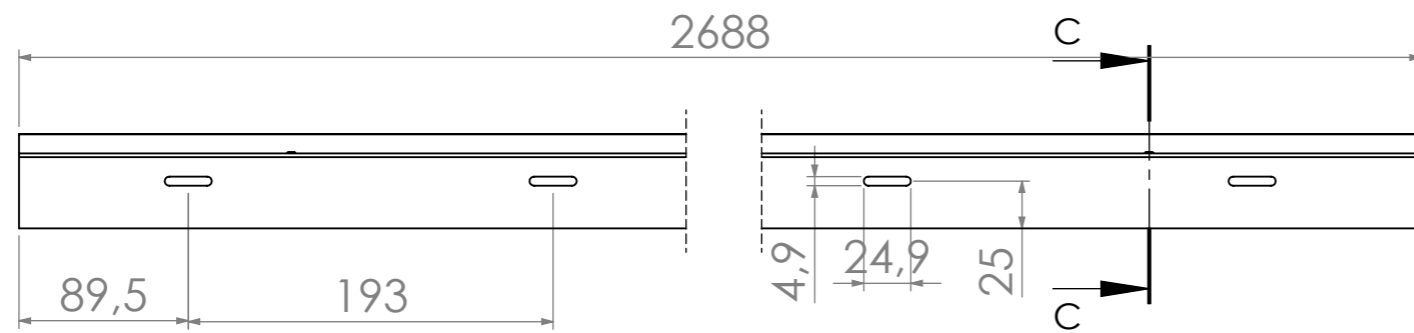


Folder name: X:\Facadeplan\BFUH-2\
Customer: <b>Facadeplan</b>
TITLE: <b>Flammeafbøjer, 2 mm plade</b>

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: 1.0037 (S235JR Decaperet)
WEIGHT: 36.60

DWG NO. <b>GKB-117518-1</b>	REVISION <b>A</b>
SCALE: 1:4	A3 SHEET 2 OF 6



OV: R1  
 UV: Spor 12  
 BT: 0,5 mm

NAME	DATE
DRAWN casper	24-11-2023



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.

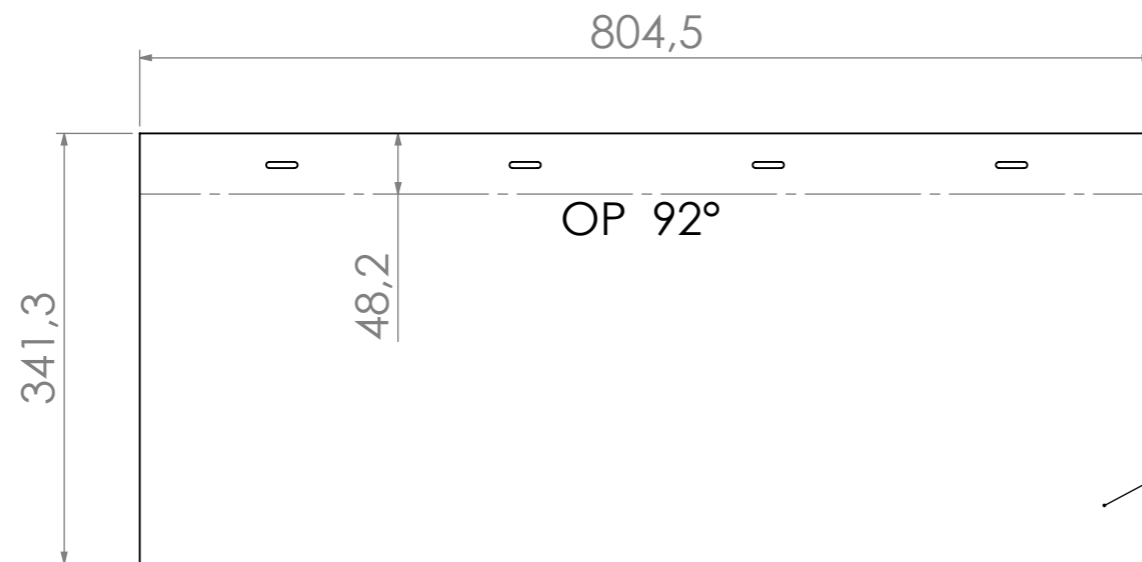
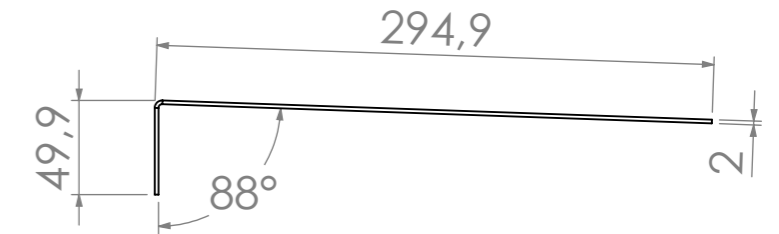
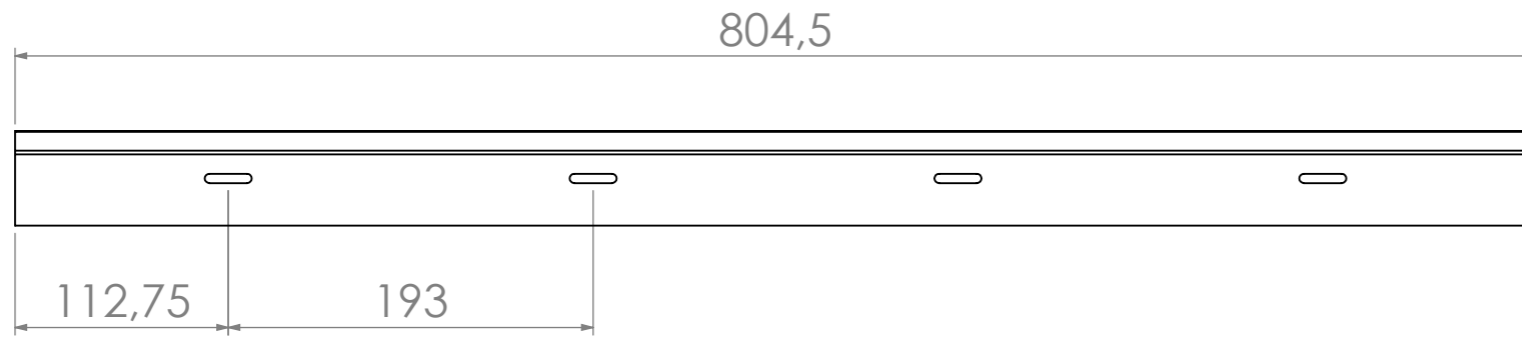
MATERIAL:  
 1.0037 (S235JR Decaperet)  
 WEIGHT: 36.60

Folder name:  
 X:\Facadeplan\BFUH-2\  
 Customer:  
 Facadeplan  
 TITLE:  
 Flammeafbøjer, 2 mm plade

DWG NO. **GKB-117518-1**

REVISION  
**A**





GKB-117517-8-30

SCALE 1 : 6



OV: R1  
UV: Spor 12  
BT: 0,5 mm

NAME	DATE
DRAWN <b>casper</b>	24-11-2023



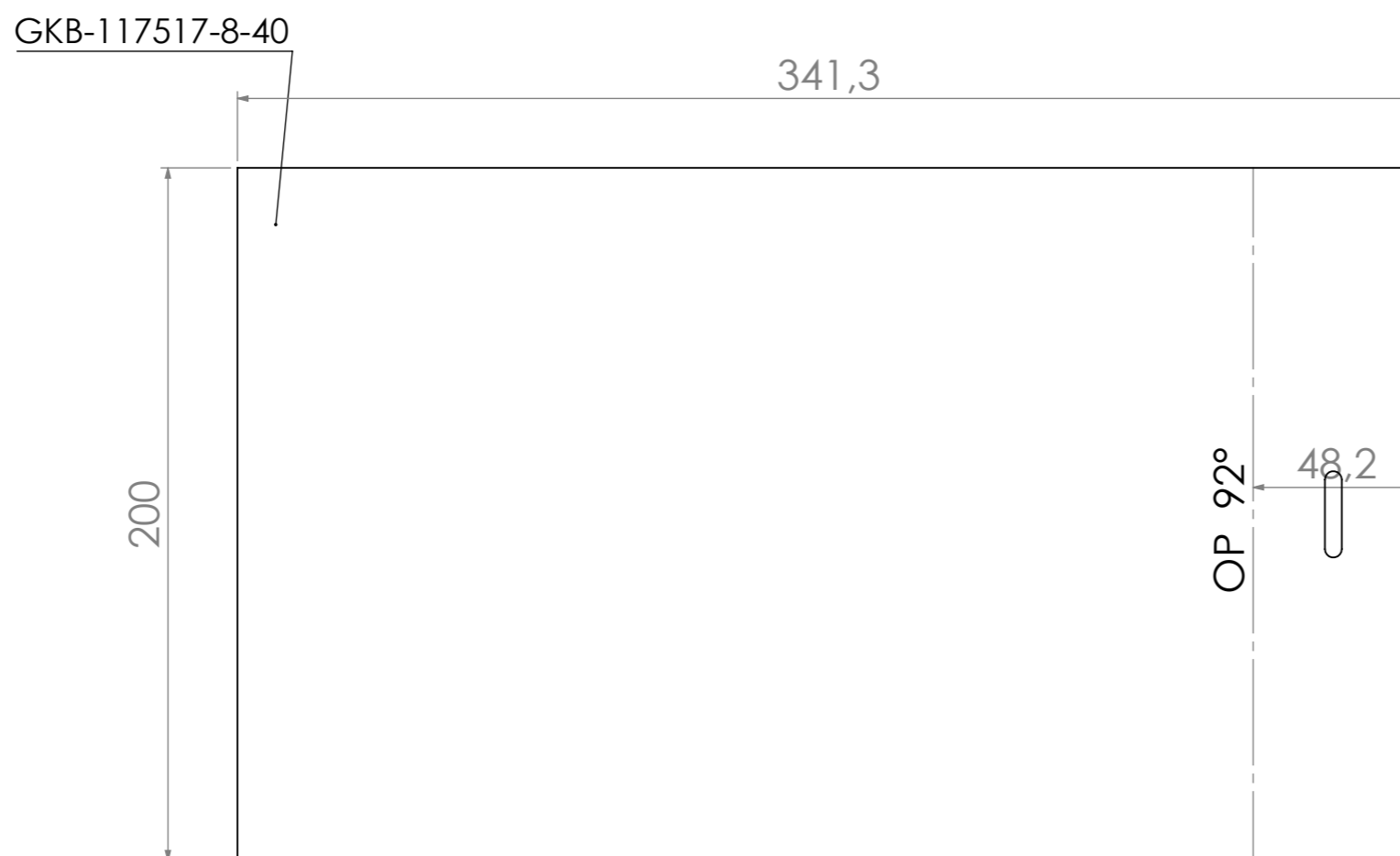
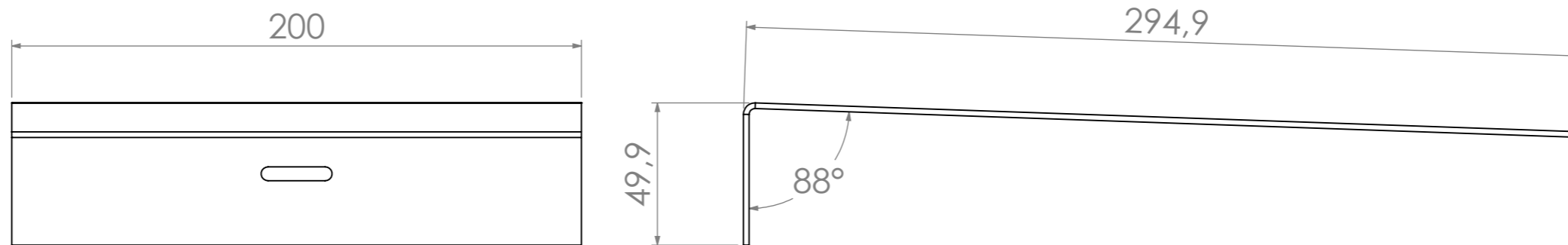
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
Alle mål er i millimeter, medmindre andet er angivet.  
Tegningen må ikke skaleres.

MATERIAL:  
1.0037 (S235JR Decaperet)  
WEIGHT: 36.60

Folder name:  
X:\Facadeplan\BFUH-2\  
Customer:  
**Facadeplan**  
TITLE:  
**Flammeafbøjer, 2 mm plade**

DWG NO. **GKB-117518-1**

REVISION  
**A**



OV: R1  
 UV: Spor 12  
 BT: 0,5 mm

NAME	DATE
DRAWN <b>casper</b>	24-11-2023



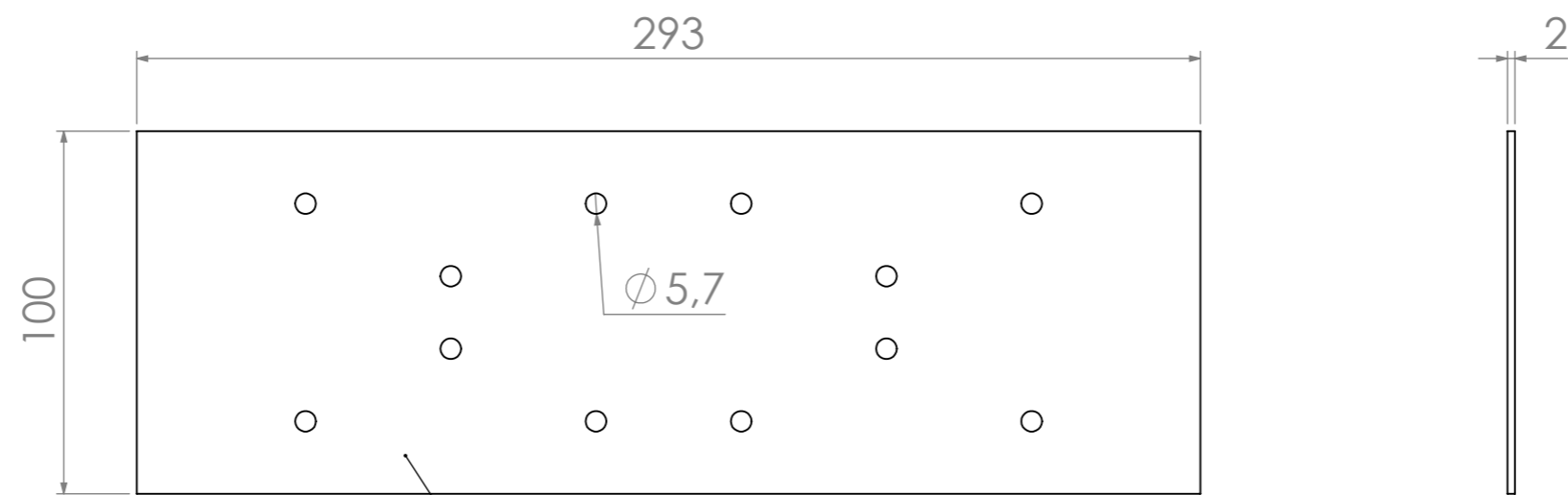
Hvor intet andet er angivet, er tolerancer i henhold til DS/ISO 2768-1 (m)  
 Alle mål er i millimeter, medmindre andet er angivet.  
 Tegningen må ikke skaleres.

MATERIAL:  
 1.0037 (S235JR Decaperet)  
 WEIGHT: 36.60

Folder name:  
 X:\Facadeplan\BFUH-2\  
 Customer:  
**Facadeplan**  
 TITLE:  
**Flammeafbøjer, 2 mm plade**


DWG NO. **GKB-117518-1**  
 SCALE: 1:2

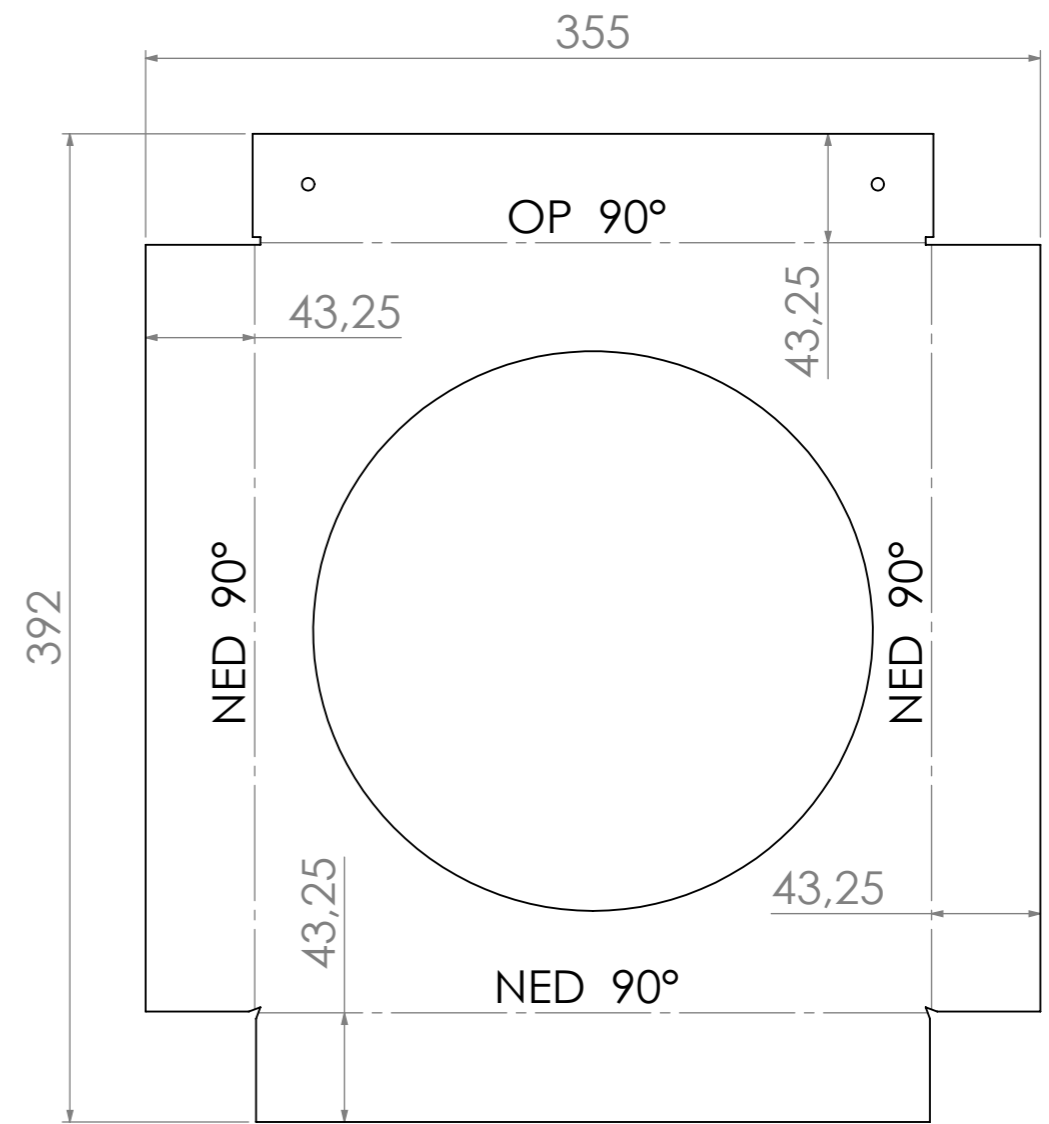
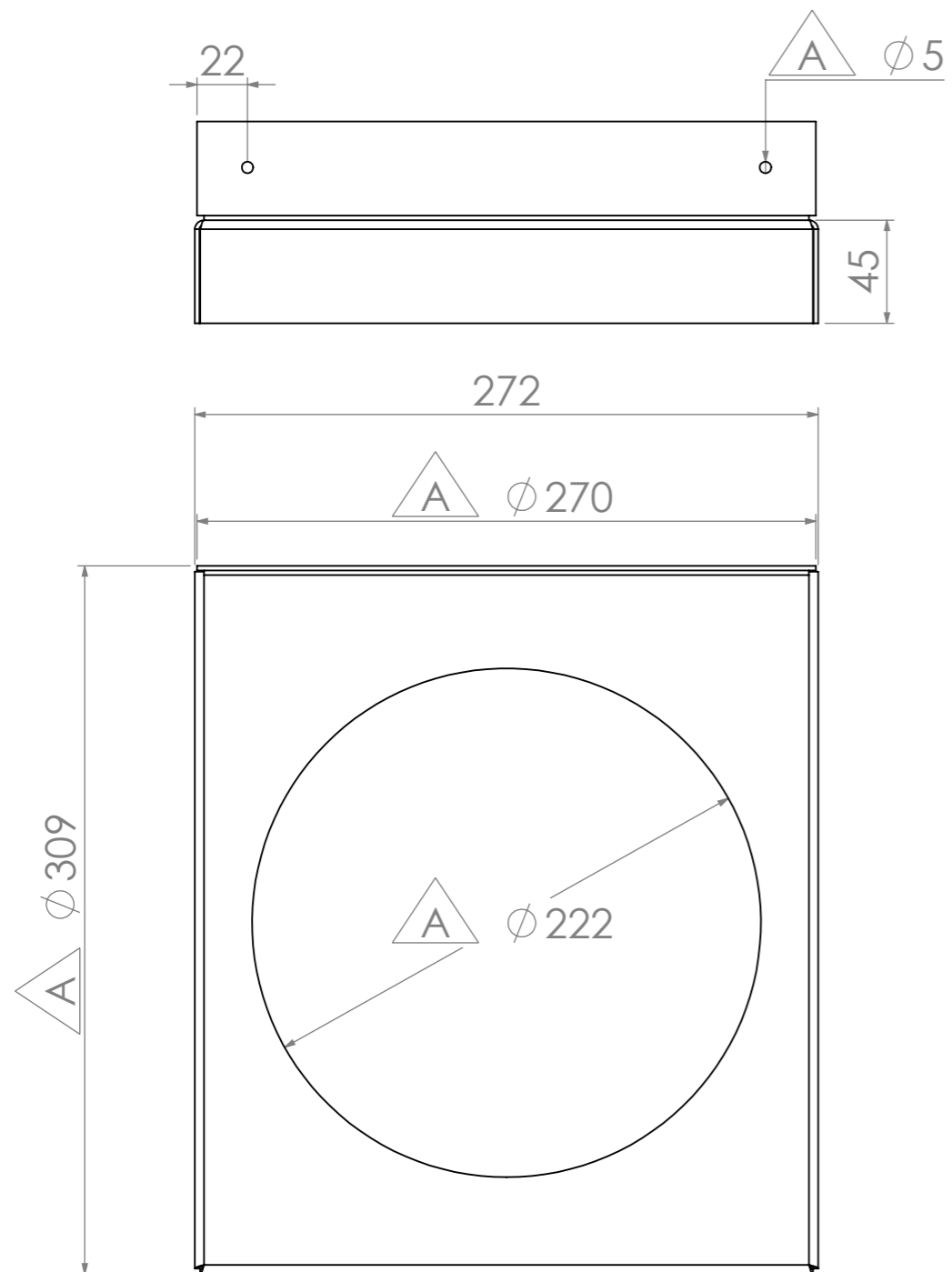
REVISION  
**A**



GKB-117517-8-50




	NAME	DATE		Folder name:	X:\Facadeplan\BFUH-2\	
DRAWN	casper	24-11-2023		Customer:	Facadeplan	
				TITLE:	Flammeafbøjer, 2 mm plade	
				DWG NO.	GKB-117518-1	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.			MATERIAL:	1.0037 (S235JR Decaperet)	SCALE:1:2	A3 SHEET 6 OF 6
			WEIGHT: 36.60			



OV: R1  
 UV: Spor 12  
 BT: 0,5 mm

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Ø222 hul tilføjet: Side huller Ø4,3 mm fjernet: bredde på kant 183->170: Ø6,5 huller ændret til Ø5; Mål 310,7 ændret til 309 mm	27-11-2023	casper

NAME	DATE		Folder name: X:\Facadeplan\BFUH-2\	
DRAWN <b>casper</b>	27-11-2023		Customer: <b>Facadeplan</b>	
			TITLE: <b>Lokumsbræt, Lodrette søjler, 2 mm plade</b>	
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: 1.0037 (S235JR Decaperet)	DWG NO. <b>GKB-117518-2</b>
			WEIGHT: 1.45	SCALE:1:3
			A3 SHEET 1 OF 1	
			REVISION <b>A</b>	