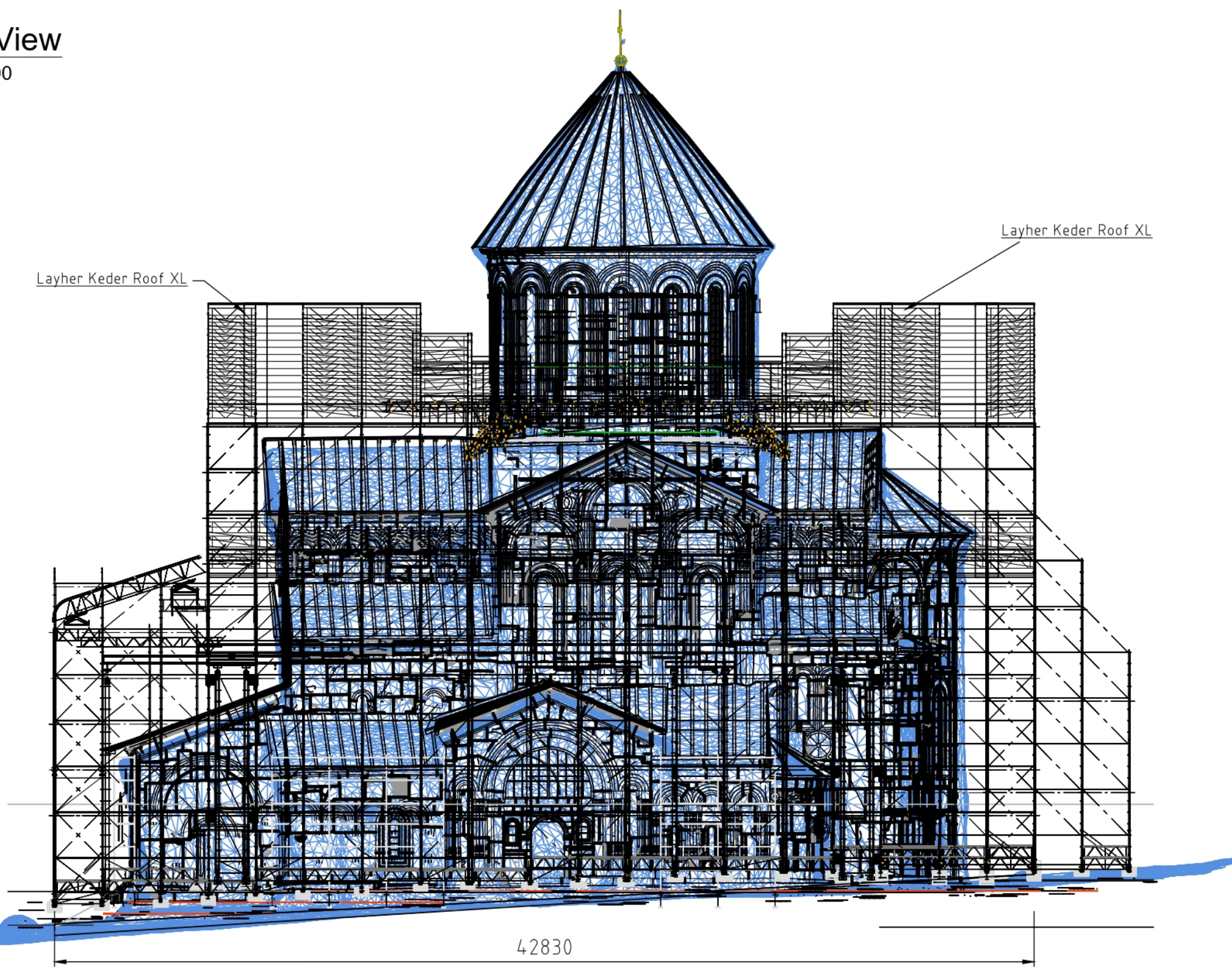
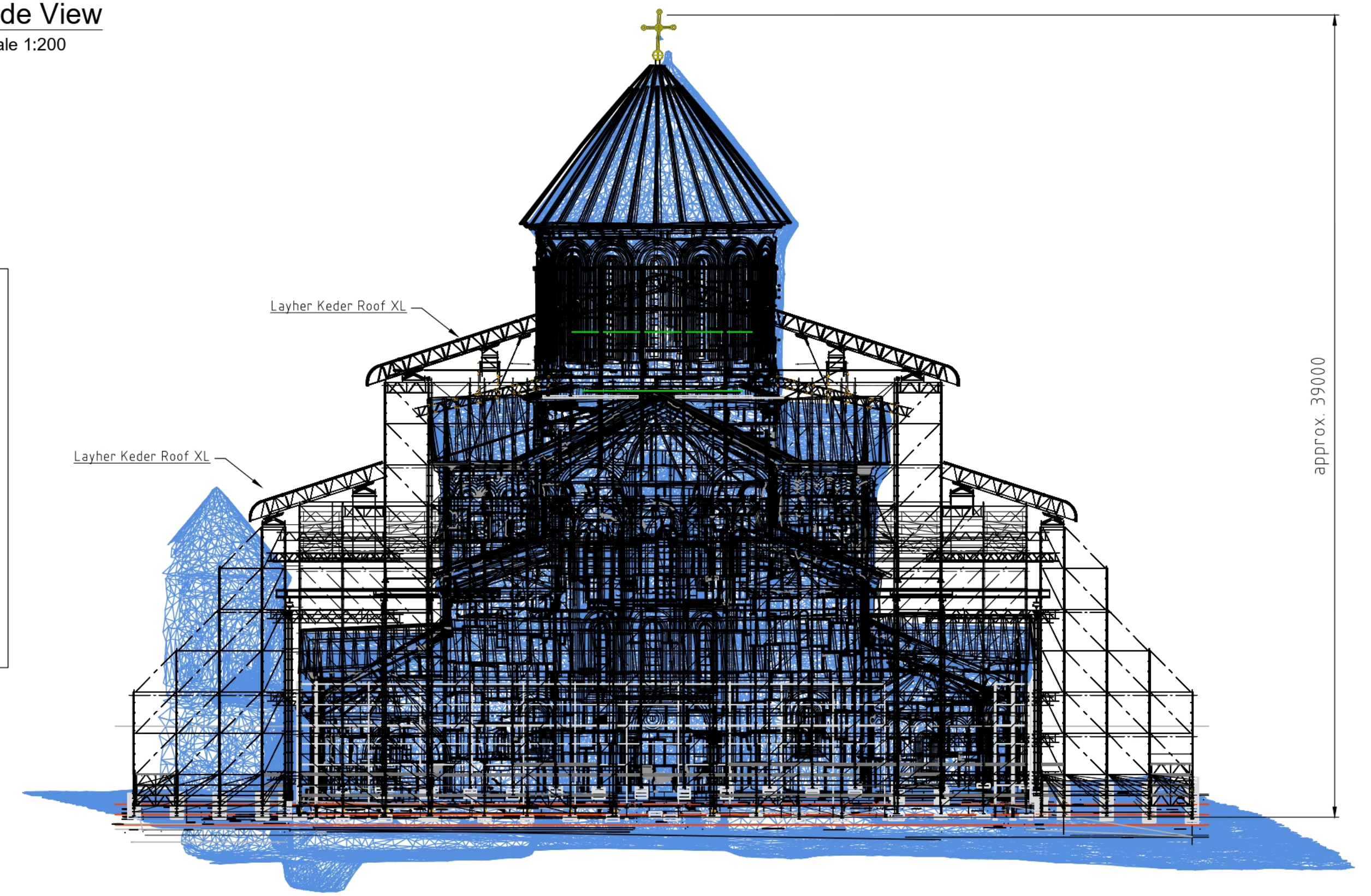


Front View
Scale 1:200



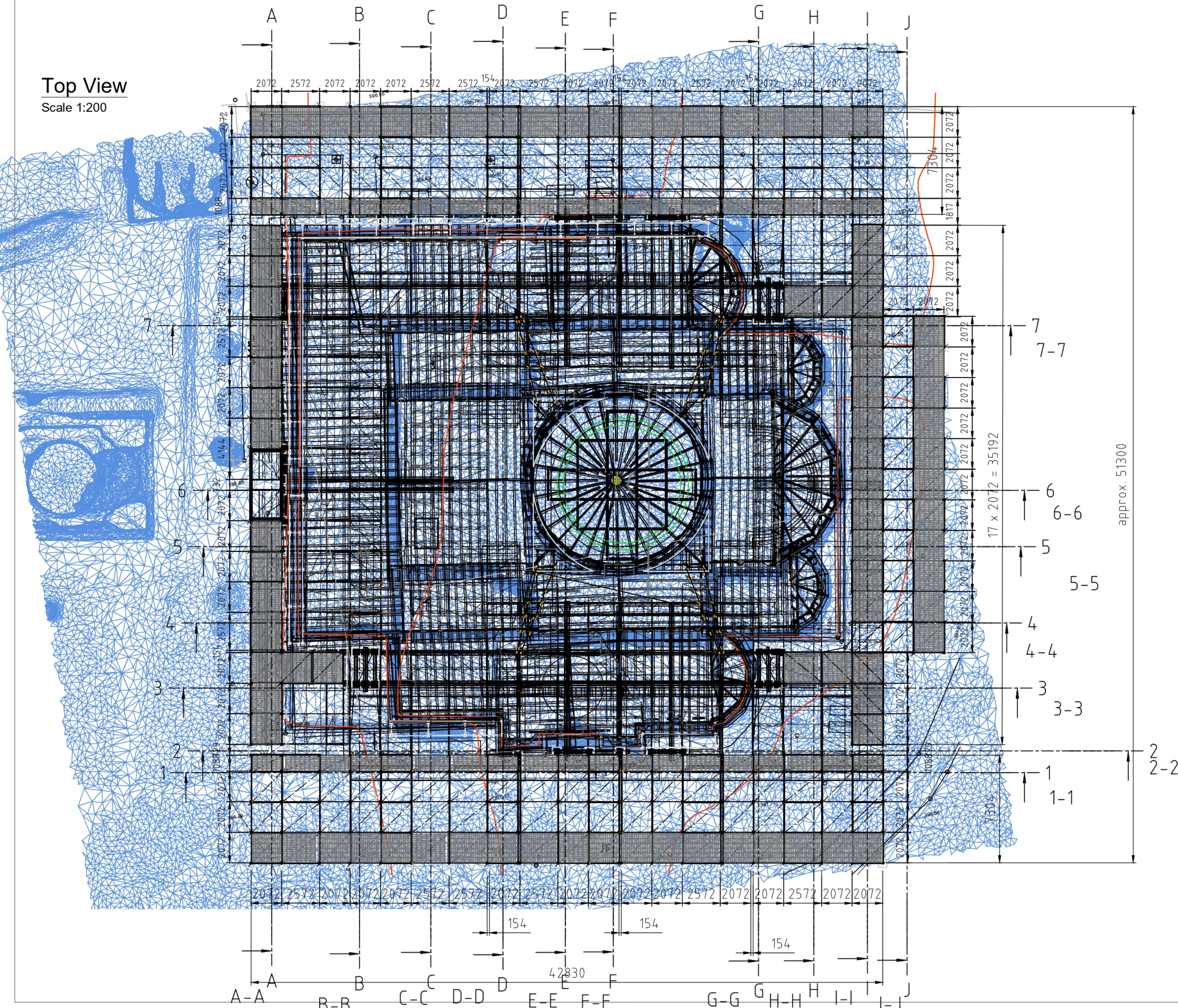
Side View
Scale 1:200



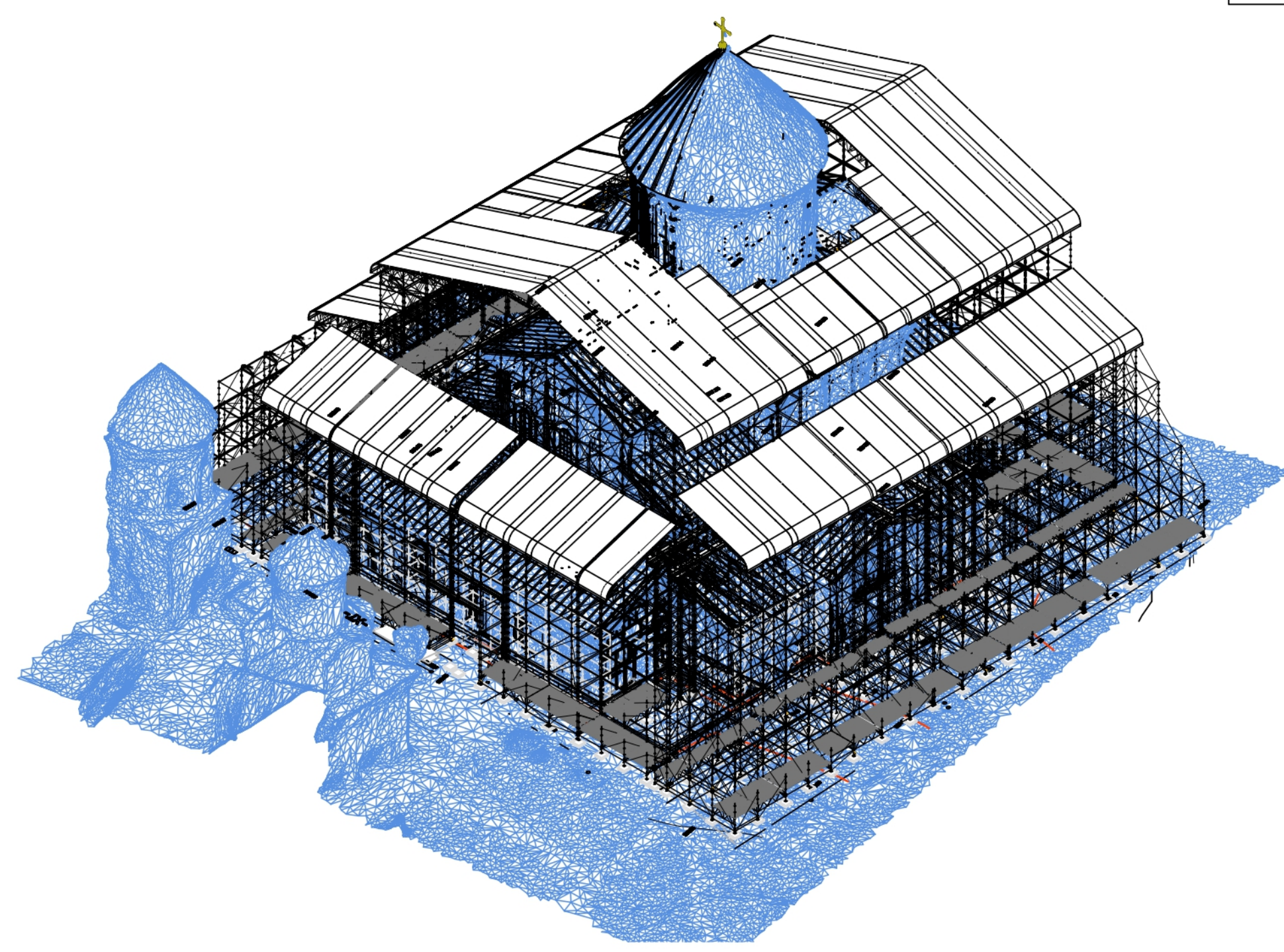
Chapter 1:
Summary of loads
1. Dead load according to documents Layher and technical drawings
2. Snow load
 $s_k = 0,25 \text{ kN/m}^2$. The snow on the roof has to be removed, when the height exceeds 10cm
3. Wind load
 $q_b = 0,47 \text{ kN/m}^2$ see DIN EN 1991-1-4 NA.A Kategorie II-III
Temporary construction, checked once a year
 $c_t = 0,7$ see DIN EN 1991-1-4 NA.B
4. Earthquake
Grundtype R, $a_{gr} = 0,14 \times g$, according to EN 1998

The scaffold has to be connected at every corner with tubes and couplers in every level!

Top View
Scale 1:200



Isometric view
n.t.s.



This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

Modular Scaffolding System
Layher Allround
Approval-Nr.: Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.: Z - 8.22 - 939

The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

All measures have to be checked!

- R=Tube $\varnothing 48,3 \times 4,0 \text{ mm}$
DR=2xTube $\varnothing 48,3 \times 4,0 \text{ mm}$
- Couplers acc. EN 12811-1
- NK=Right Angle Coupler (class B)
Fs,k=15,0 kN
- DK=Swivel Coupler (Class A)
Fs,k=10,0 kN
- NK+VK=Right Angle Coupler+additional (class BB)
Fs,k=25,0 kN

Structural engineer			
Dipl.-Ing. Volker Knobloch			
Andersenstr. 16 D-74078 Heilbronn, Germany			
Tel.: 0049 7141 9179841 Fax: / 9179849			
mailto:info@volker-knobloch.de			
Project: Monastery of Gelati			
Temporary Roof			
Without Dome			
Principal: Lucian Tenereș of Partracal			
Throne of Georgia			
Scale:	pr. VK	drawn	Project
	sh. VK	15.12.23	20-090
			Drawn: 11
Version 10.05.24			

- N.B.:**
- This drawing was prepared on the basis of the information provided. Statutory compliance and suitability for use to be verified on site.
 - Assembly instructions as well as any special instructions in the technical offer are to be adhered to.
 - Structure to be founded on ground of suitable load-bearing capacity. Load distribution to be provided as necessary. Load transfer in to substructure or ground to be checked as necessary.
 - Plan dimensions are centre to centre unless otherwise stated.

- Drainage to be assured on site by suitable means.
- Roof slope to ensure drainage of the roof: min. 15° (Keder roof), min 11° (steel cassette roof).
- Structure to be closed on all sides! Cladding of side and gable walls to be provided on site.
- Cladding with scaffold tarpaulins or keder tarpaulins:
 - spacing of tarpaulin connectors $\leq 30 \text{ cm}$
 - spacing of rail mounts $\leq 1,0 \text{ m}$
- Gap between wall cladding and roof to be closed on site using suitable measures.
- Keder rails are to be cut to length on site if necessary.
- Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or LW-standards).

This drawing is valid in conjunction with the use of original Layher material only. Detailed information on components see parts list.
Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary.
All details are subject to the valid Terms and conditions available at www.layher.com.

No.	Alteration	Date	Name

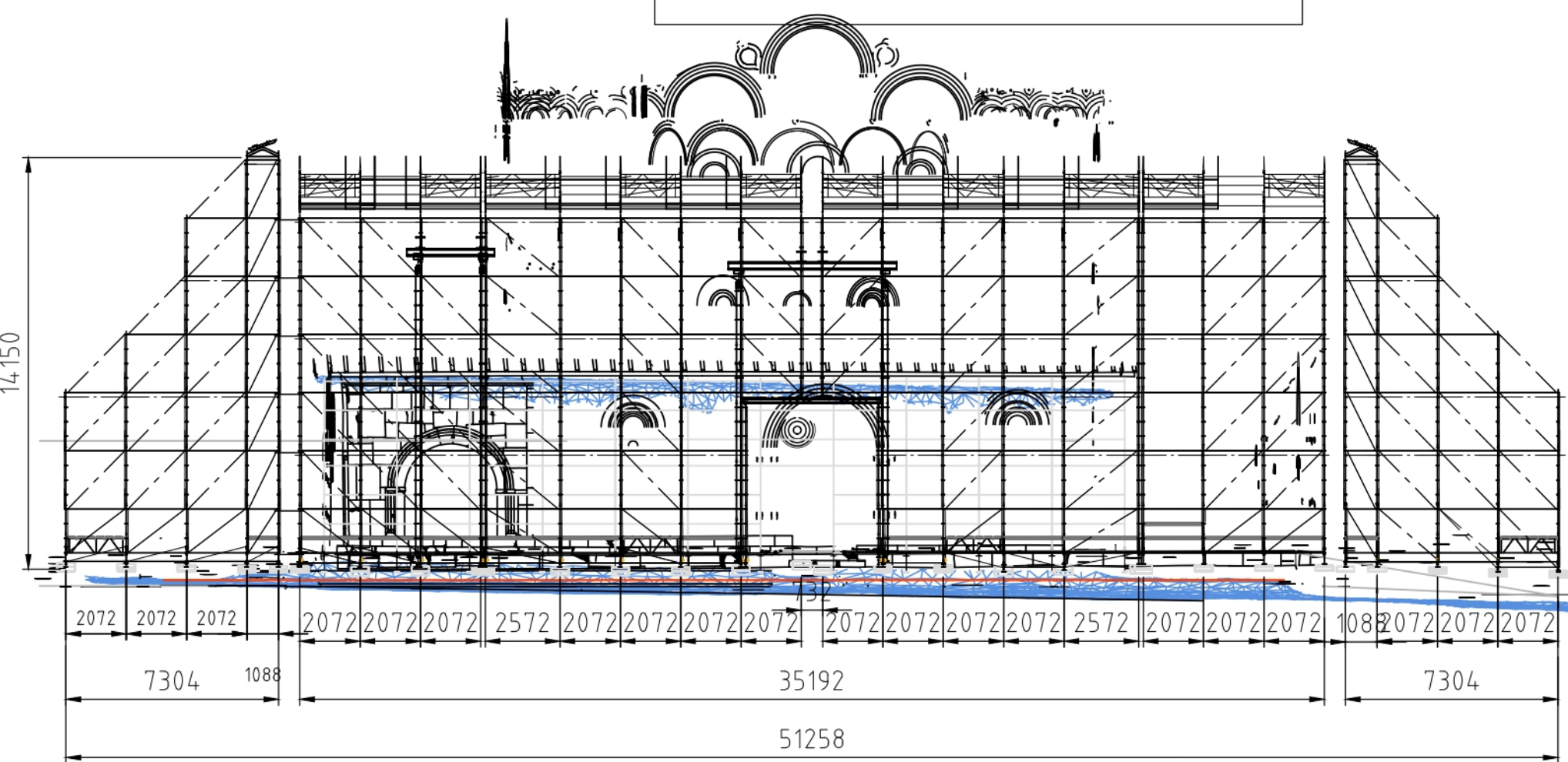
Drawn	07.07.2023	QUESADA	 Make Possibilities. The Scaffolding System.
Checked			
Scale	@A1	1:200	Wilhelm Layher GmbH & Co KG Postfach 11 D-74361 Göggingen-Ebensbach Tel.: (07145) 70-0 / Fax: 70-309 E-Mail: info@layher.com
Project	KD Keder Roof XL Gelati Monastery		

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Drawing No.: 11
AR 44230-0723

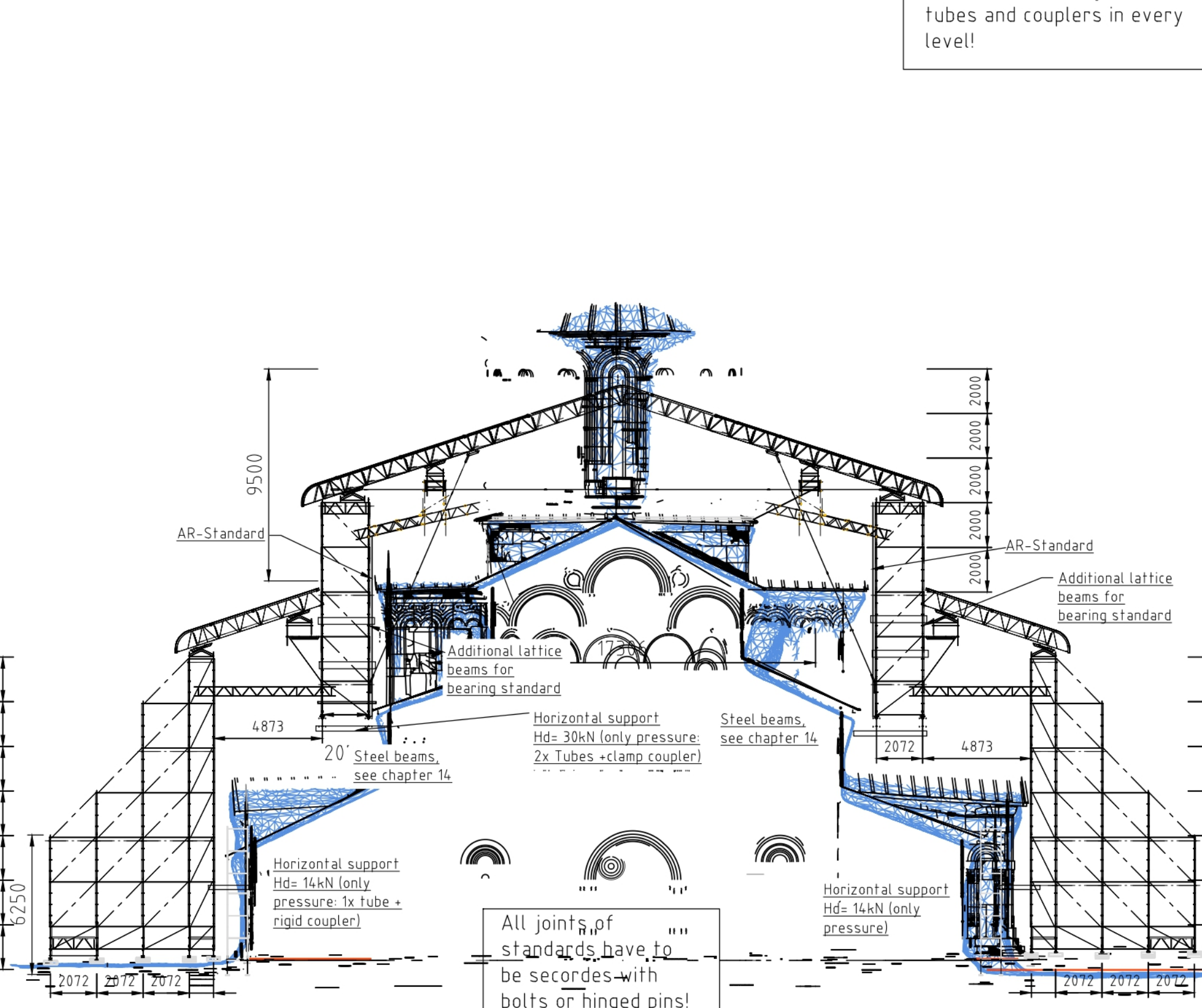
Section A-A
Scale 1:200

Chapter 1:
Summary of loads
1. Dead load according to documents Layher and technical drawings
2. Snow load
 $s_k = 0,25 \text{ kN/m}^2$. The snow on the roof has to be removed, when the height exceeds 10cm
3. Wind load
 $s_k = 0,47 \text{ kN/m}^2$ see DIN EN 1991-1-4 NA.A Kategorie II-III
Temporary construction, checked once a year $ct=0,7$ see DIN EN 1991-1-4 NA.B
4. Earthquake
Grundtype R, $a_{gr}=0,14 \times g$, according to EN 1998



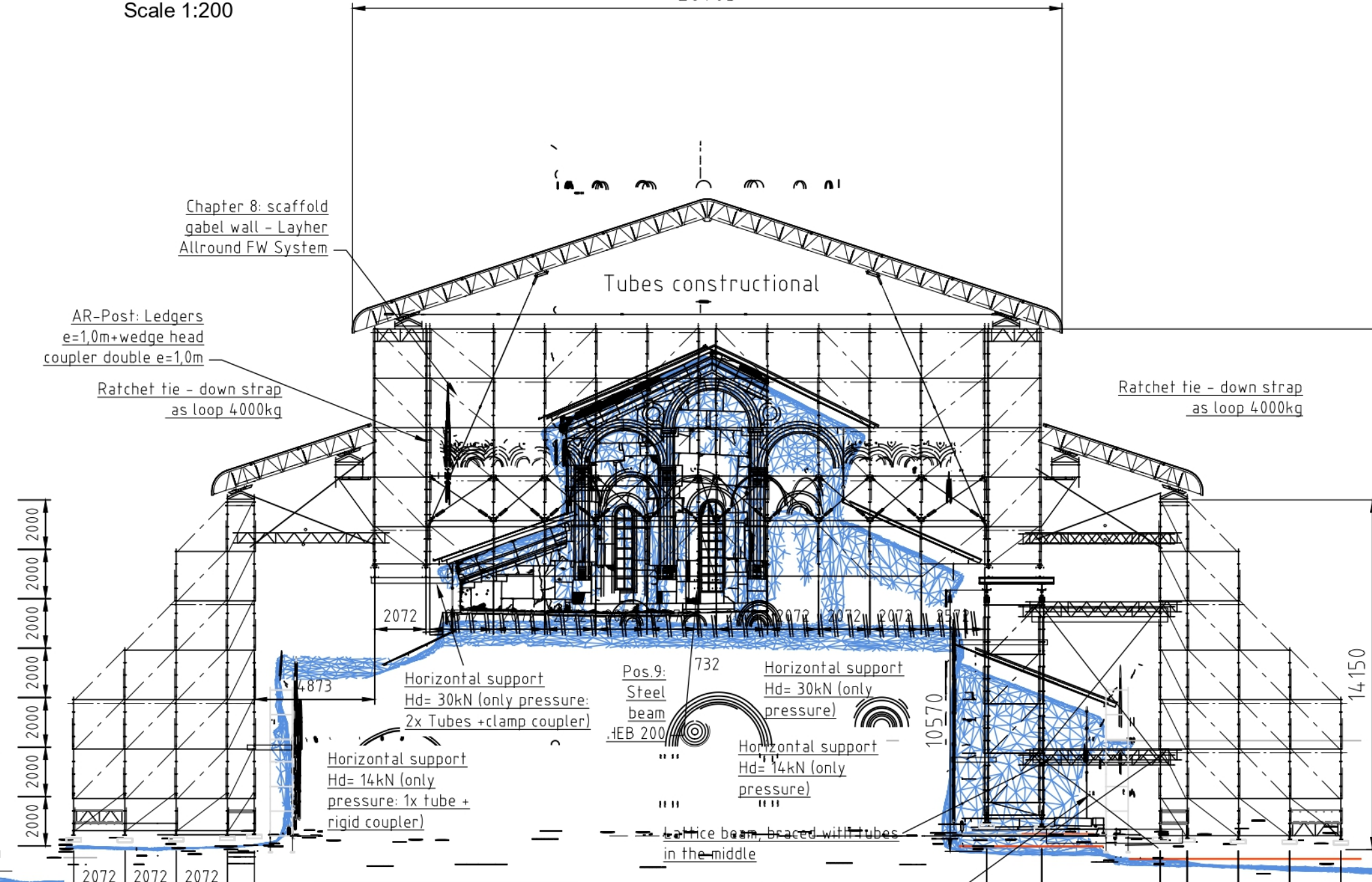
Section D-D
Scale 1:200

The scaffold has to be connected at every corner with tubes and couplers in every level!



All joints of standards have to be secured with bolts or hinged pins!

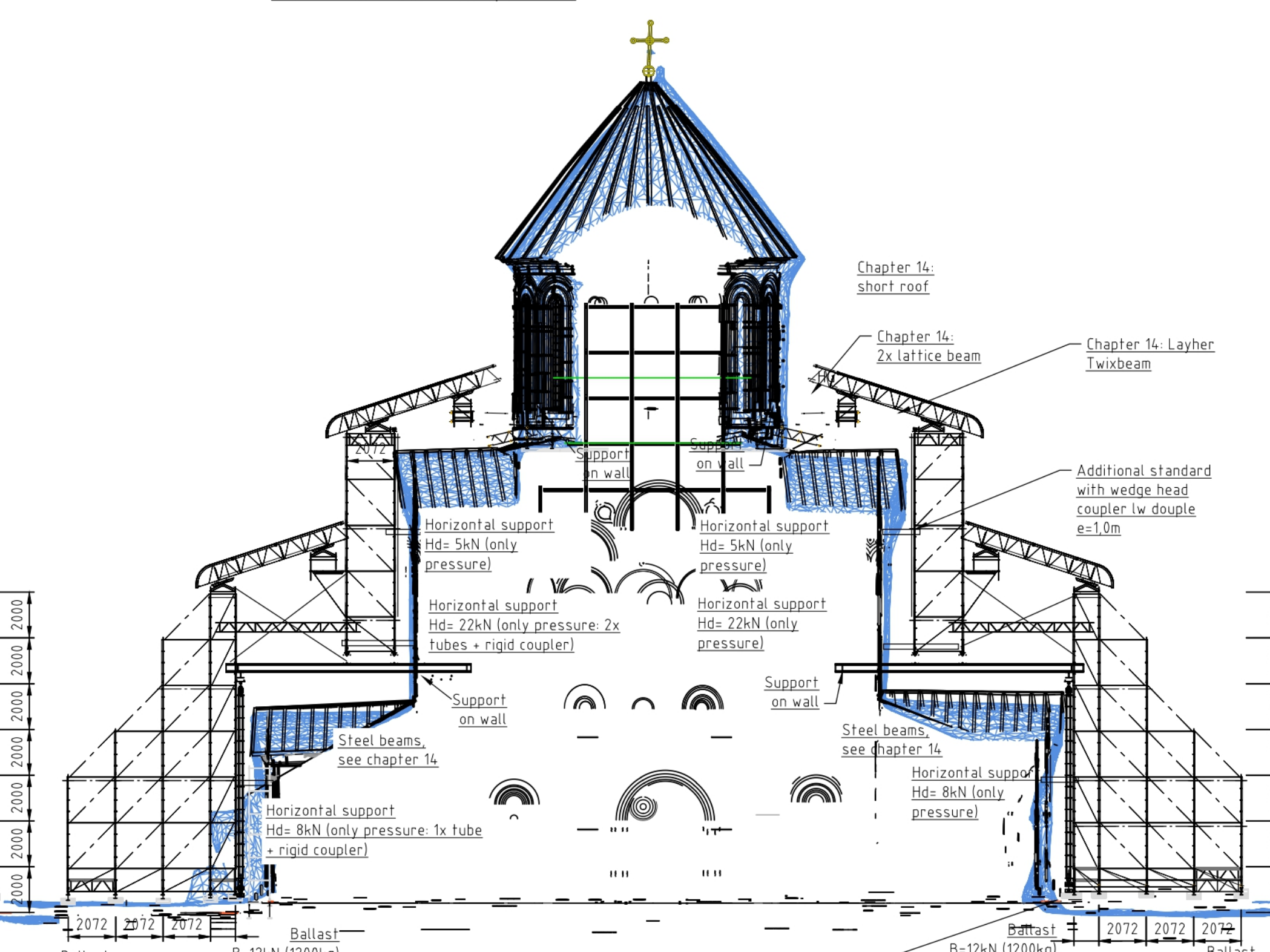
Section B-B
Scale 1:200



All joints of standards have to be secured with bolts or hinged pins!

Section E-E
Scale 1:200

Chapter 4:
Roof dome - barrel shaped roof



All joints of standards have to be secured with bolts or hinged pins!

This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

Modular Scaffolding System
Layher Allround
Approval-Nr.: Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.: Z - 8.22 - 939

The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

R=Tube $\varnothing 48.3 \times 4.0 \text{ mm}$
DR=2xTube $\varnothing 48.3 \times 4.0 \text{ mm}$

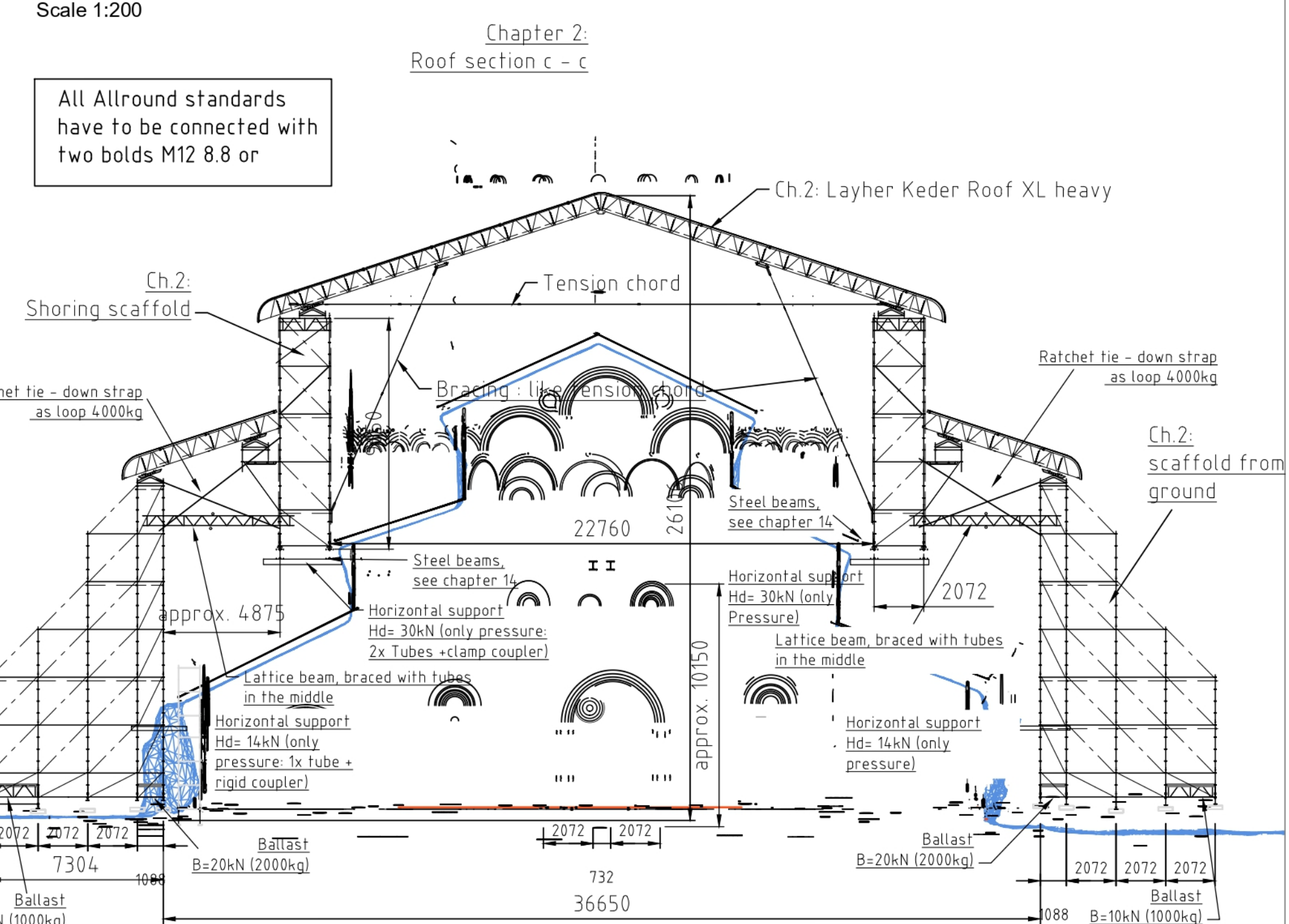
Couplers acc. EN 12811-1

NK=Right Angle Coupler (class B)
Fs,k=15.0 kN

DK=Swivel Coupler (Class A)
Fs,k=10.0 kN

NK+VK=Right Angle Coupler+ additional (class BB)
Fs,k=25.0 kN

Section C-C
Scale 1:200



All Allround standards have to be connected with two bolts M12 8.8 or

Section F-F
Scale 1:200

All joints of standards have to be secured with bolts or hinged pins!

Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

All measures have to be checked!

Structural engineer	Dipl. Ing. Volker Knobloch Andersener, 15 D-14078 Heilbronn, Germany Tel.: 0049 7066/917841 Fax: /917844 mailto:info@knobloch.de		
Project	Monastery of Gethsemani Temporary Roof Without Dome		
Principal	Locum Tenens of Patriarchal Throne of Georgia		
Issue	of VK	drawn by	Project No.
	in VK	15.12.23	23-000
			Drawing: 12
Version 10.05.24			

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Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary.
All details are subject to the valid Terms and conditions available at www.layher.com.

No.	Alteration	Date	Name

Scale: @A1 1:200

Drawn: 07.07.2023 QUESADA

Checked: [Signature]

Project: Monastery of Gethsemani
Temporary Roof Without Dome

Principal: Locum Tenens of Patriarchal Throne of Georgia

Version 10.05.24

Scale: @A1 1:200

KD Keder Roof XL
Gelati Monastery

AR 44230-0723

N.B.
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- Structure to be founded on ground of suitable load-bearing capacity. Load distribution to be provided as necessary. Load transfer in to substructure or ground to be checked as necessary.
- Plan dimensions are centre to centre unless otherwise stated.

- Drainage to be assured on site by suitable means.
- Roof slope to ensure drainage of the roof: min. 15° (Keder roof), min 11° (steel cassette roof).
- Structure to be closed on all sides! Cladding of side and gable walls to be provided on site.
- Cladding with scaffold tarpaulins or keder tarpaulins:
- spacing of tarpaulin connectors $\leq 30 \text{ cm}$
- spacing of rail mounts $\leq 1,0 \text{ m}$
- Gap between wall cladding and roof to be closed on site using suitable measures.
- Keder rails are to be cut to length on site if necessary.
- Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or LW-standards).

All Allround standards have to be connected with two bolts M12 8.8 or

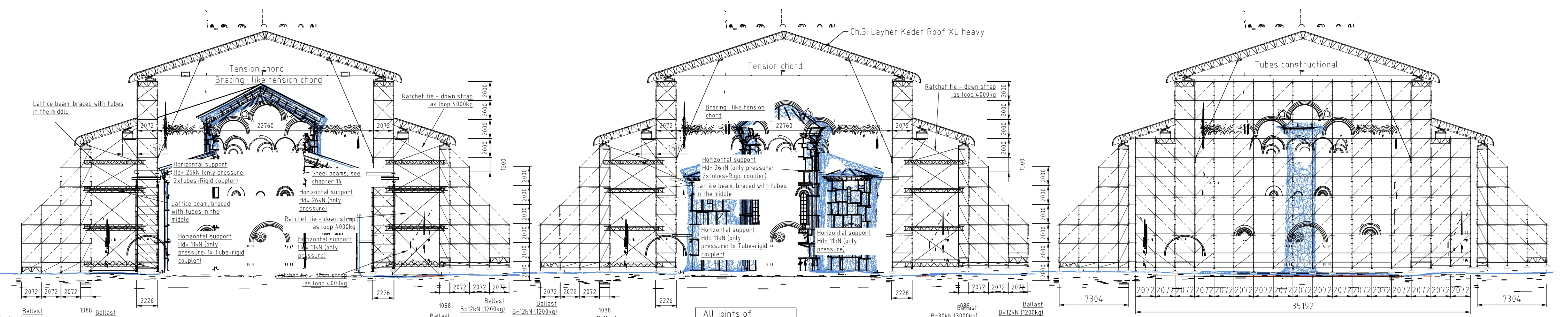
Section G-G
Scale 1:200

Section H-H
Scale 1:200

Section I-I
Scale 1:200

Chapter 3
Roof section h - h

Ch.3: Layher Keder Roof XL heavy



Section J-J
Scale 1:200

All joints of standards have to be secured with bolts or hinged pins!

Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

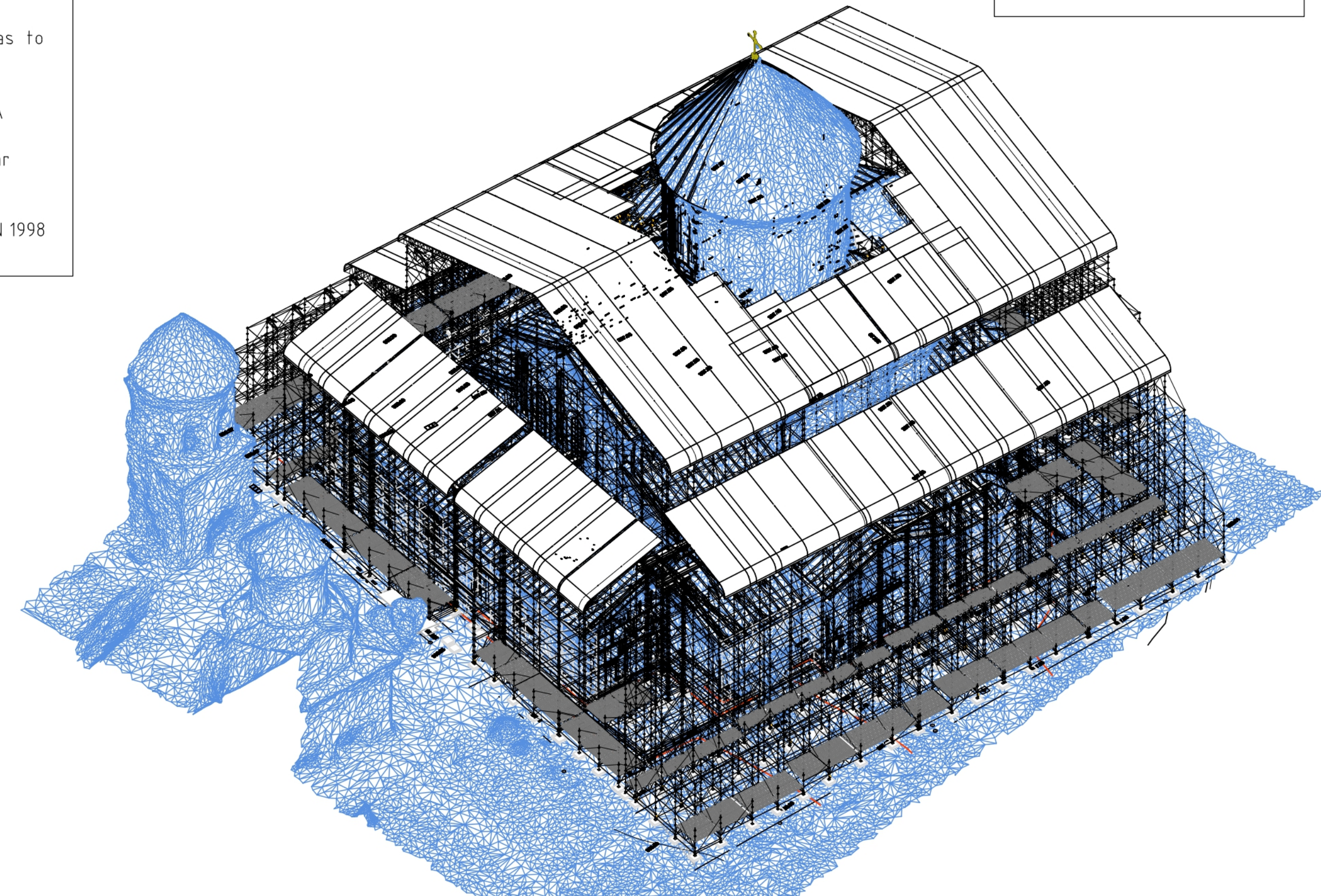
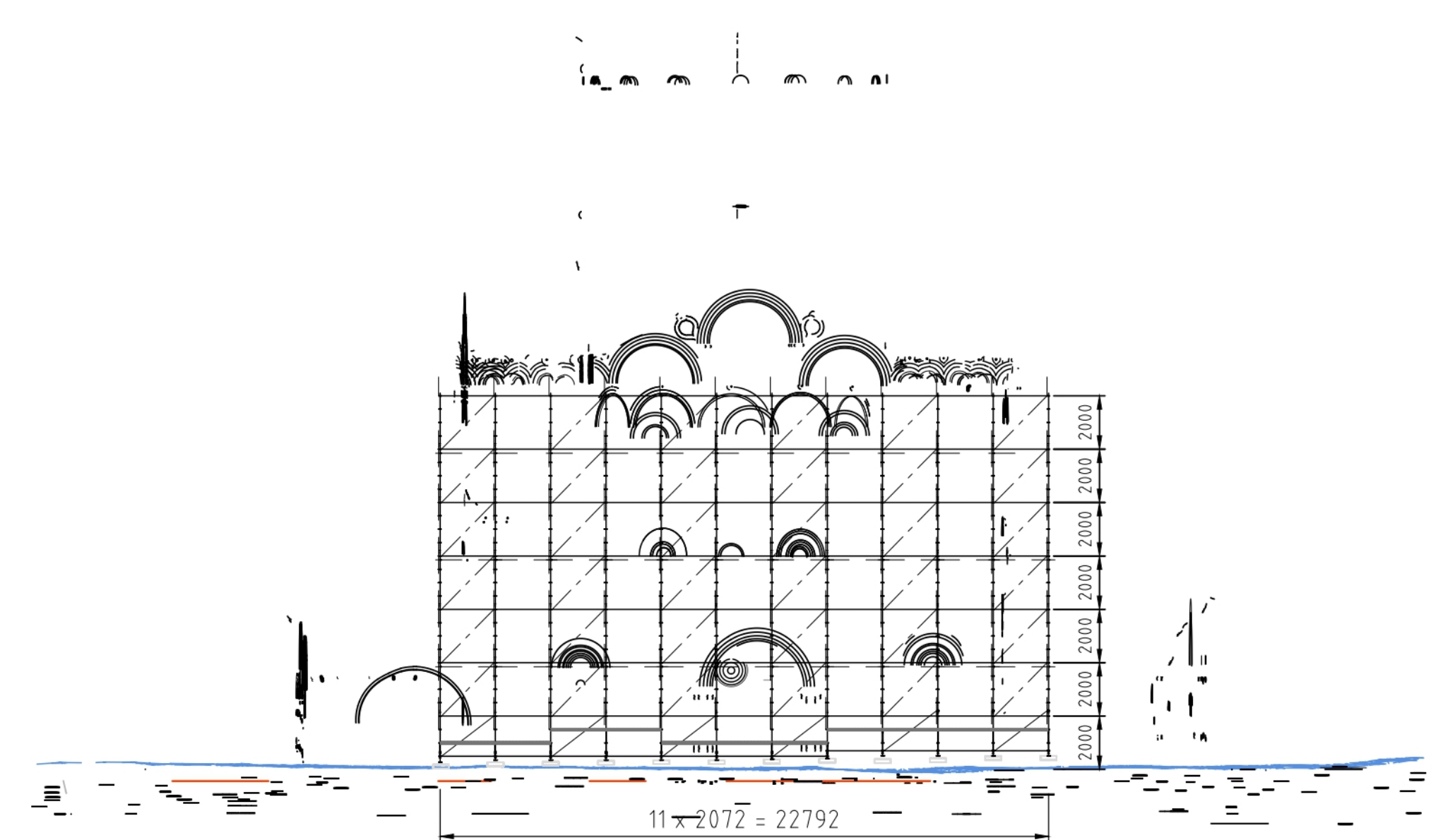
All joints of standards have to be secured with bolts or hinged pins!

Chapter 1:
Summary of loads
1. Dead load according to documents Layher and technical drawings
2. Snow load
 $s_k = 0,25 \text{ kN/m}^2$. The snow and the roof has to be removed, when the height exceeds 10cm
3. Wind load
 $q_b, 0 = 0,47 \text{ kN/m}^2$ see DIN EN 1991-1-4 NA.A Kategorie II-III
Temporary construction, checked once a year
 $ct = 0,7$ see DIN EN 1991-1-4 NA.B
4. Earthquake
Grundtype R, $a_{gr} = 0,14 \times g$, according to EN 1998

Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

The scaffold has to be connected at every corner with tubes and couplers in every level!

Ballast: siehe sectional views and ground view!



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- Plan dimensions are centre to centre unless otherwise stated.

- Drainage to be assured on site by suitable means.
- Roof slope to ensure drainage of the roof: min. 15° (Keder roof), min 11° (steel cassette roof).
- Structure to be closed on all sides! Cladding of side and gable walls to be provided on site.
- Cladding with scaffold tarpaulins or keder tarpaulins:
- spacing of tarpaulin connectors $\leq 30 \text{ cm}$
- spacing of rail mounts $\leq 1,0 \text{ m}$
- Gap between wall cladding and roof to be closed on site using suitable measures.
- Keder rails are to be cut to length on site if necessary.
- Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or LW-standards).

This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

Modular Scaffolding System
Layher Allround
Approval-Nr.: Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.: Z - 8.22 - 939

The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

R=Tube $\varnothing 48.3 \times 4,0 \text{ mm}$
DR=2xTube $\varnothing 48.3 \times 4,0 \text{ mm}$

Couplers acc. EN 12811-1

NK=Right Angle Coupler (class B)
 $F_s, k = 15,0 \text{ kN}$

DK=Swivel Coupler (Class A)
 $F_s, k = 10,0 \text{ kN}$

NK+VK=Right Angle Coupler+ additional (class BB)

All measures have to be checked!

Structural engineer Dipl. Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7066-9179841 Fax.: /9179849 sklln@eng-knobloch.de	Project: Monastery of Gash Temporary Roof Without dome	Principal: Locum Tenens of Patriarchal Throne of Georgia
Scale: 1:15.12.23	Drawn by: VK	Project No.: 22-090
Version 10.05.24	Drawn by: VK	Drawn: 13

This drawing is valid in conjunction with the use of original Layher material only. Detailed information on components see parts list.
Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary.
All details are subject to the valid Terms and conditions available at www.layher.com.

No.	Alteration	Date	Name

Drawn	07.07.2023	QUESADA
Checked		
Scale	@A1	1:200

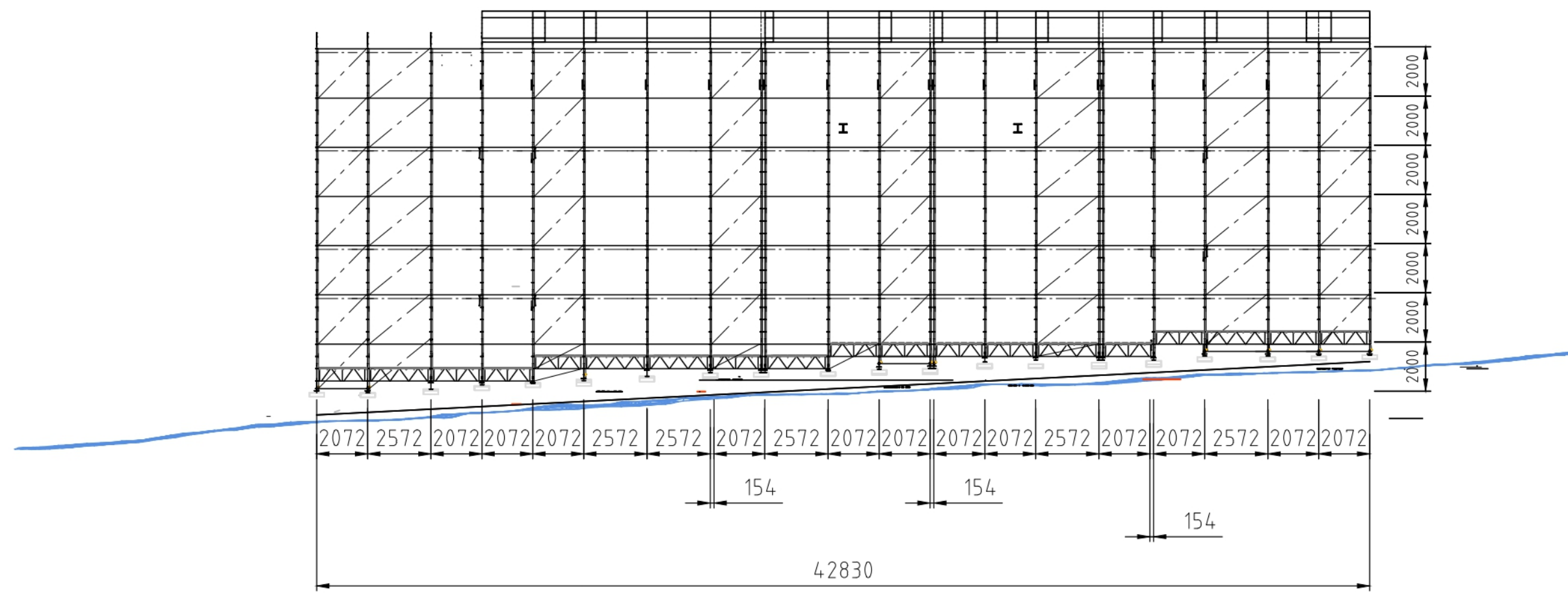
Layher
Have Possibilities. The Scaffolding System.
Wilhelm Layher GmbH & Co KG
Postfach 55
D-74361 Güglingen-Ebensbach
Tel.: (07143) 70-0 / Fax: 70-309
E-Mail: info@layher.com

Version 10.05.24

Drawing No.: 13
AR 44230-0723

KD Keder Roof XL
Gelati Monastery

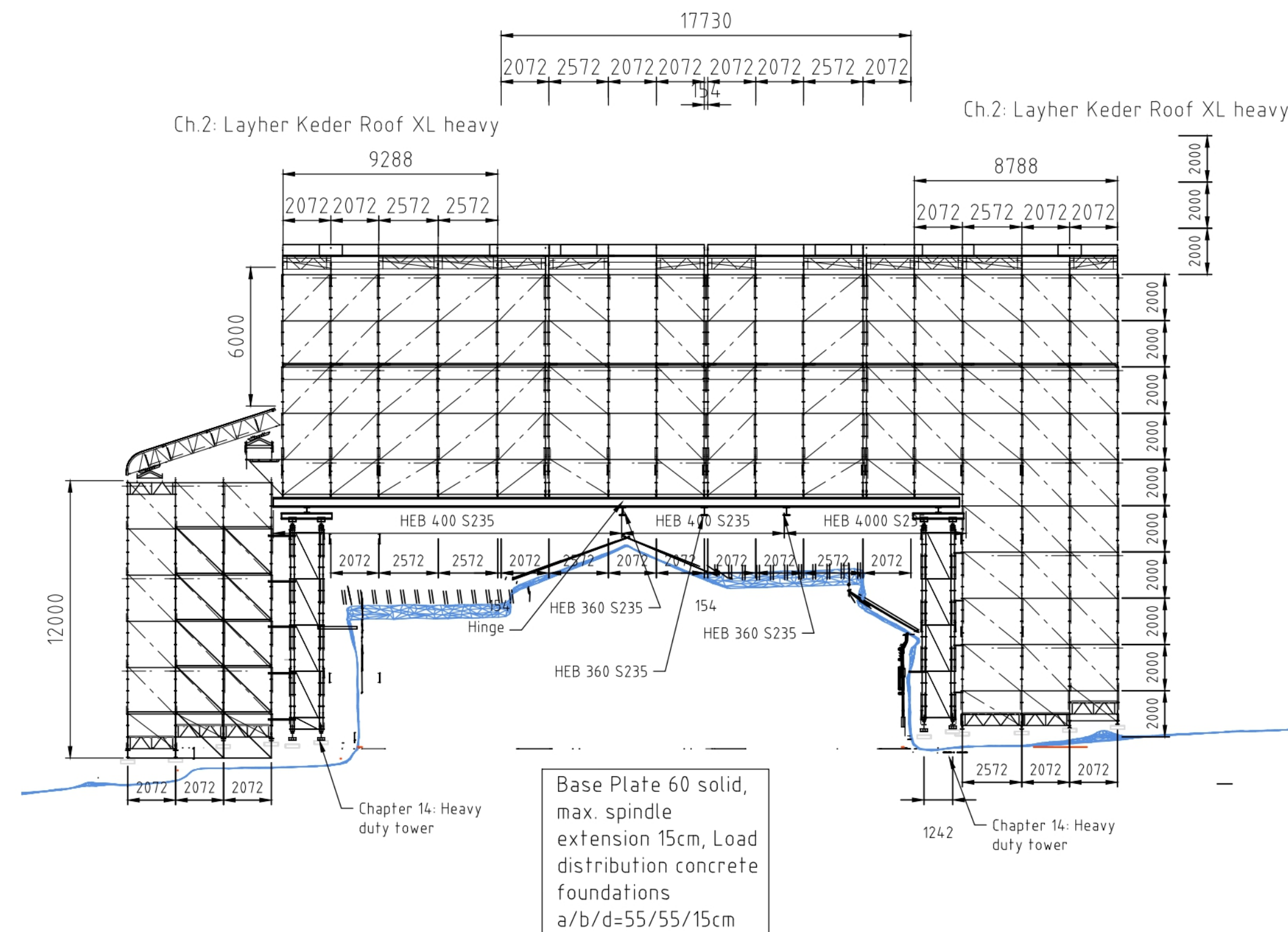
Section 1-1
Scale 1:200



Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

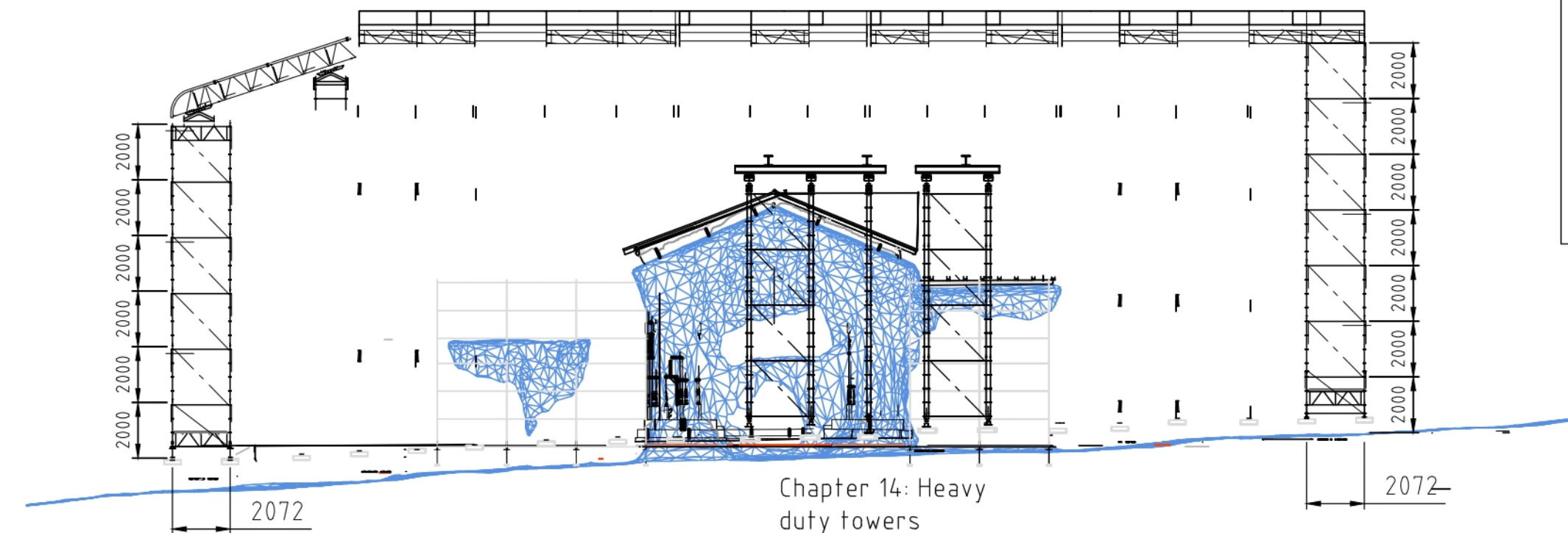
Section 3-3
Scale 1:200

Layher Keder Roof XL standard



Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

Section 2-2
Scale 1:200



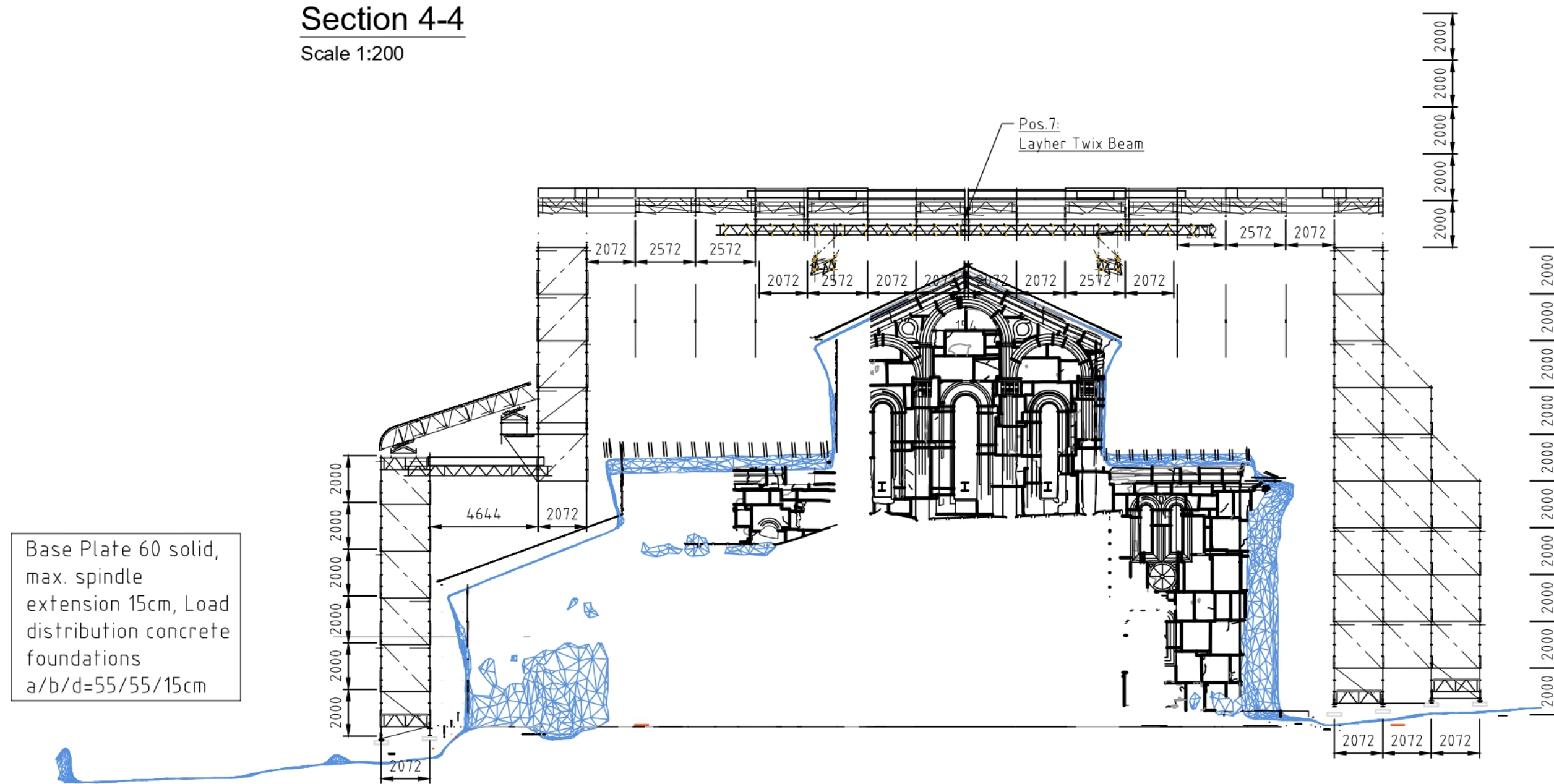
All Allround standards have to be connected with two bolts M12 8.8 or

The scaffold has to be connected at every corner with tubes and couplers in every level!

Ballast: siehe sectional views and ground view!

Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

Section 4-4
Scale 1:200



Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

Chapter 1:
Summary of loads
1. Dead load according to documents Layher and technical drawings
2. Snow load
 $s_k = 0,25 \text{ kN/m}^2$. The snow on the roof has to be removed, when the height exceeds 10cm
3. Wind load
 $q_b, \alpha = 0,47 \text{ kN/m}^2$ see DIN EN 1991-1-4 NA A Kategorie II-III
Temporary construction, checked once a year
 $ct = 0,7$ see DIN EN 1991-1-4 NA B
4. Earthquake
Grundtype R, $a, g_r = 0,14 \times g$, according to EN 1998

This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

Modular Scaffolding System
Layher Allround
Approval-Nr.: Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.: Z - 8.22 - 939

N.B.:
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- Plan dimensions are centre to centre unless otherwise stated.

- Chapter 12: Steel Beams**
- Drainage to be assured on site by suitable means.
 - Roof slope to ensure drainage of the roof: min. 15° (Keder roof), min 11° (steel cassette roof).
 - Structure to be closed on all sides! Cladding of side and gable walls to be provided on site.
 - Cladding with scaffold tarpaulins or keder tarpaulins:
 - spacing of tarpaulin connectors $\leq 30 \text{ cm}$
 - spacing of rail mounts $\leq 1,0 \text{ m}$
 - Gap between wall cladding and roof to be closed on site using suitable measures.
 - Keder rails are to be cut to length on site if necessary.
 - Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or LW-standards).

The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

R=Tube $\varnothing 48.3 \times 4.0 \text{ mm}$
DR=2xTube $\varnothing 48.3 \times 4.0 \text{ mm}$

Couplers acc. EN 12811-1

NK=Right Angle Coupler (class B)
 $F_s, k = 15.0 \text{ kN}$

DK=Swivel Coupler (Class A)
 $F_s, k = 10.0 \text{ kN}$

NK+VK=Right Angle Coupler+additional (class BB)

All measures have to be checked!

Structural engineer Dipl.-Ing. Volker Knobloch Andersensstr. 16 D-74078 Heilbronn, Germany Tel. 0049 7066 9179841 Fax. /9179849 stak@eng-knobloch.de	
Project	Monastery of Gelati Temporary Roof Without dome
Principal	Locum Tenens of Patriarcal Throne of Georgia
Scale	1:200
Drawn	23-090
Checked	15.12.23
Version	10.05.24

This drawing is valid in conjunction with the use of original Layher material only. Detailed information on components see parts list.
Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary.
All details are subject to the valid Terms and conditions available at www.layher.com.

No.	Alteration	Date	Name

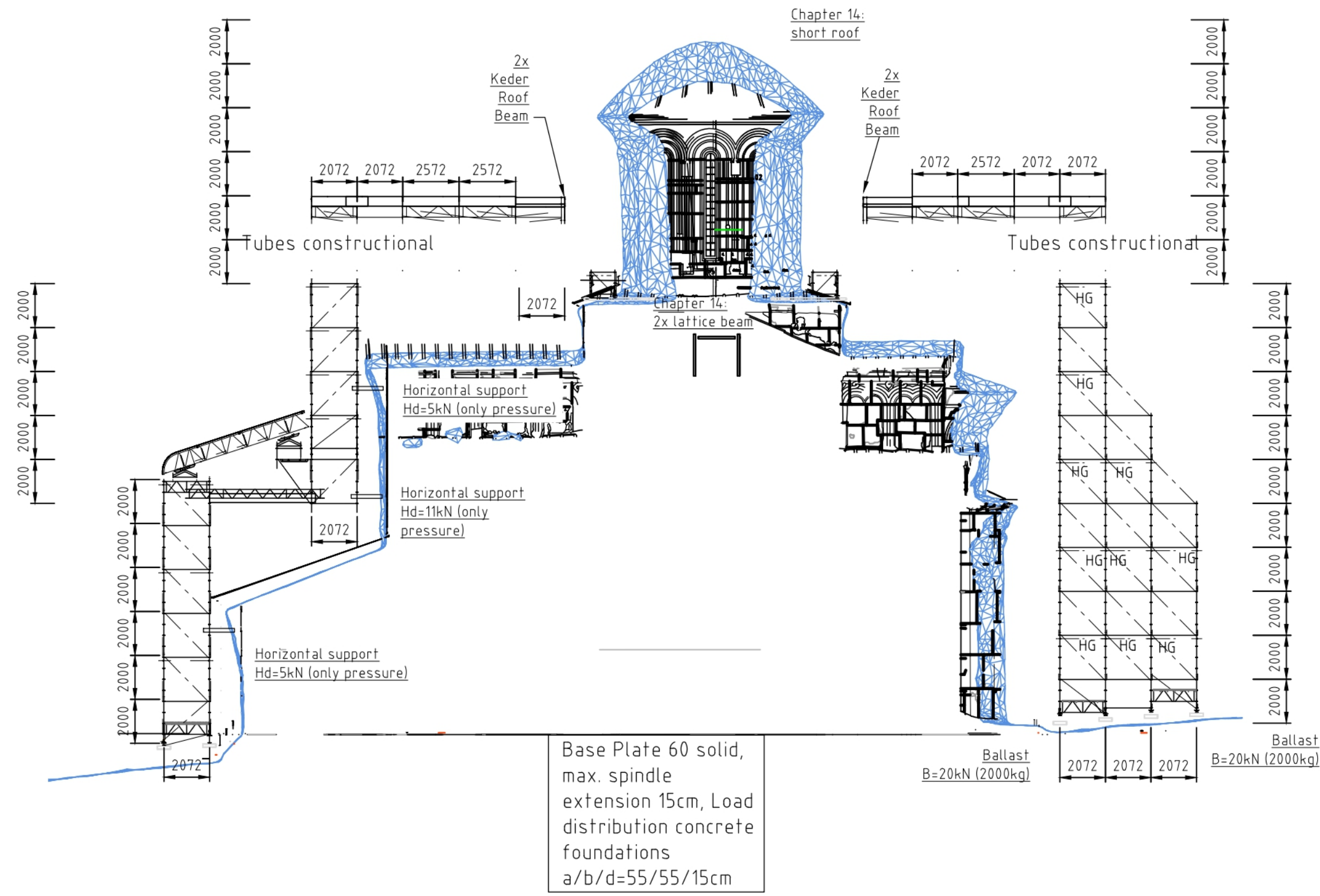
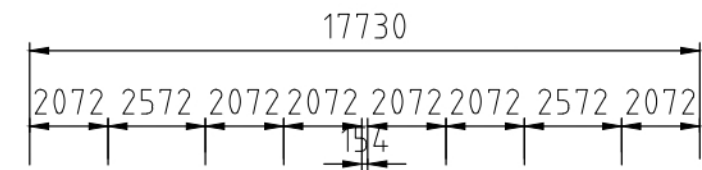
Drawn	07.07.2023	QUESADA
Checked		

Scale: @A1 / 1:200

KD Keder Roof XL
Gelati Monastery

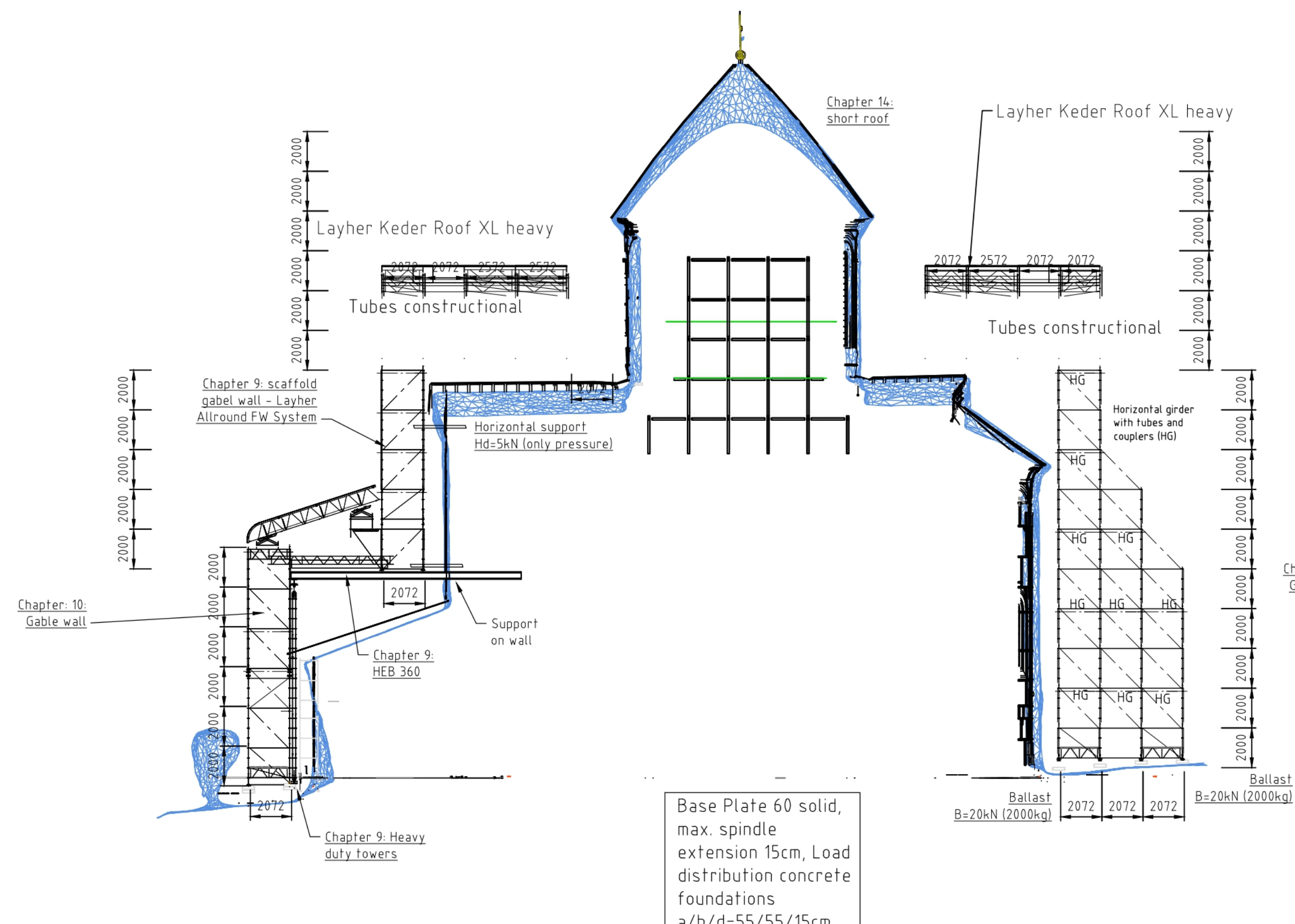
Drawing No.: 14
AR 44230-0723

Section 5-5
Scale 1:200



All joints of standards have to be secured with bolts or hinged pins!

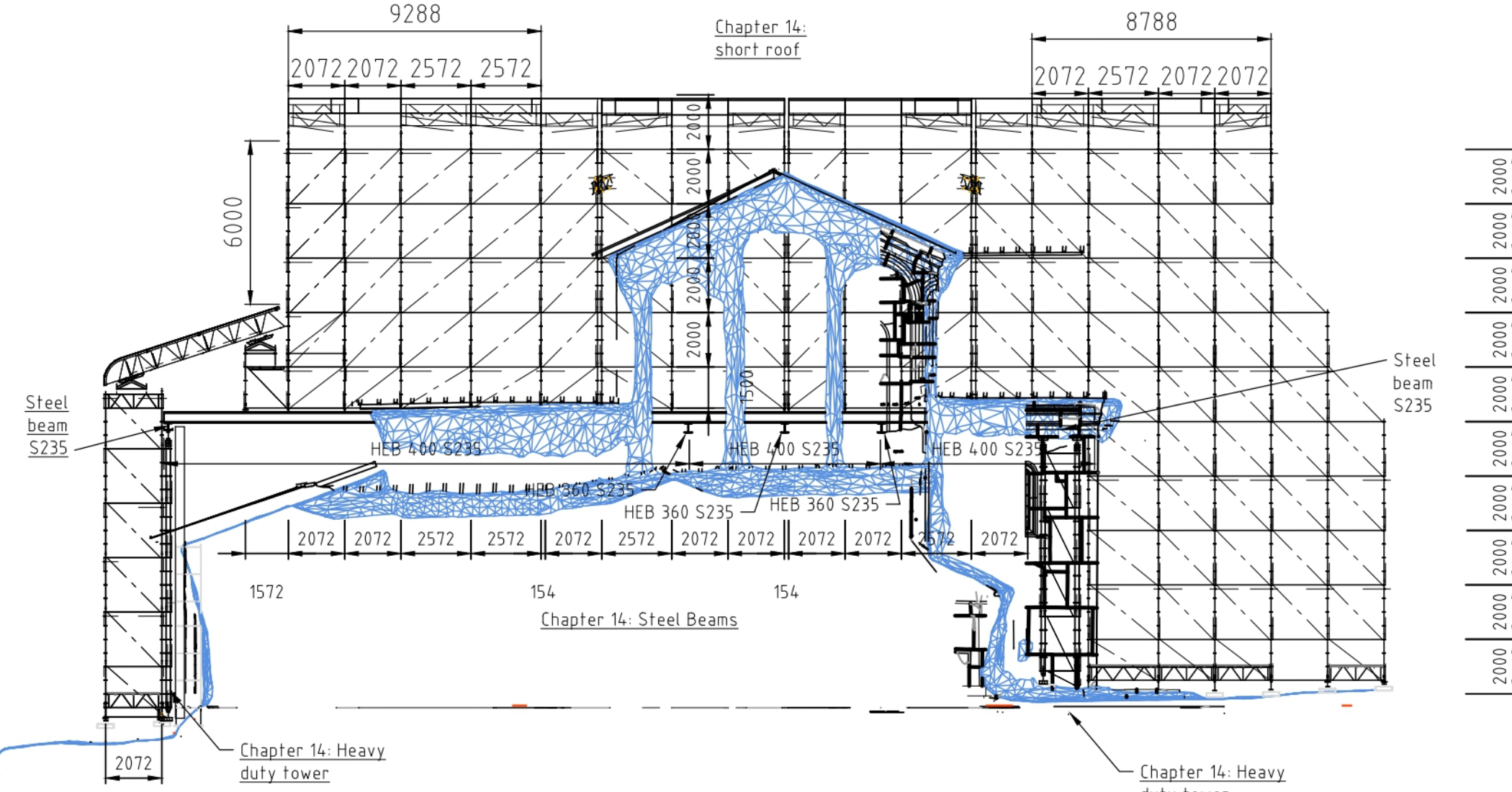
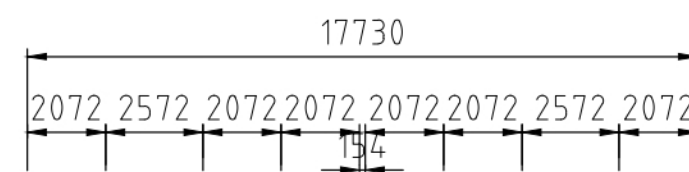
Section 5-5
Scale 1:200



The scaffold has to be connected at every corner with tubes and couplers in every level!

Ballast: siehe sectional views and ground view!

Section 7-7
Scale 1:200



Base Plate 60 solid, max. spindle extension 15cm, Load distribution concrete foundations a/b/d=55/55/15cm

Chapter 1:
Summary of loads
1. Dead load according to documents Layher and technical drawings
2. Snow load
 $s_k = 0,25 \text{ kN/m}^2$. The snow on the roof has to be removed, when the height exceeds 10cm
3. Wind load
 $q_{b,0} = 0,47 \text{ kN/m}^2$ see DIN EN 1991-1-4 NA.A Kategorie II-III
Temporary construction, checked once a year
 $c_t = 0,7$ see DIN EN 1991-1-4 NA.B
4. Earthquake
Grundtype R, $a_{gr} = 0,14 x_g$, according to EN 1998

This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

Modular Scaffolding System
Layher Allround
Approval-Nr.: Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.: Z - 8.22 - 939

The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

R=Tube $\varnothing 48.3 \times 4.0 \text{ mm}$
DR=2xTube $\varnothing 48.3 \times 4.0 \text{ mm}$

Couplers acc. EN 12811-1

NK=Right Angle Coupler (class B)
 $F_s, k = 15.0 \text{ kN}$

DK=Swivel Coupler (Class A)
 $F_s, k = 10.0 \text{ kN}$

NK+VK=Right Angle Coupler+ additional (class BB)

All measures have to be checked!

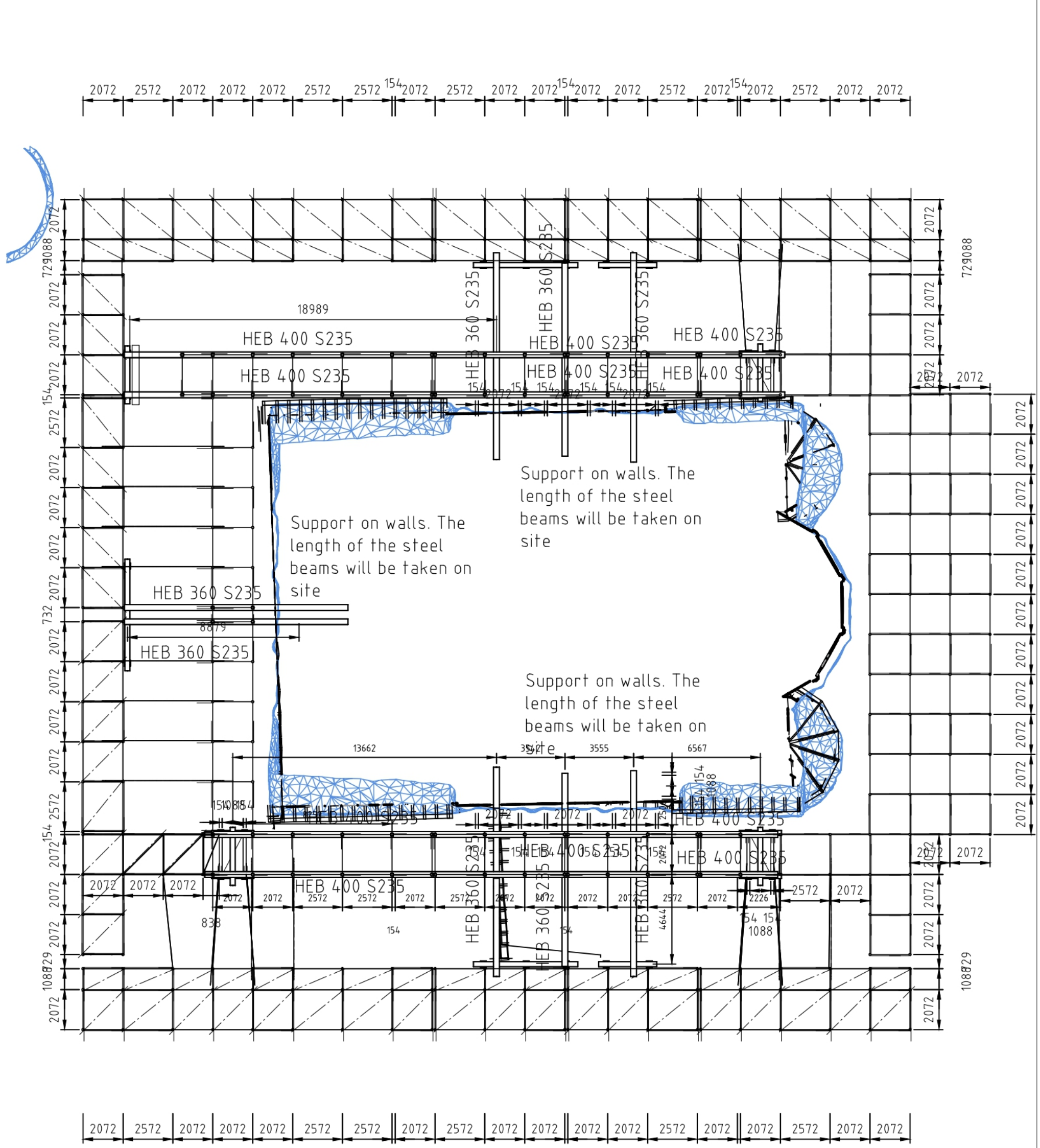
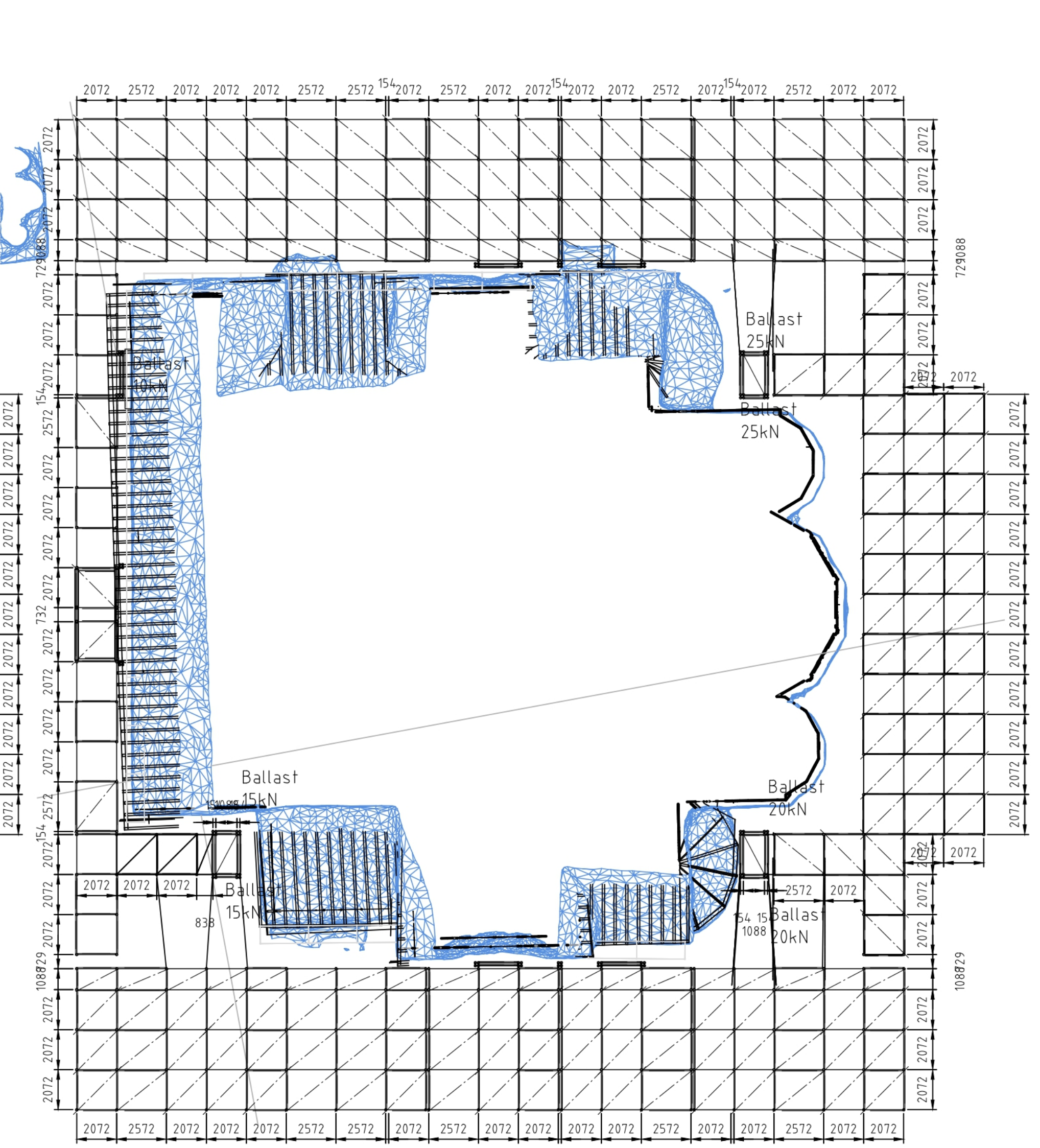
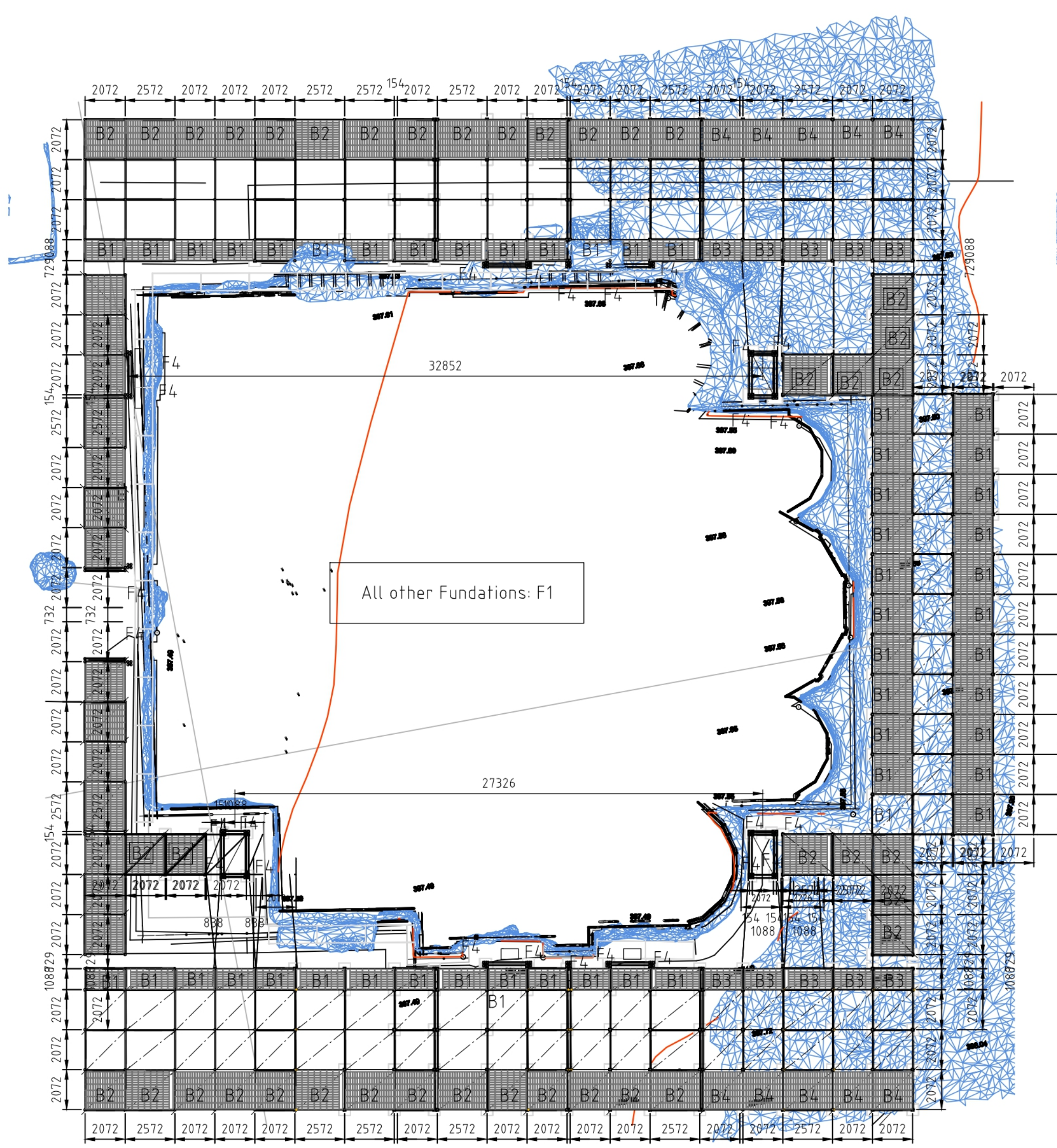
Structural engineer	Dipl.-Ing. Volker Kriebeloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7141 9179841 Fax.: /9179849 mailto:info@kriebeloch.de		
Project	Monastery of Geati Temporary Roof Without dome		
Principal	Locum Tenens of Patriarchal Throne of Georgia		
Drawn	dr. VK	Drawn on	Project 23-090
Checked	ch. VK	15.12.23	Drawing 15
Version: 10.05.24			

This drawing is valid in conjunction with the use of original Layher material only. Detailed information on components see parts list. Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary. All details are subject to the valid Terms and conditions available at www.layher.com .			
No.	Alteration	Date	Name
Drawn	07.07.2023	QUESADA	
Checked			
Scale	@A1	1:200	
 Wilhelm Layher GmbH & Co KG Postfach 55 D-74361 Güglingen-Ebensbach Tel.: (07145) 70-0 / Fax: 70-309 E-Mail: info@layher.com			The reproduction, distribution and utilization of this document as well as the communication of its contents to others without express authorization is prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design. Refer to protection notice ISO 9016.
KD Keder Roof XL Gelati Monastery			Drawing No.: 15 AR 44230-0723

All Allround standards have to be connected with two bolts M12 8.8 or

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- Structure to be founded on ground of suitable load-bearing capacity. Load distribution to be provided as necessary. Load transfer in to substructure or ground to be checked as necessary.
- Plan dimensions are centre to centre unless otherwise stated.

- Drainage to be assured on site by suitable means.
- Roof slope to ensure drainage of the roof: min. 15° (Keder roof), min 11° (Steel cassette roof).
- Structure to be closed on all sides! Cladding of side and gable walls to be provided on site.
- Cladding with scaffold tarpaulins or keder tarpaulins:
- spacing of tarpaulin connectors $\leq 30 \text{ cm}$
- spacing of rail mounts $\leq 1,0 \text{ m}$
- Gap between wall cladding and roof to be closed on site using suitable measures.
- Keder rails are to be cut to length on site if necessary.
- Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or LW-standards).



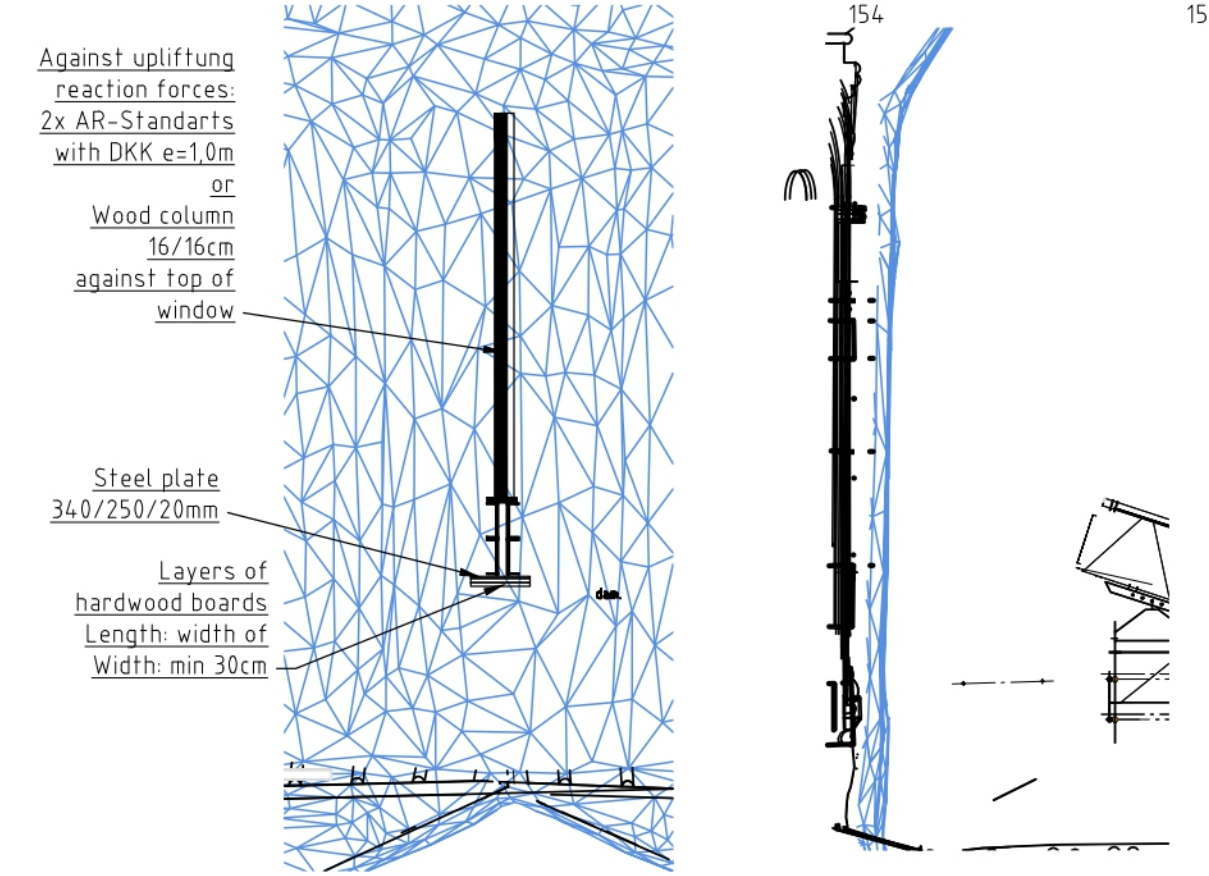
- Ballast B1= 20kN (2000kg)
- Ballast B2 = 10kN (1000kg)
- Ballast B3 = 30kN (3000kg)
- Ballast B4 = 12kN (1200kg)

F2 F2 F3 F4

Foundation F4
a/b/d=75/75/15cm
Concrete C25/30 XC4 XF1
Concrete Cover cnom=3,5cm
reinforcement
d=10mm e=150mm crosswise

Foundation F1
a/b/d=55/55/15cm
Concrete C25/30 XC4 XF1
Concrete Cover cnom=3,5cm
reinforcement
d=10mm e=150mm crosswise

A soil pressure of $\sigma_{permisssible}=150kN/m^2$ has to be provided on site. Also there should be gravel under the concrete foundations to prevent freezing of water in the soil in the winter time.

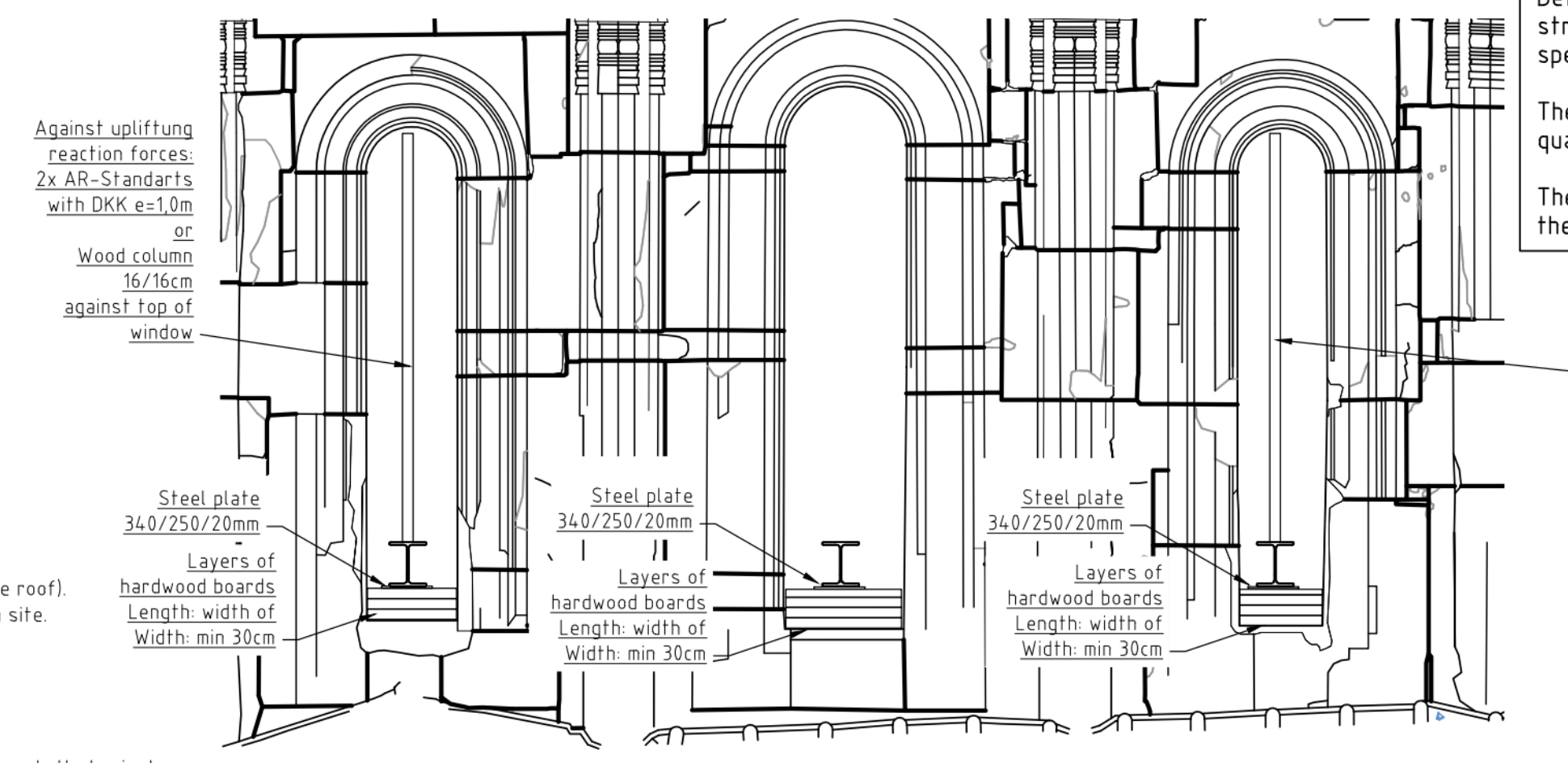
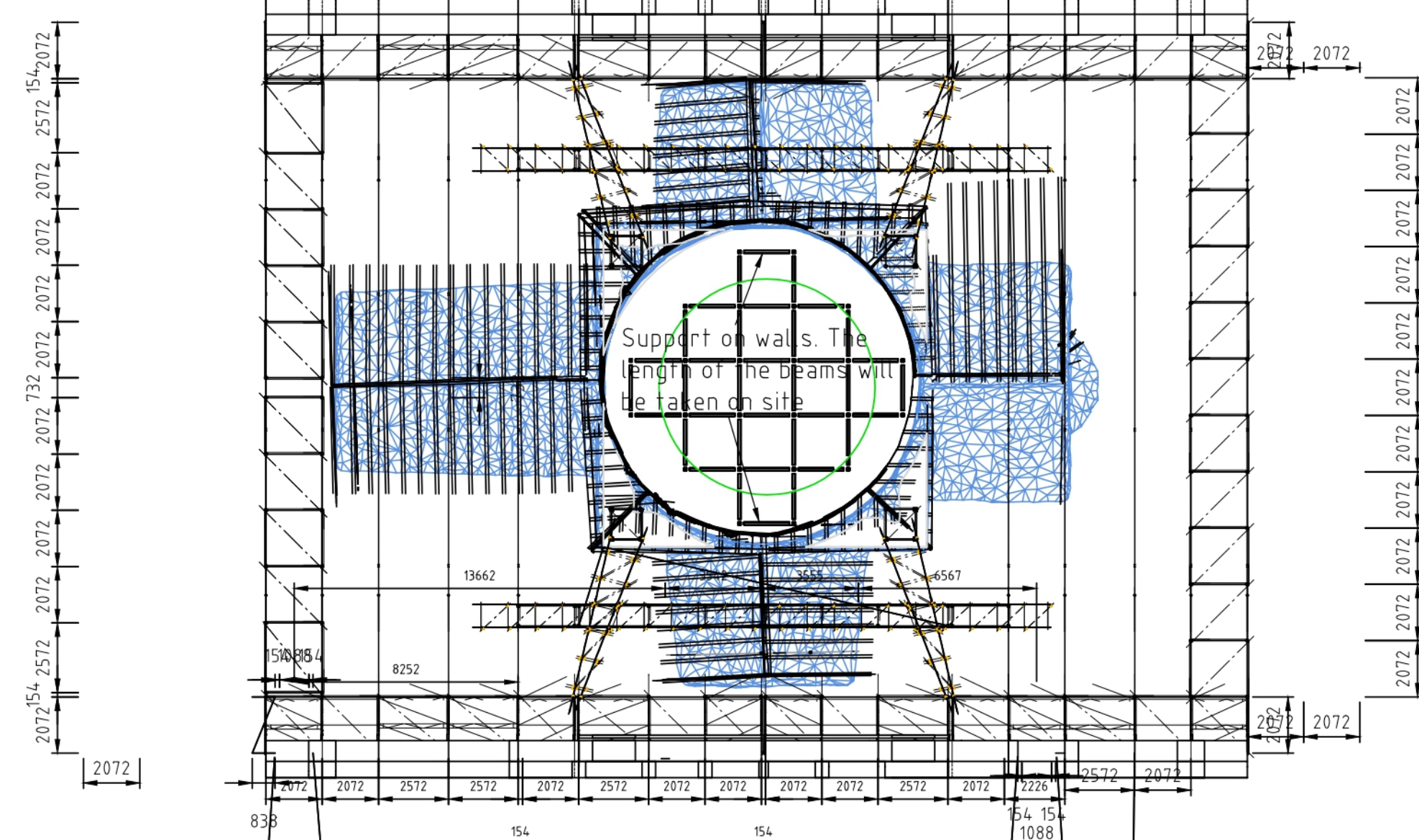


Modular Scaffolding System
Layher Allround
Approval-Nr.:
Z - 8.22 - 64

Layher Allround Lightweight
Approval-Nr.:
Z - 8.22 - 939

This plan is part of the structural calculation. For details of all the technical components see technical documentation Layher.

All measures have to be checked!



The scaffolding has to be erected according to the approval and the instructions for assembly and use.

Before using the scaffolding the whole structure has to be checked by a safety specialist!

The whole has to be checked once a year by qualified scaffolder.

The load bearing capacity of the building and the ground has to be checked on site.

- R=Tube Ø 48.3*4,0 mm
DR=2xTube Ø 48.3*4,0 mm
- Couplers acc.EN 12811-1
- NK=Right Angle Coupler (class B)
Fs,k=15,0 kN
- DK=Swivel Coupler (Class A)
Fs,k=10,0 kN
- NK+VK=Right Angle Coupler+ additional (class BB)

Structural engineer: Dipl.-Ing. Volker Knobloch Andersensstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7145 9179841 Fax.: 9179849 staerkung.knobloch.de	
Project: Monastery of Gelati Temporary Roof Weisshof	
Principal: Locum Tenens of Patriarcal Theose of Georgia	
Scale:	Sheet: 23/090
in: VK	drawn: 15.12.23
in: VK	Drawing: 16
Version 10.05.24	

This drawing is valid in conjunction with the use of original Layher material only. Detailed information on components see parts list.	
Dimensions and geometry to be verified on site. Extra Material to be provided on site as necessary.	
All details are subject to the valid Terms and conditions available at www.layher.com .	
No.	Alteration
Date	Name
Wilhelm Layher GmbH & Co KG Postfach 54 D-74361 Güglingen-Ebensbach Tel.: (07145) 70-0 / Fax: 70-399 E-Mail: info@layher.com	
Drawn	07.07.2023 QUESADA
Checked	
Scale	@A1 1:200
KD Keder Roof XL Gelati Monastery	
Drawing No.	16 AR 44230-0723

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