

Project

Bathhouse S5PD-p and S5PE-p



Author of the project: Hronos OÜ

Tallinn, ESTONIA

2022



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1 EXPLANATORY NOTE

1.1 Overview

1.1.1 Description

A large and spacious outdoor bath barrel has an innovative, thoughtful design and functional content inside. The summer bathhouse with dressing room is a 2 in 1 model as the seats and table in the dressing room easily transform into a 2.1m x 1.8m bed. This garden sauna with a diameter of 2.2m is available both assembled and unassembled, with a Harvia wood-burning stove and an 8 kW electric cooker. A semi-panoramic window, available as standard, provides comfort and convenience, as well as plenty of natural light in the dressing room and allows you to admire the beautiful view. The basic set also includes backrests, footrests and a floor.

Materials:

Barrel - spruce/thermowood (thickness 40 mm)

Benches and floor - thermowood

Door - tempered brown glass in the steam room,
outside wooden door with lock

Roof - asphalt shingles

Rings - stainless steel (4 pcs.)

Options:

Foundation - not required

Thickness - 40 mm

Length - 5 m

Width - 2.2 m

Height - 2.3 m (without chimney)

The seats in the living room are
transformed into a bed 2.1x1.8

Total area - 10 m²

1.1.2 Customer of the construction project

Baltresto Ltd

Harju County, Maardu City, Kaldas Road 2, 74114

1.1.3 Author of the project

Hronos OÜ

Harju County, Kuusalu Parish, Salmistu Village, Pedassaare Road 62, 74629

Responsible person: Andrei Vinshtein

Civil Engineer: Egor Gonchar

email hronosou@gmail.com

1.1.4 Primary documentation

1. Assembly manual for S5PD-p and S5PE-p

1.1.5 Normative documents

- EV Building Legislation
- MKM Regulation 17.07.2015 nr 97 "Projection requirements"



- EVS 932: 2017 Construction project.
- EVS-EN 1990: 2002 Fundamentals of Structural Design
- EVS-EN 1991-1-1: 2002 Loads on building structures. Part 1-1: Total loads.
- - Volumetric weight, own weight, payload of buildings.
- - EVS-EN 1991-1-3: 2006 Loads on building structures. Part 1-3: General loads.
- Snow load
- - EVS-EN 1991-1-4: 2005 Loads on building structures. Part 1-4: Wind load
- - EVS-EN 1995-1-1: 2005 Design of wooden structures. Part 1-1: General. General rules and regulations for the design of buildings.

1.2 Estimated service life

- The service life calculated in accordance with EVS-EN 1990:2002 paragraph 2.3 is 50a (category 4).

1.3 Implications and reliability class

- According to EVS-EN 1990:2002 p.b.3:
- - Impact class: CC2
- - Reliability class: RC2

1.4 Load

1.4.1 Loads of own weight

- Empty loads are calculated in accordance with the standard EVS-EN 1991-1-1:2002 and the data provided by the manufacturers of building materials.

1.4.2 Regulatory payload

- Payload according to EVS-EN 1991-1-1:2002:

Type of premises	Class	Total load q_k , kPa	Point load Q_k , kN
Sauna floor	A	1,0	1,0
Roof	H	0,6	1,2

1.4.3 Snow load

- According EVS-EN 1991-1-3:2006:
- Snow load on the ground: $s_k=1,5\text{kN/m}^2$
- Snow load coefficient: $\mu=0,8$
- Snow load on the roof: $s=1,2\text{kN/m}^2$

1.4.4 Wind load

- Wind load: $q_p(z)=0,383\text{kN/m}^2$
- Landscape Type: III

1.4.5 Other loads

No.



1.4.6 Spare coefficients

- Constant loads in the limit state (side effects) $\gamma_{G.sup}=1,20$
- Load variables in the limit state (side effects) $\gamma_Q = 1.50$
- Constant loads in normal operating limit state $\gamma_G=1,0$
- Load variables in normal maximum operating state $\gamma_Q = 1.0$

1.5 General tolerances and quality classes of load-bearing structures

- Follow the manufacturer's instructions with each use of the construction product (transportation, storage, processing, preparation of the base, etc.).

Wooden constructions

- When building wooden structures, comply with the requirements and tolerances specified in the Estonian standard EVS-EN 1995-1-1:2005.
- Lumber properties must comply with EVS-EN 338:2016.
- Lumber tolerances must comply with EVS-EN 336:2013.
- Determination of the physical and mechanical properties of wood in accordance with EVS-EN 408:2010.

1.6 Fire resistance

The building belongs to the class of fire resistance TP3, fire resistance requirements are not set.

DIMENSIONAL DRAWINGS

SHEET LIST	D101
3D VIEW 1	D102
3D VIEW 2	D103
3D VIEW 3	D104
FLOOR PLAN	D105
FRONT FACADE; LEFT FACADE	D106
SECTION S1; SECTION S2;	D107
DETAILS	D108

Object: BATHHOUSE s5pd-p and s5pe-p			Project number 105_PP_EK-3-02	
CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing SHEET LIST		
		Drowing number D101		



1

3D VIEW 1

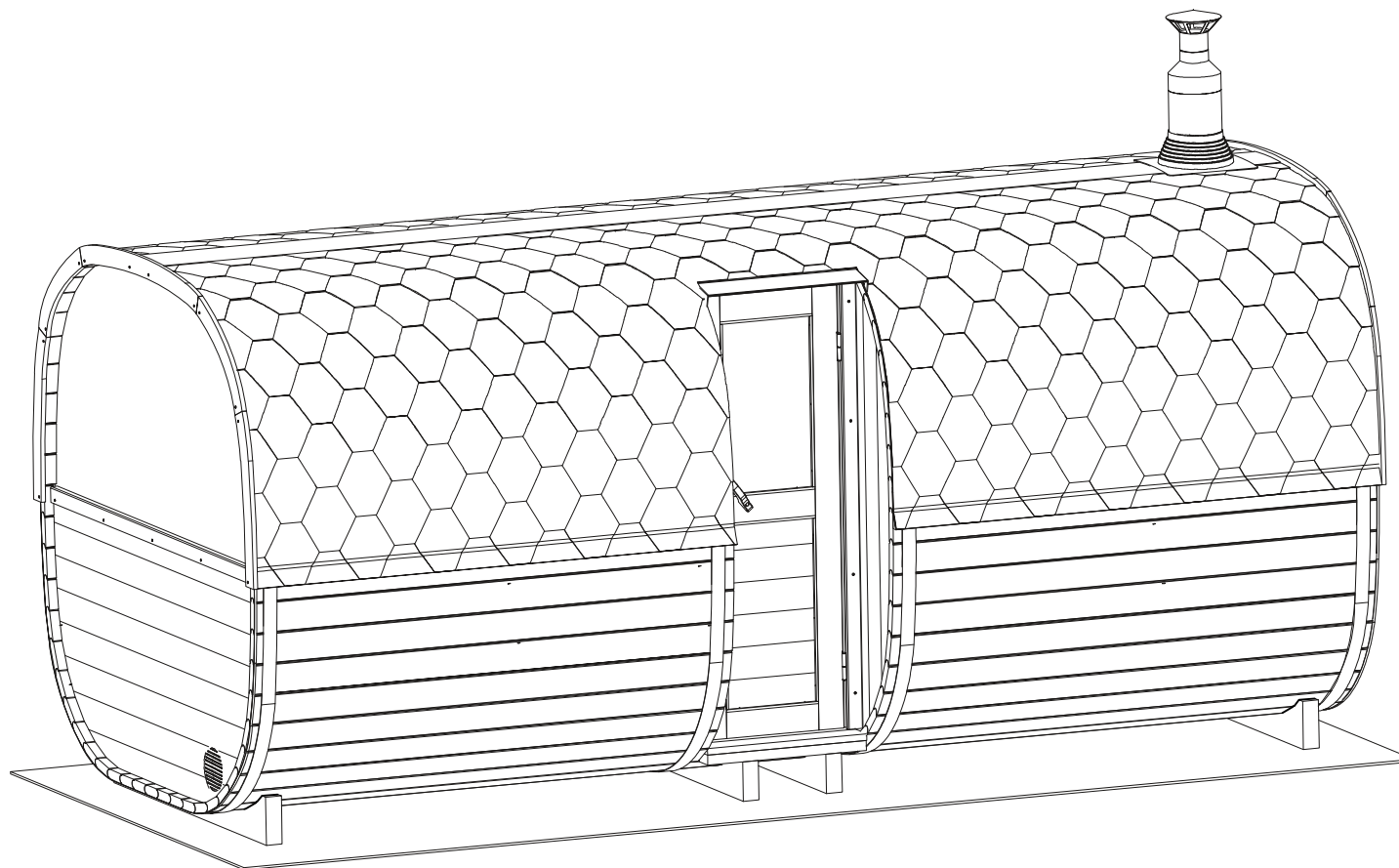
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CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing 3D VIEW 1		
		Drowing number D102		



1

3D VIEW 2

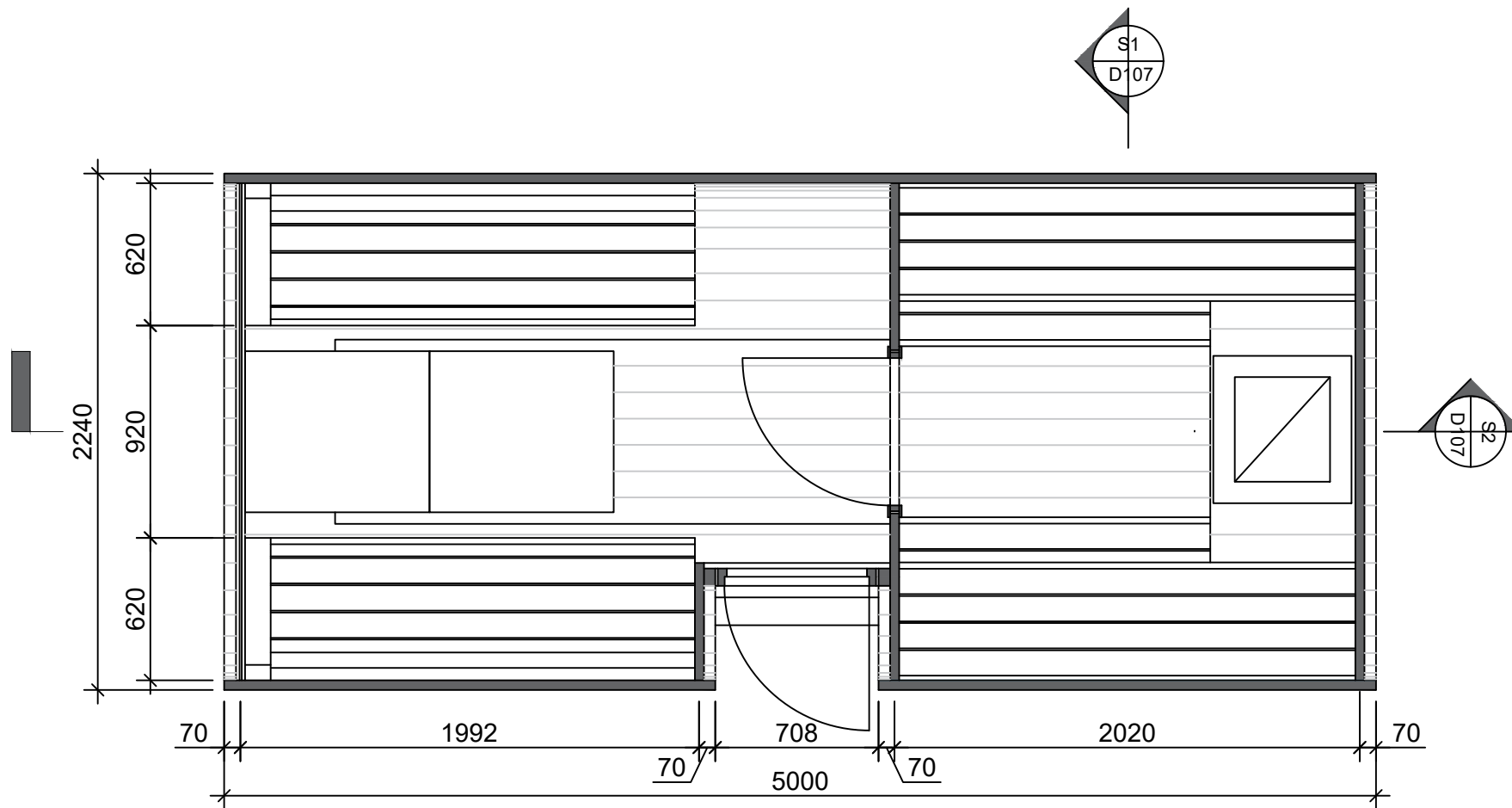
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CUSTOMER BALRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing 3D VIEW 2		
		Drowing number D103		



2

3D VIEW 3

Object: BATHHOUSE s5pd-p and s5pe-p			Project number 105_PP_EK-3-02	
CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing 3D VIEW 3		
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FLOOR PLAN

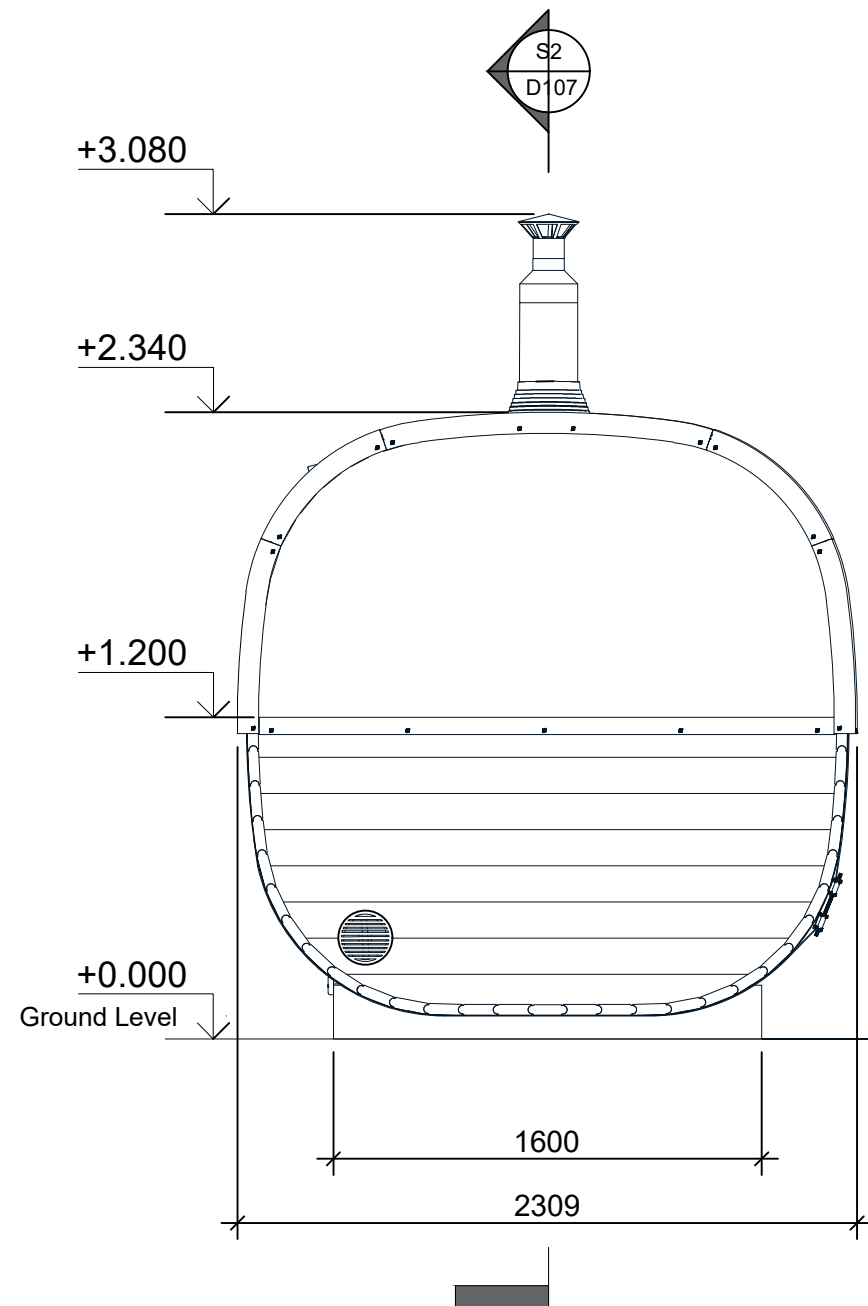
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1 : 25

0 0.5 1 1.5 2m

1:25

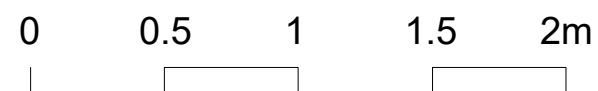
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CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale 1:25
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing FLOOR PLAN		
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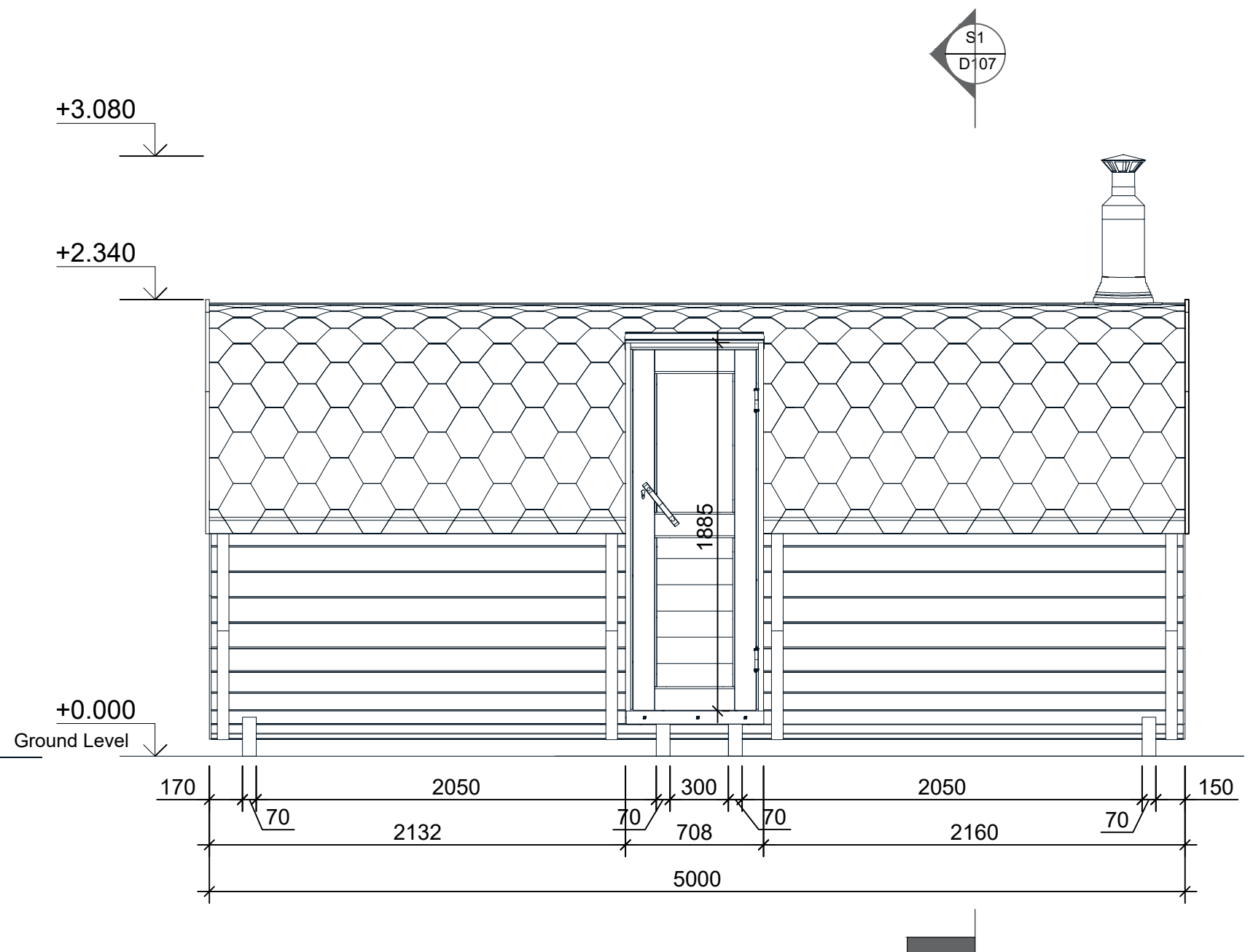
LEFT FACADE

1

1 : 25



1:25

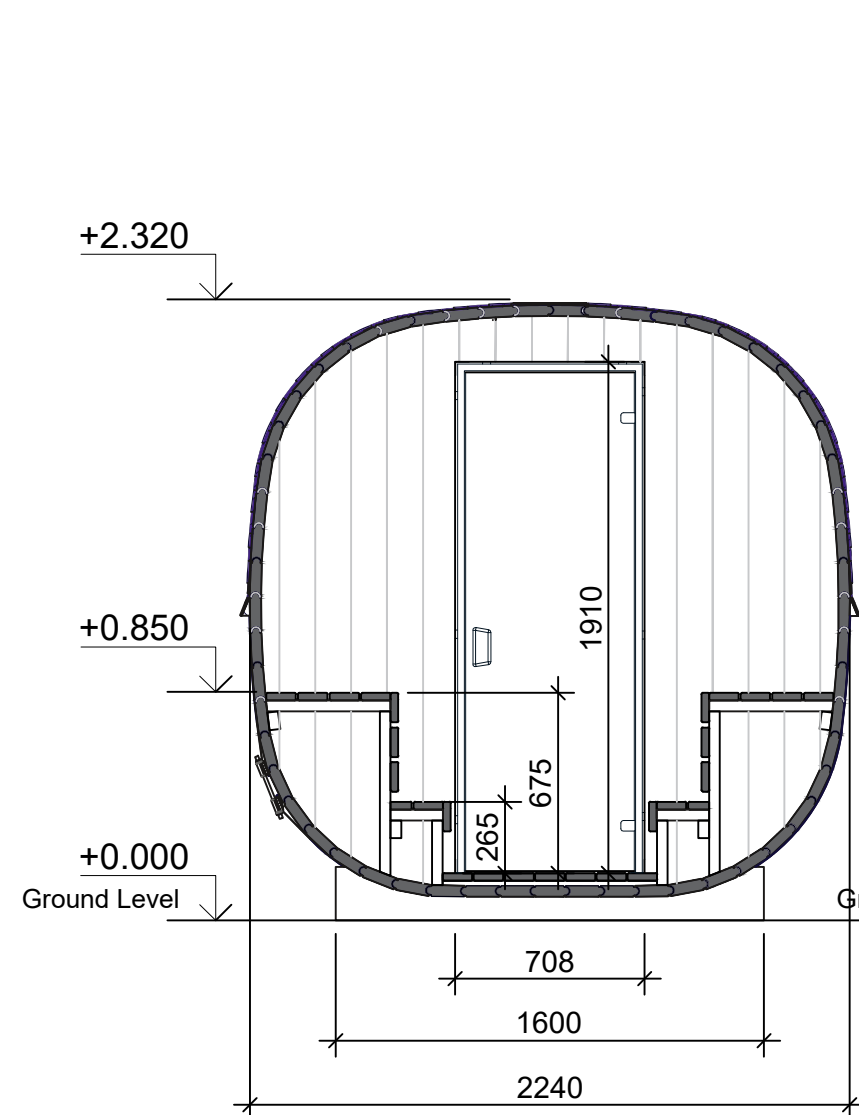


FRONT FACADE

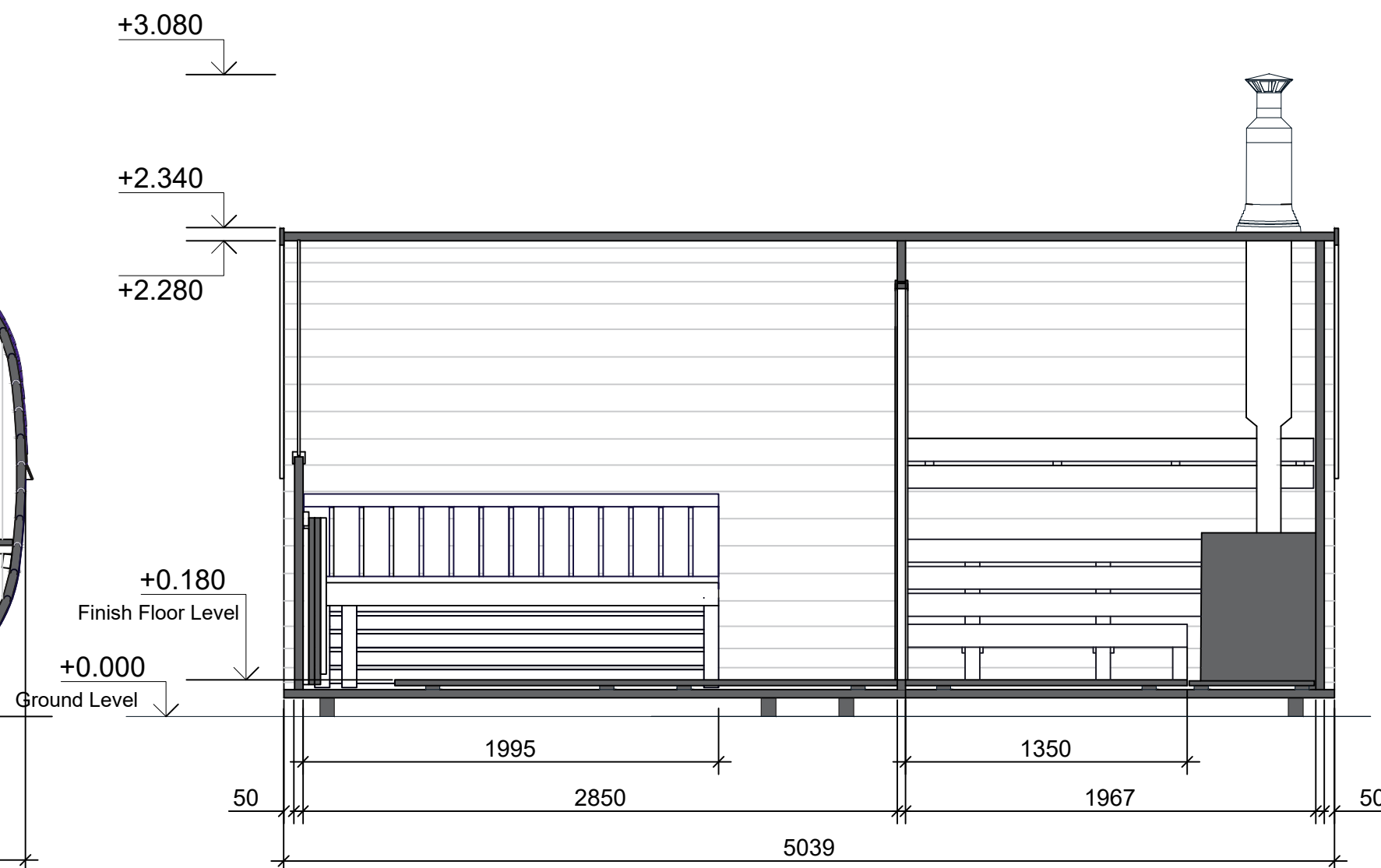
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1 : 25

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CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale 1:25
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing FRONT FACADE; LEFT FACADE		
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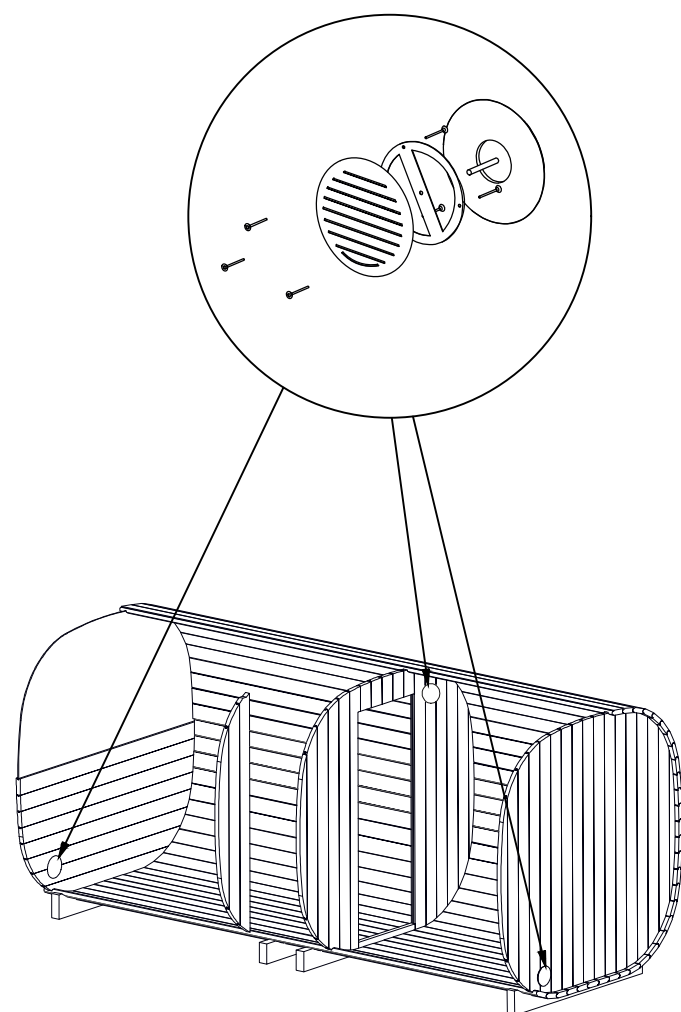


SECTION S1
S1 1 : 25

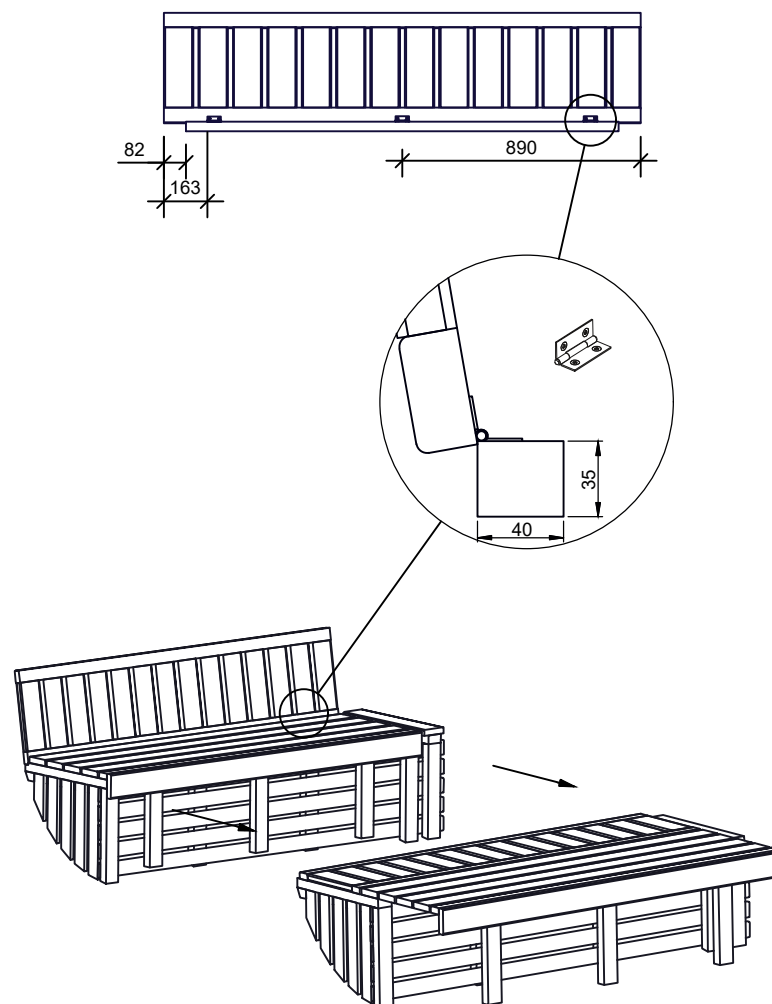


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S2 1 : 25

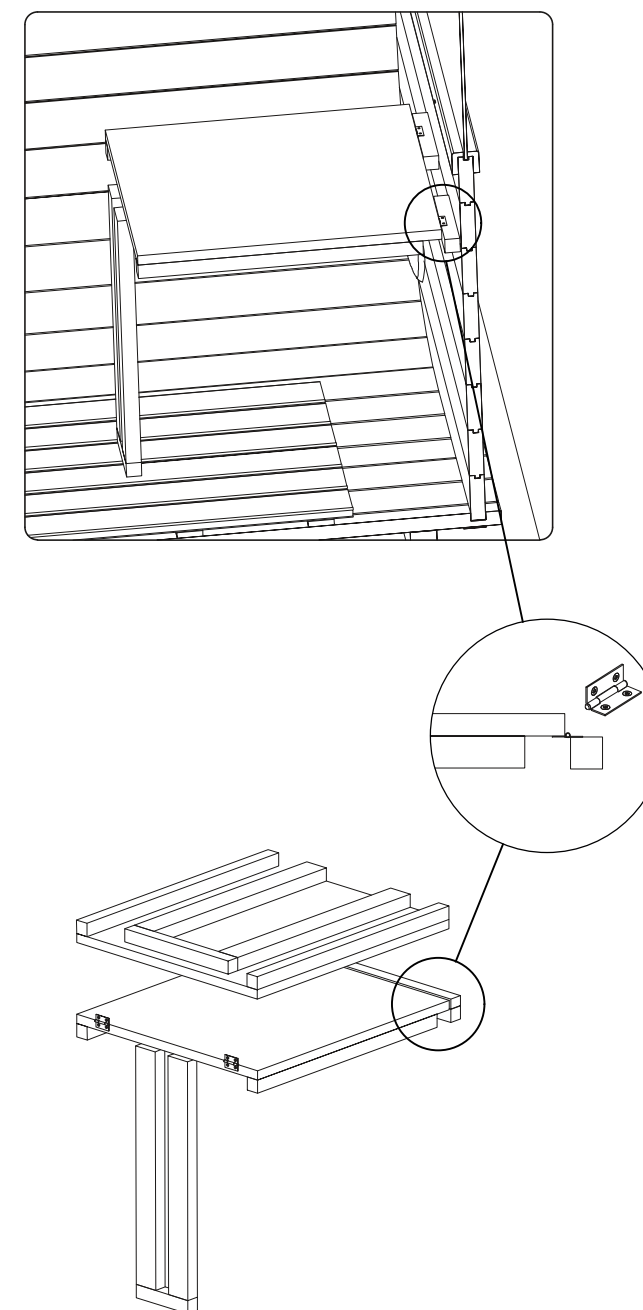
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CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale 1:25
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing SECTION S1; SECTION S2;		
		Drowing number D107		



1 VENTILATION SET



2 BENCHES
1 : 25



3 FOLDING TABLE

Object: BATHHOUSE s5pd-p and s5pe-p			Project number 105_PP_EK-3-02	
CUSTOMER BALTRESTO	Draftsman Egor Gonchar	Compitent person Andrei Vinshtein	Date 10,06,2022	Scale 1:25
HRONOS OÜ Reg. nr 14731115. GSM: +372 5600 3664 MTR EEH011193 e-mail hronosou@gmail.com		Drowing DETAILS		
		Drowing number D108		