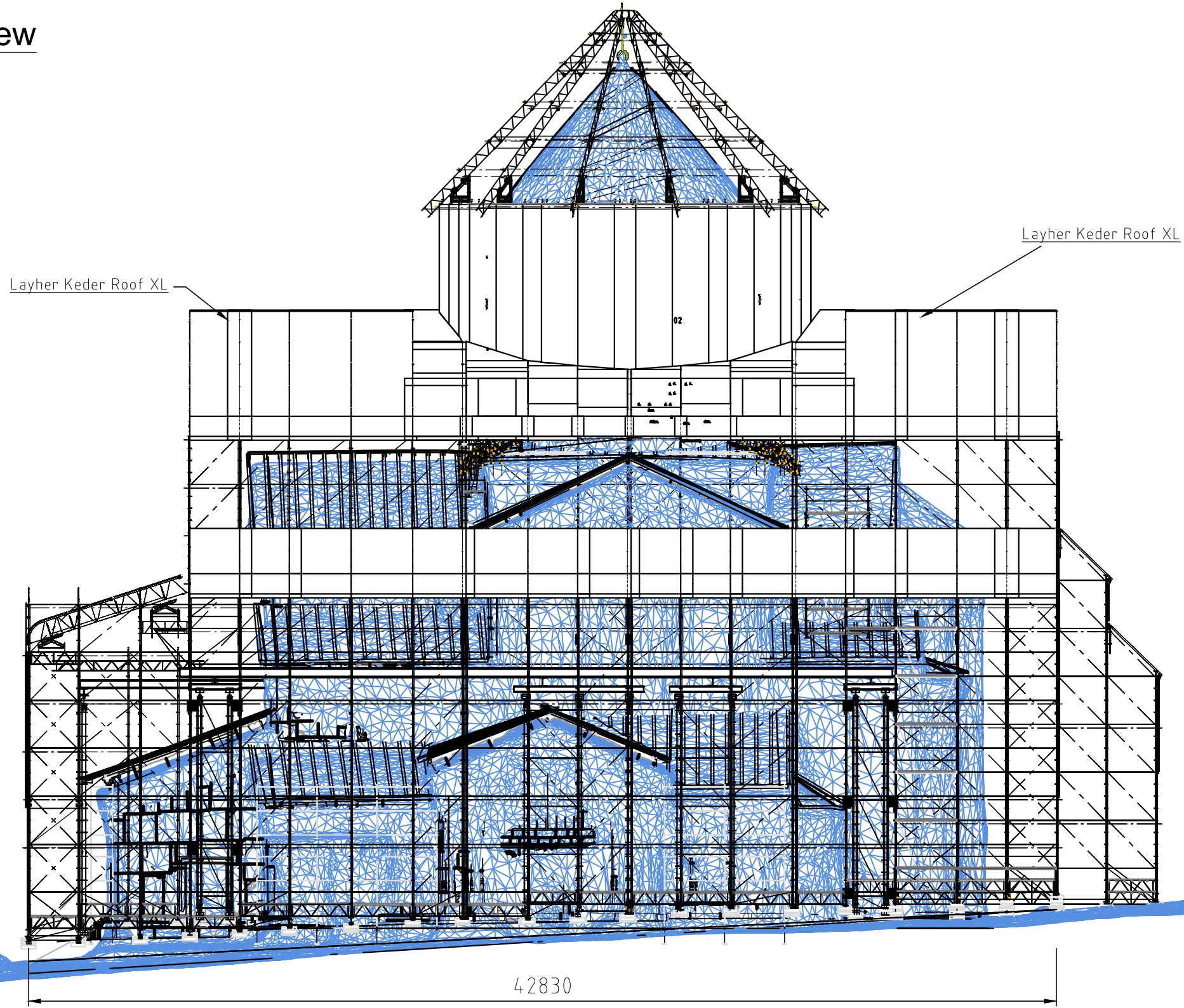


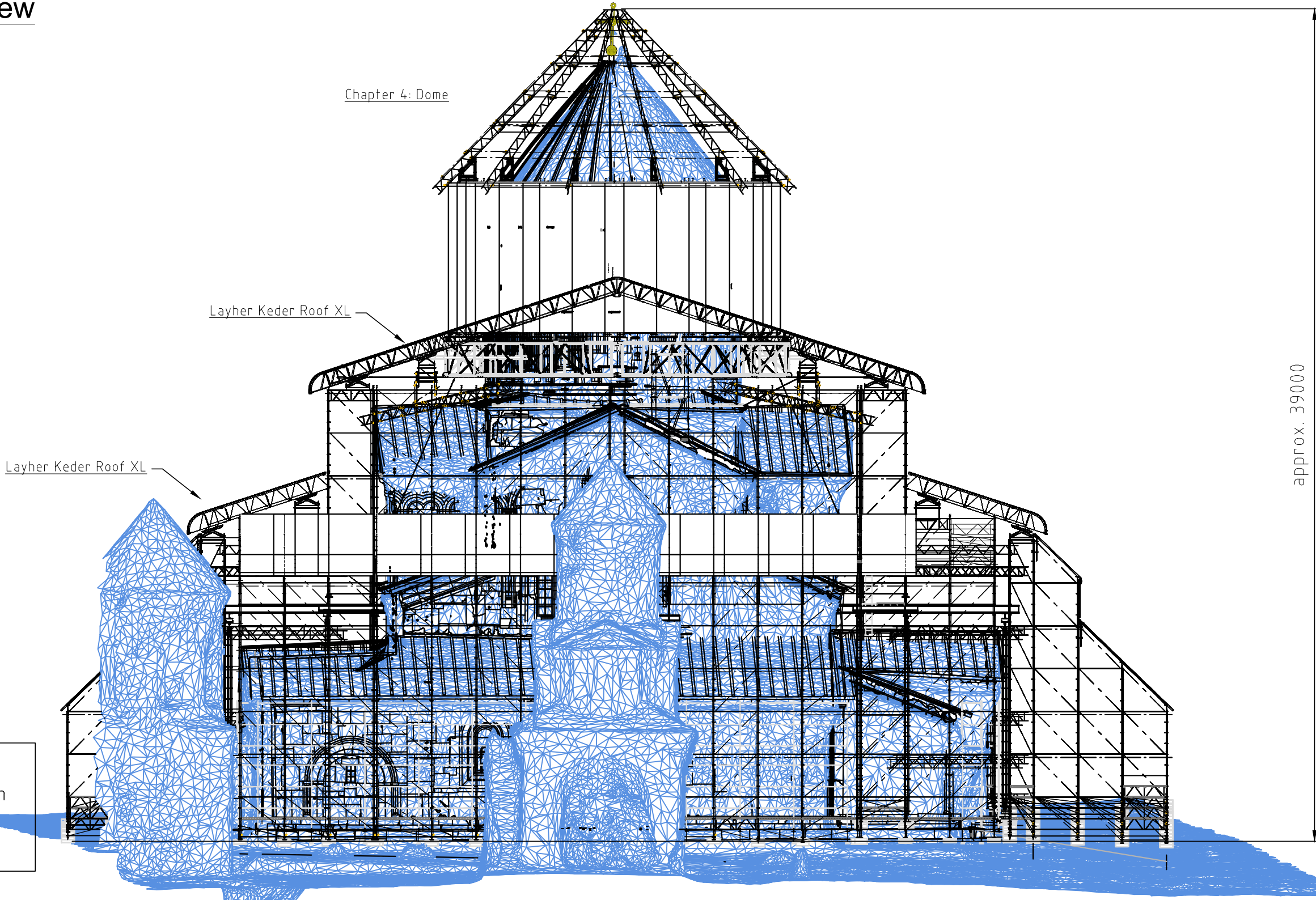
Front View
Scale 1:200



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
 $q_b, 0 = 0,47 \text{ kN/m}^2$ 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
The scaffolding is completely covered, except of the lower parts.
4. Earthquake
Groundtype R, $a_g = 0,14 \times g$, according to EN 1998

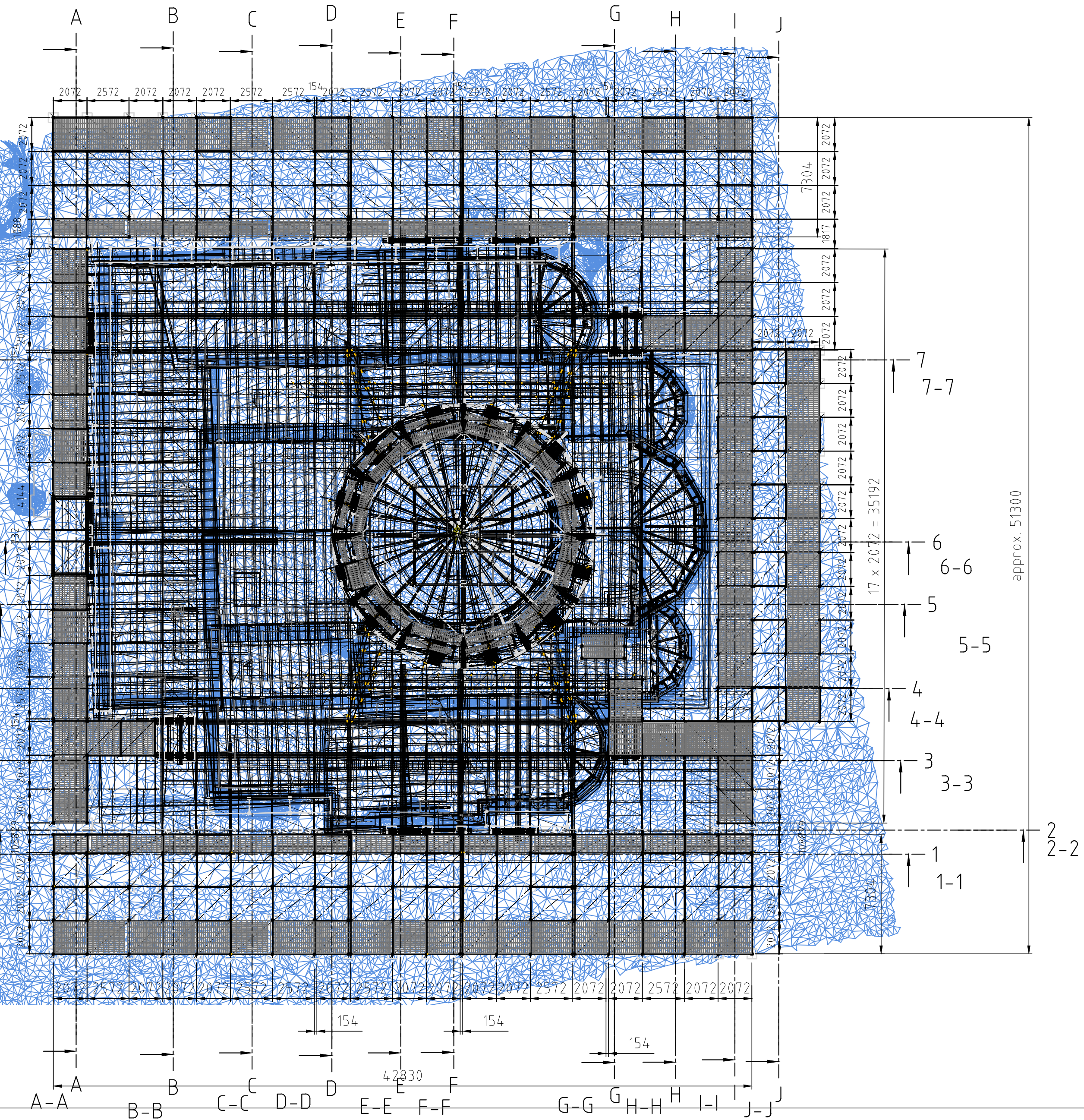
The tarpaulin can be dispensed with in the lower area. Up to a height of approx. 6m.

Side View
Scale 1:200

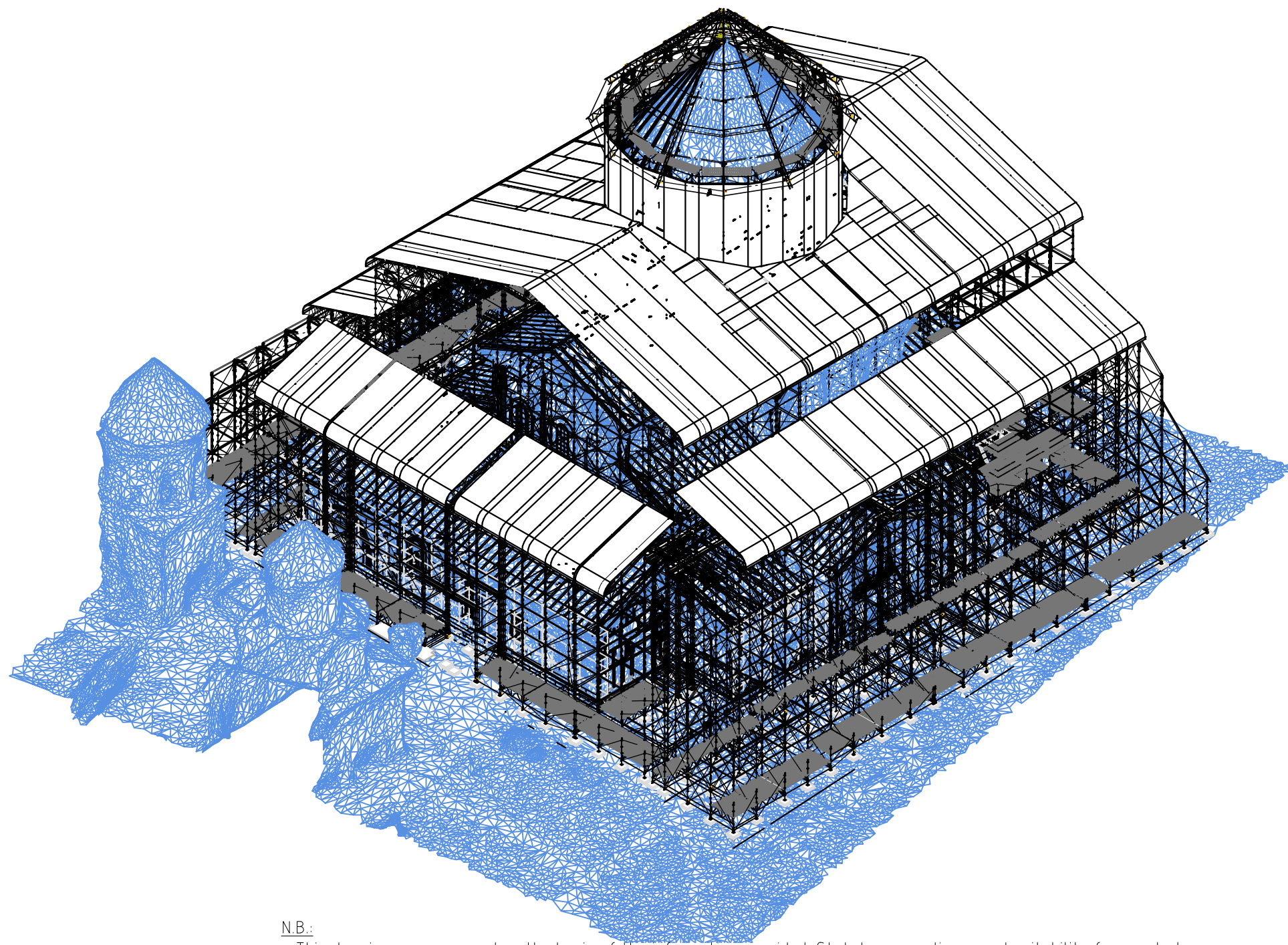


The scaffold has to be connected at every corner with tubes and couplers in every level!

Top View
Scale 1:200



Isometric view
n.t.s.



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

- Calculations and load tables for standard applications are available for the roof trusses. - 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 $\leq 1,0 \text{ m}$
- 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.

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)
 $F_s, k = 15,0 \text{ kN}$

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

NK+VK=Right Angle Coupler+
additional (class BB)
 $F_s, k = 25,0 \text{ kN}$

Structural engineer Dipl.-Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7066/9179841 Fax.: 9179849 statik@ing-knobloch.de			
Project: Monastery of Gelati Temporary Roof			
Principal: Locum Tenens of Particular Throne of Georgia			
Scale:	dr. VK	drawn	Project
1:1	dr. VK	30.12.24	23-090
1:1	dr. VK	30.12.24	Drawing: 1

Version 18.12.2024 (Index K Layher)

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.

Drawn: 07.07.2023 SADA_BARROS
Checked:
Scale: var

Layher. 
More Possibilities. The Scaffolding System.

Wilhelm Layher GmbH & Co KG
Postfach 45
D-74361 Güglingen-Ebensbach
Tel.: (07135) 70-0 / Fax: 70-399
E-Mail: info@layher.com

KD Keder Roof XL
Gelati Monastery

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Drawing No.: 1

Section A-A

Scale 1:200

Chapter 1:

Summary of loads

1. Dead load according to documents Layher and technical drawings

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$s_k = 0,25 \text{ kN/m}^2$. 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

Categorie II-III

Temporary construction, checked once a year

$c_t = 0,7$ see DIN EN 1991-1-4 NA B

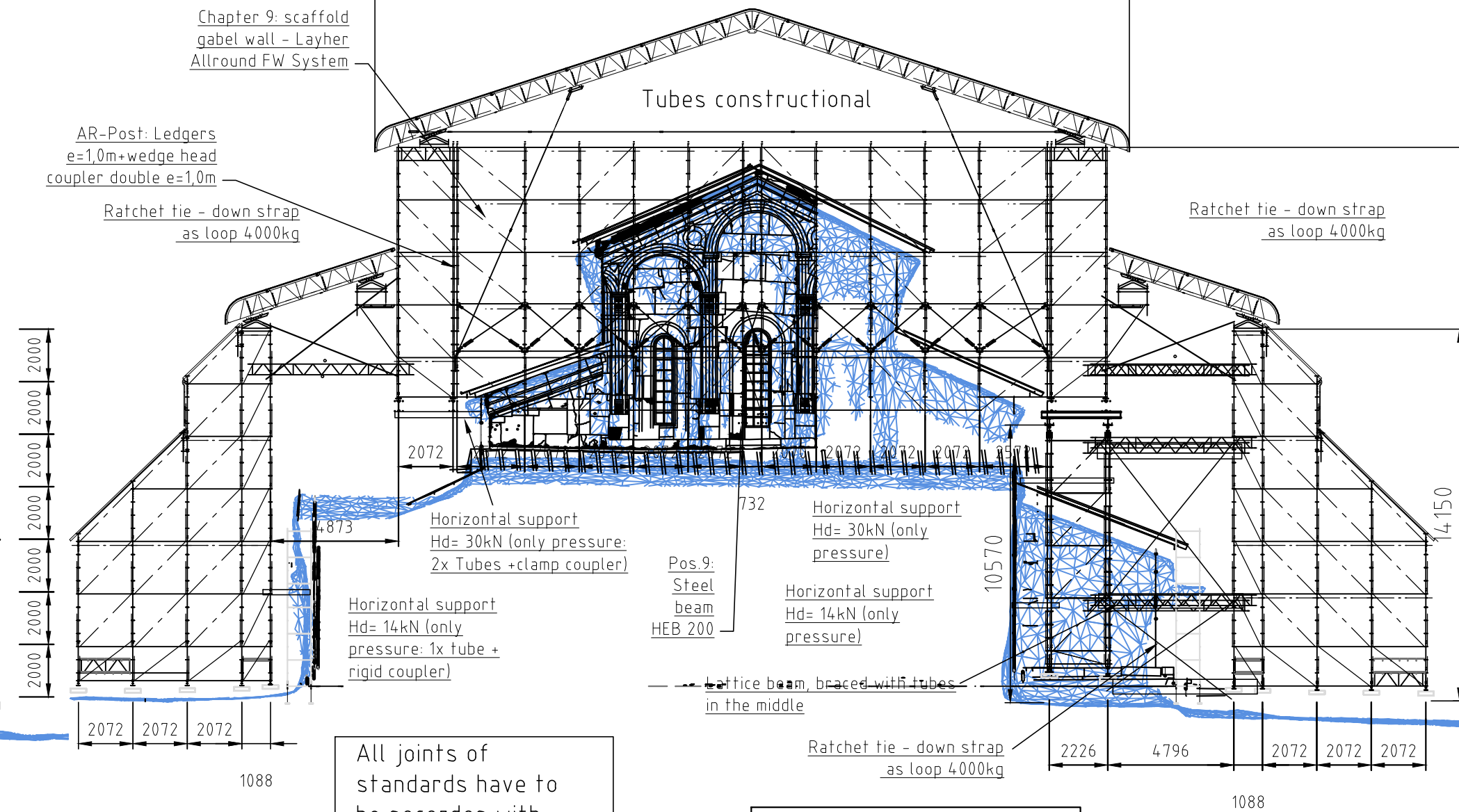
The scaffolding is completely covered, except of the lower parts.

4. Earthquake

Groundtype R, $a_g = 0,14 \times g$, according to EN 1998

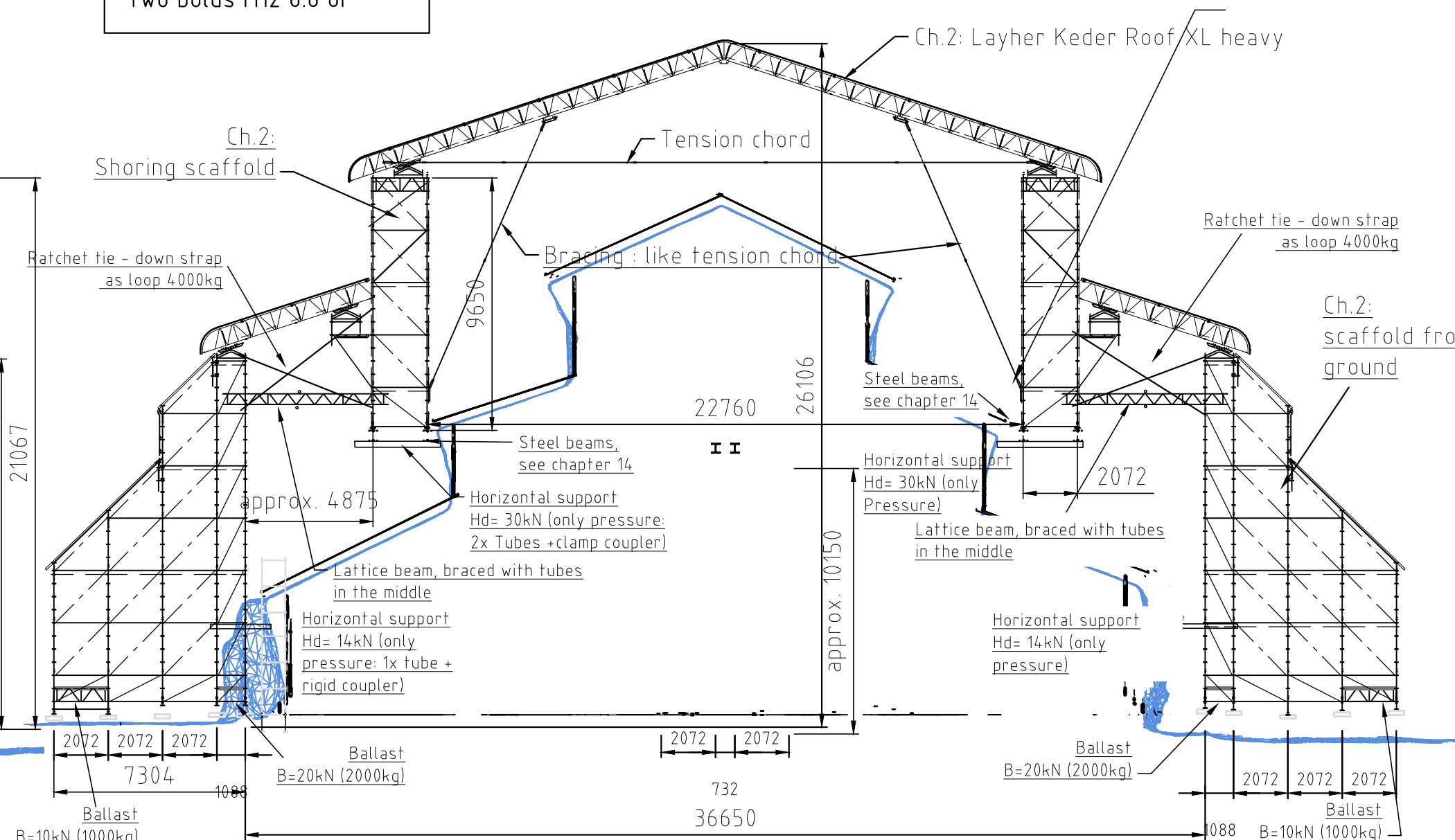
Section B-B

Scale 1:200



Section C-C

Scale 1:200



Section D-D

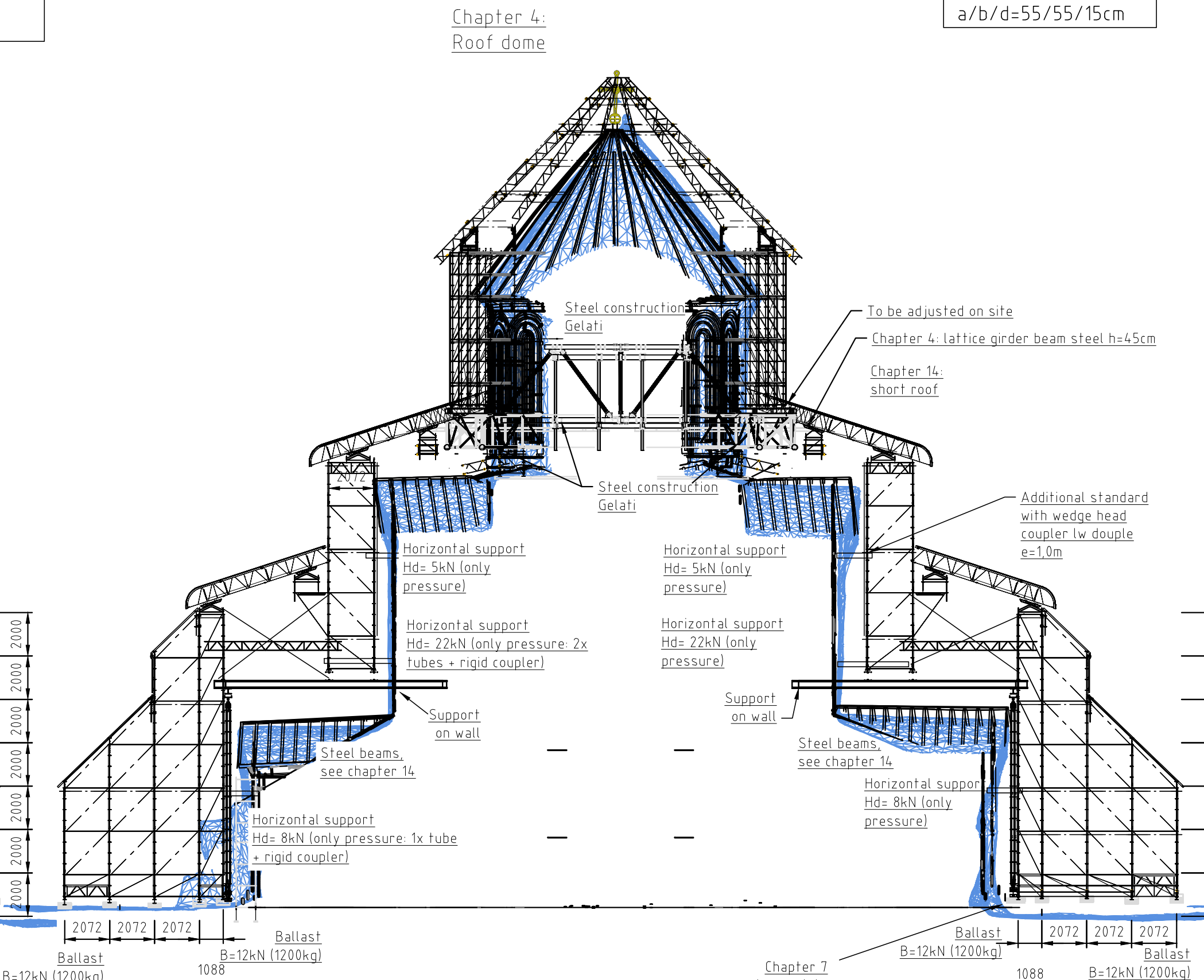
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The tarpaulin can be dispensed with in the lower area. Up to a height of approx. 6m.

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

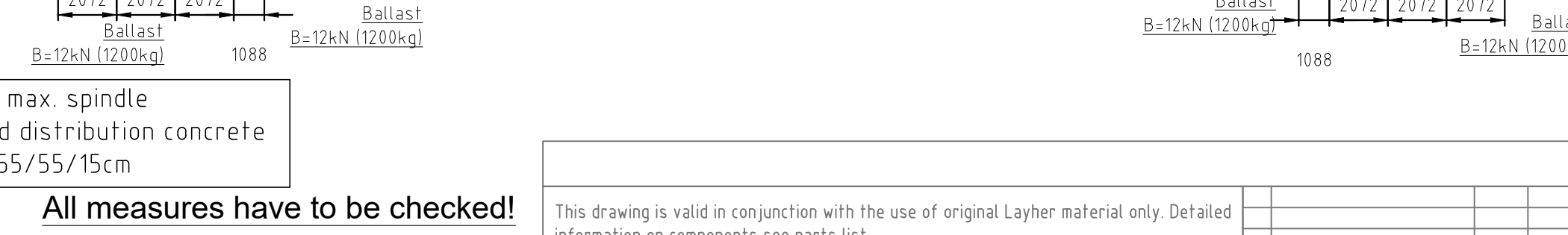
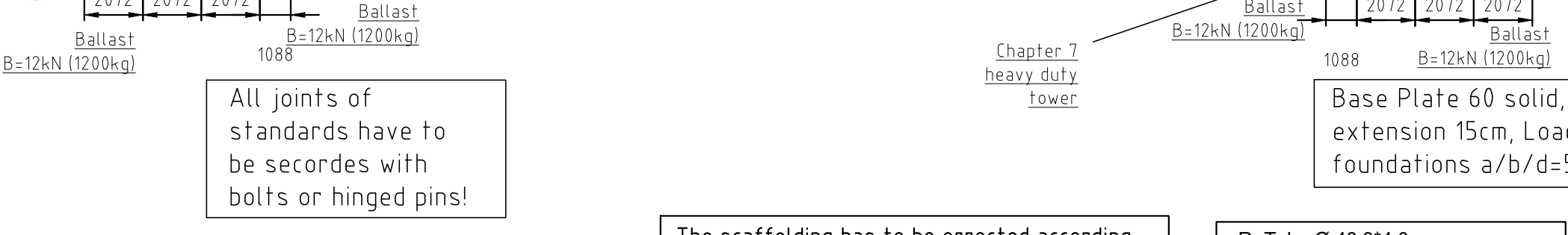
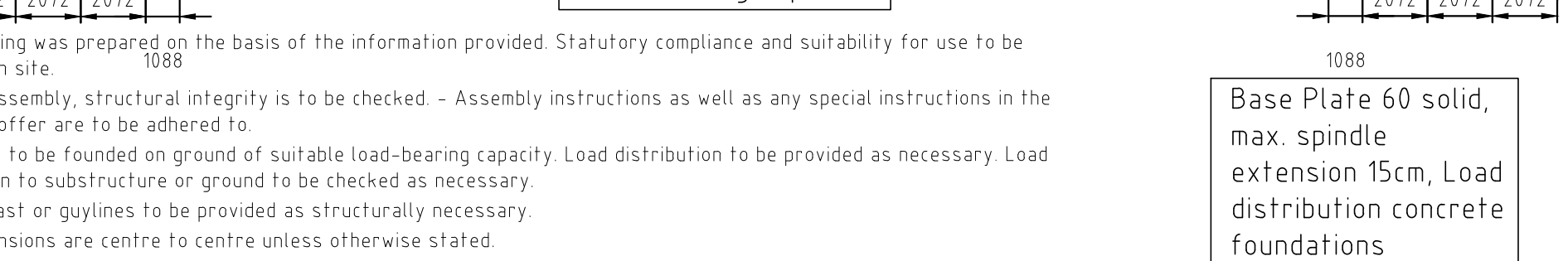
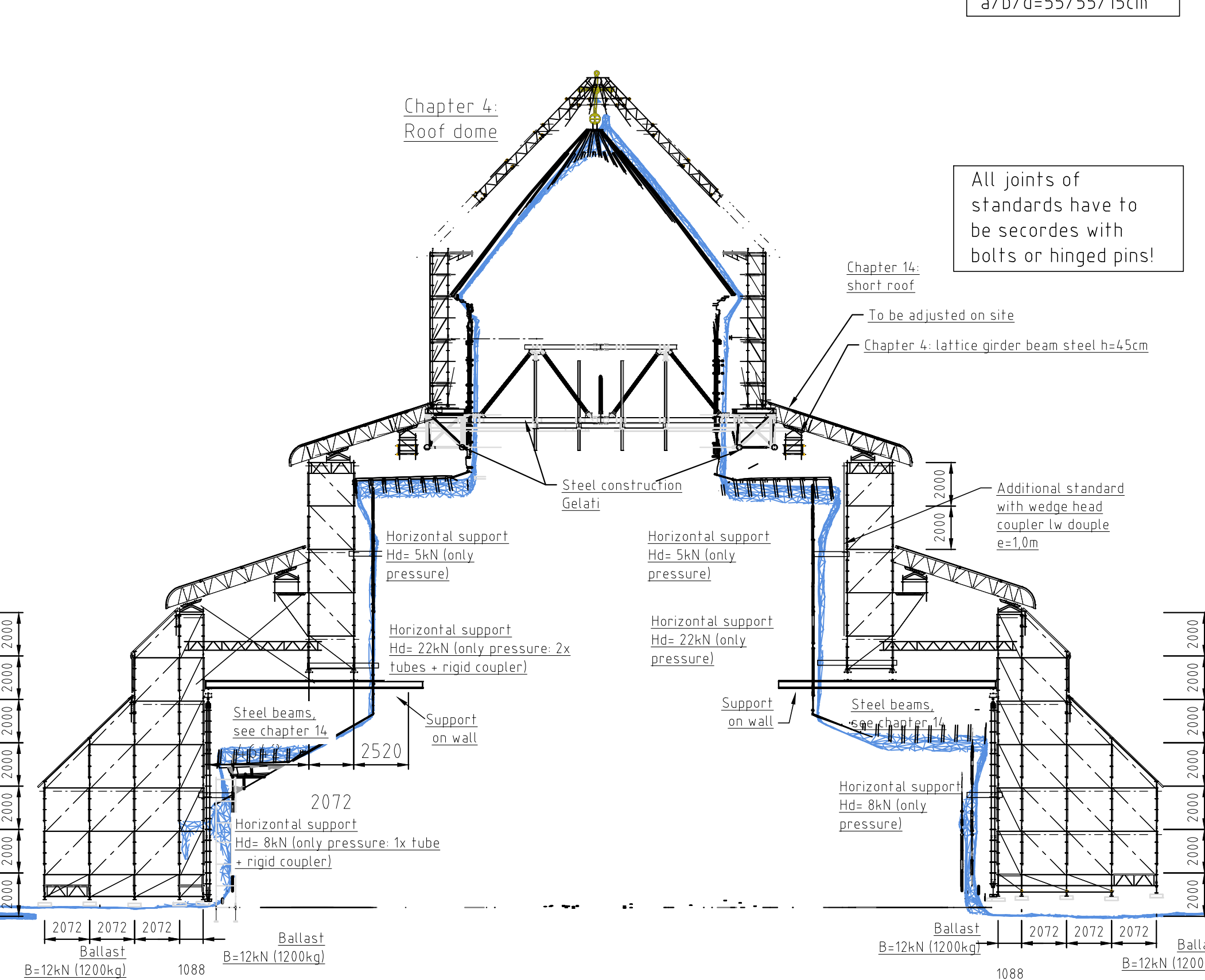
Section E-E

Scale 1:200



Section F-F

Scale 1:200



- Calculations and load tables for standard applications are available for the roof trusses. - 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).
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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.

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Couplers acc. EN 12811-1

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 $F_s, k = 15,0 \text{ kN}$

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

NK+VK=Right Angle Coupler+ additional (class BB)
 $F_s, k = 25,0 \text{ kN}$

All measures have to be checked!

Structural engineer	Dipl.-Ing. Volker Knobloch
Address	Andersener, 15 D-74078 Heilbronn, Germany
Tel.	+0949 7066917841 Fax: +917849
stahl@ing-knobloch.de	
Project	Monastery of Gelati Temporary Roof
Principal	Locum Tenens of Patriarchal Throne of Georgia
Scale	dr VK grown 23.000
var	ch VK 30.12.24 Drawing: 2

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 .			
Drawn	07.07.2003	SADA_BARRIS	
Checked			
Scale	var		
KD Keder Roof XL Gelati Monastery			2

Layher More Possibilities. The Scaffolding System.

Wilhelm Layher GmbH & Co KG
Postfach 47
D-74361 Güglingen-Ebensbach
Tel. (07135) 75-0 / Fax 75-399
E-Mail: info@layher.com

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Drawing No.:

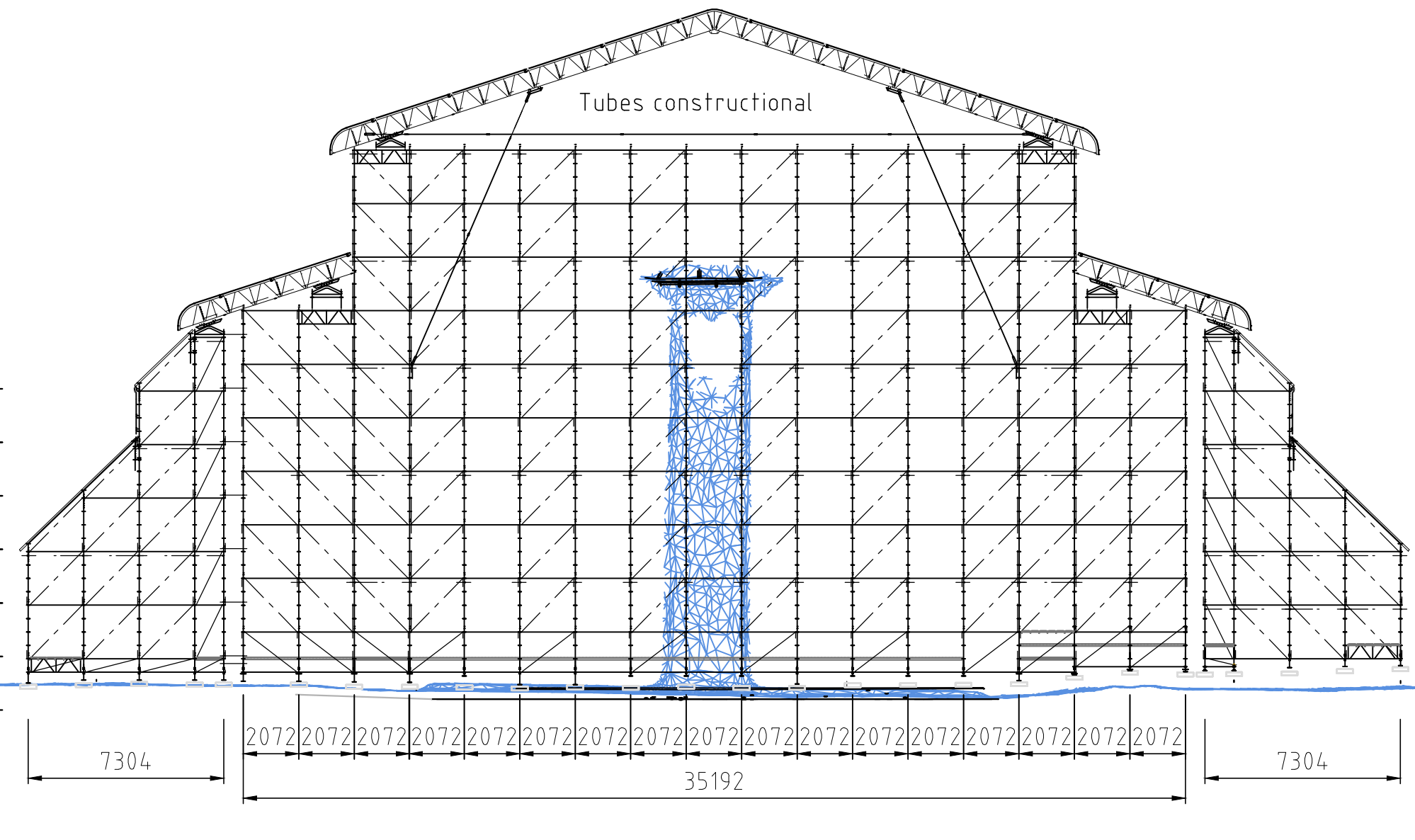
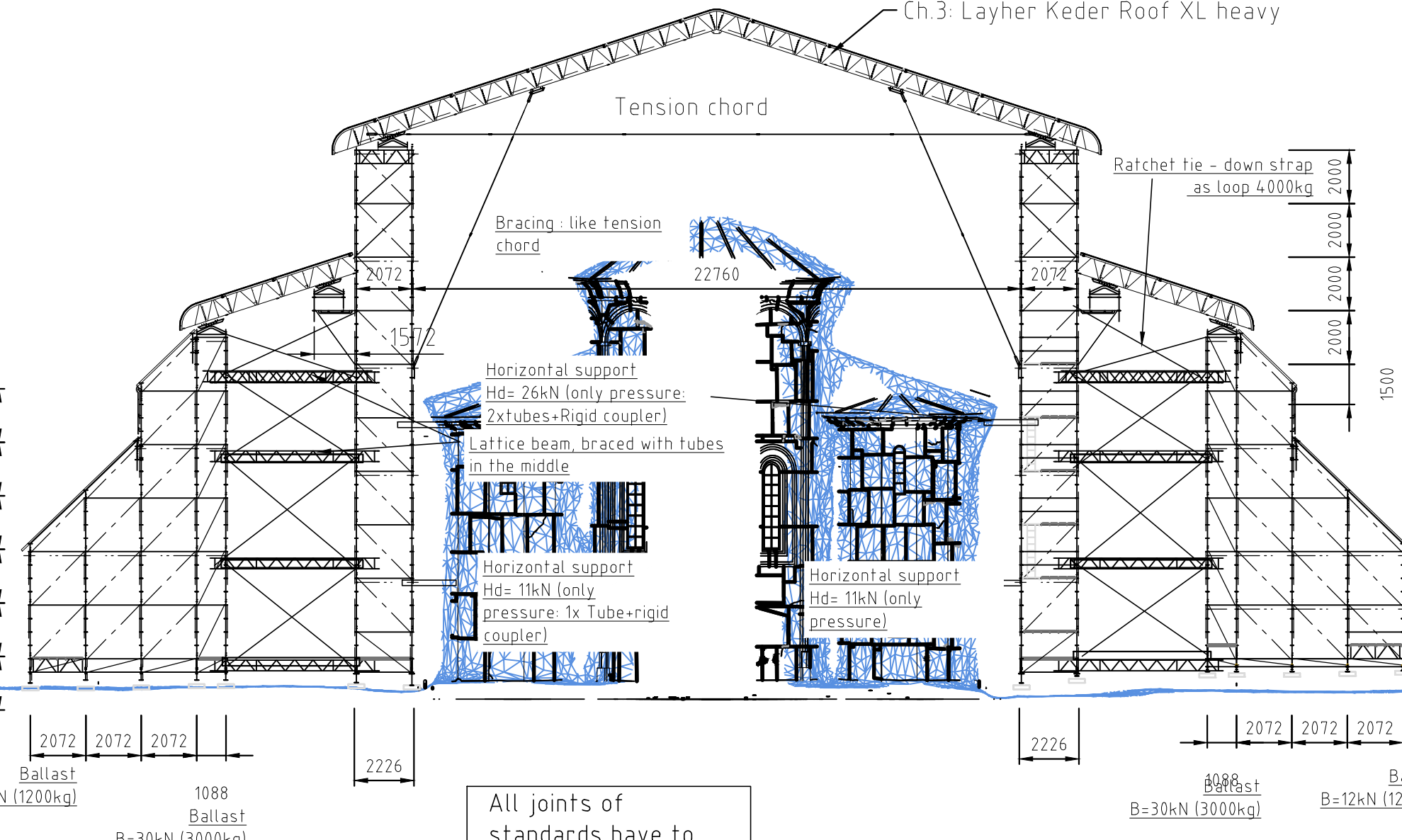
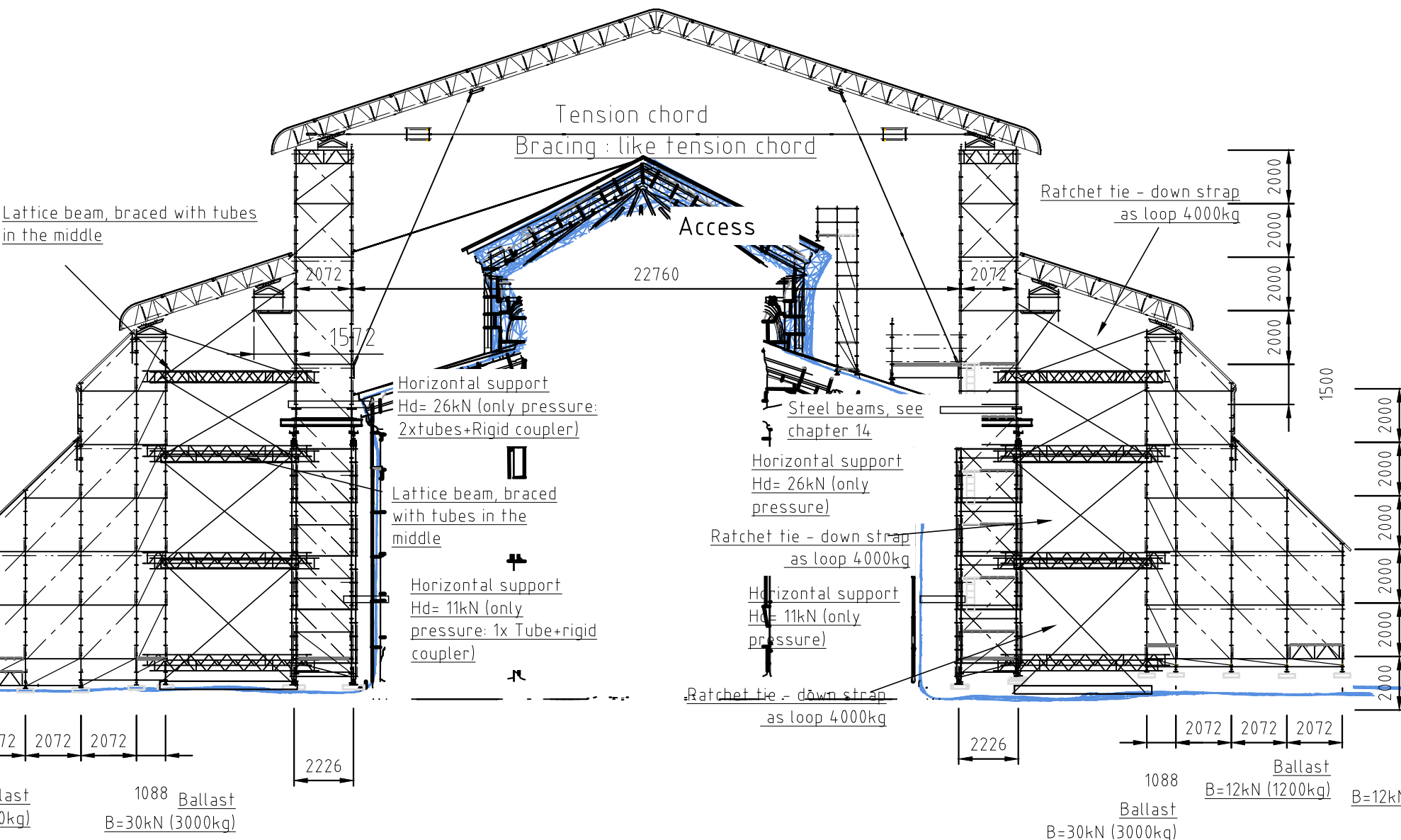
Section G-G
Scale 1:200

Section H-H
Scale 1:200

Section I-I
Scale 1:200

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

Chapter 3:
Roof section h - h



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

The tarpaulin can be
dispensed with in the lower
area. Up to a height of
approx. 6m.

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

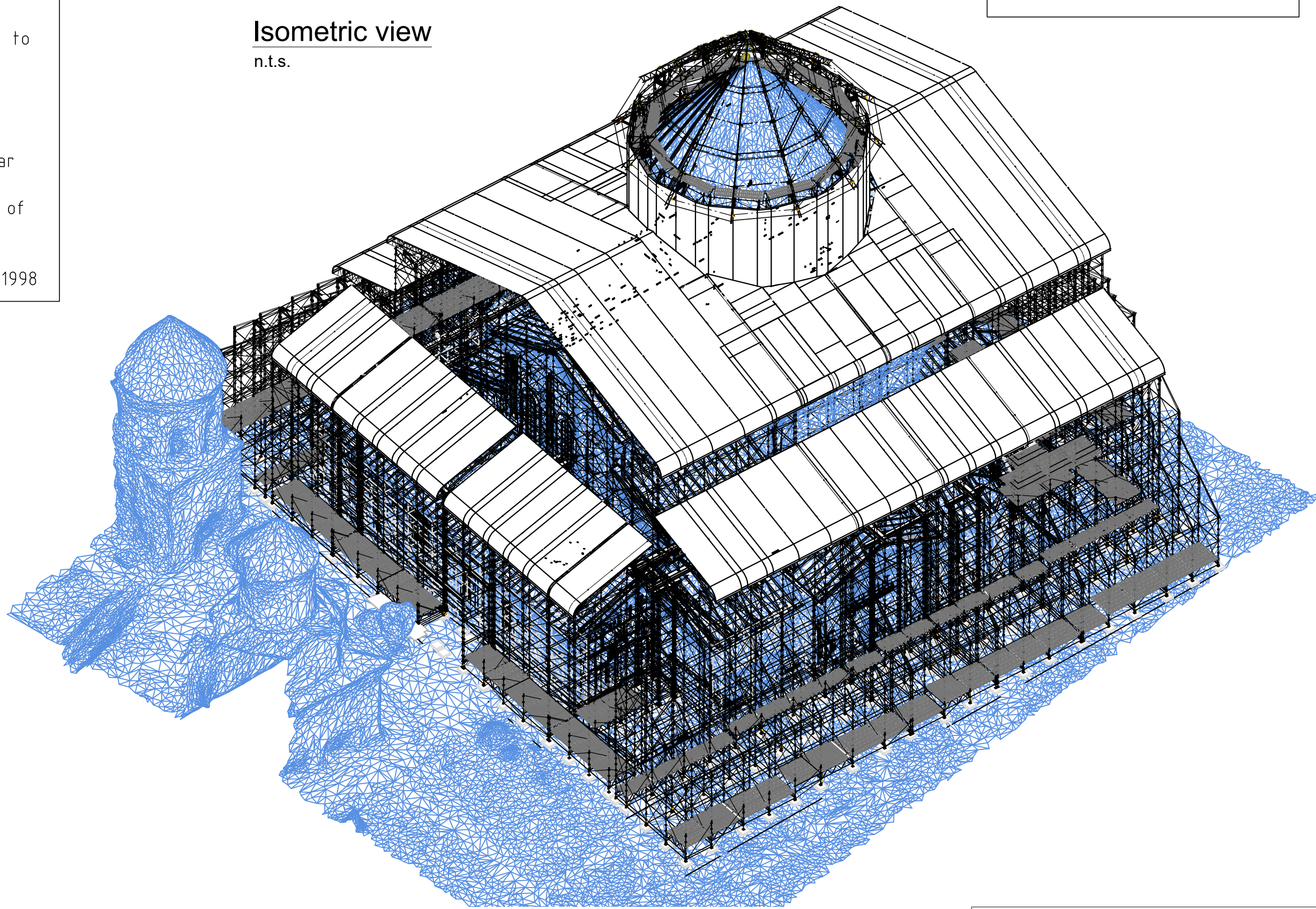
Base Plate 60 solid,
max. spindle
extension 15cm, Load
distribution concrete
foundations
a/b/d=55/55/15cm

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

Ballast: siehe sectional views and
ground view!

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
 $c_t = 0,7$ see DIN EN 1991-1-4 NA-B
The scaffolding is completely covered, except of the lower parts.
4. Earthquake
Groundtype R, $a_g = 0,14 \times g$, according to EN 1998

Isometric view
n.t.s.



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

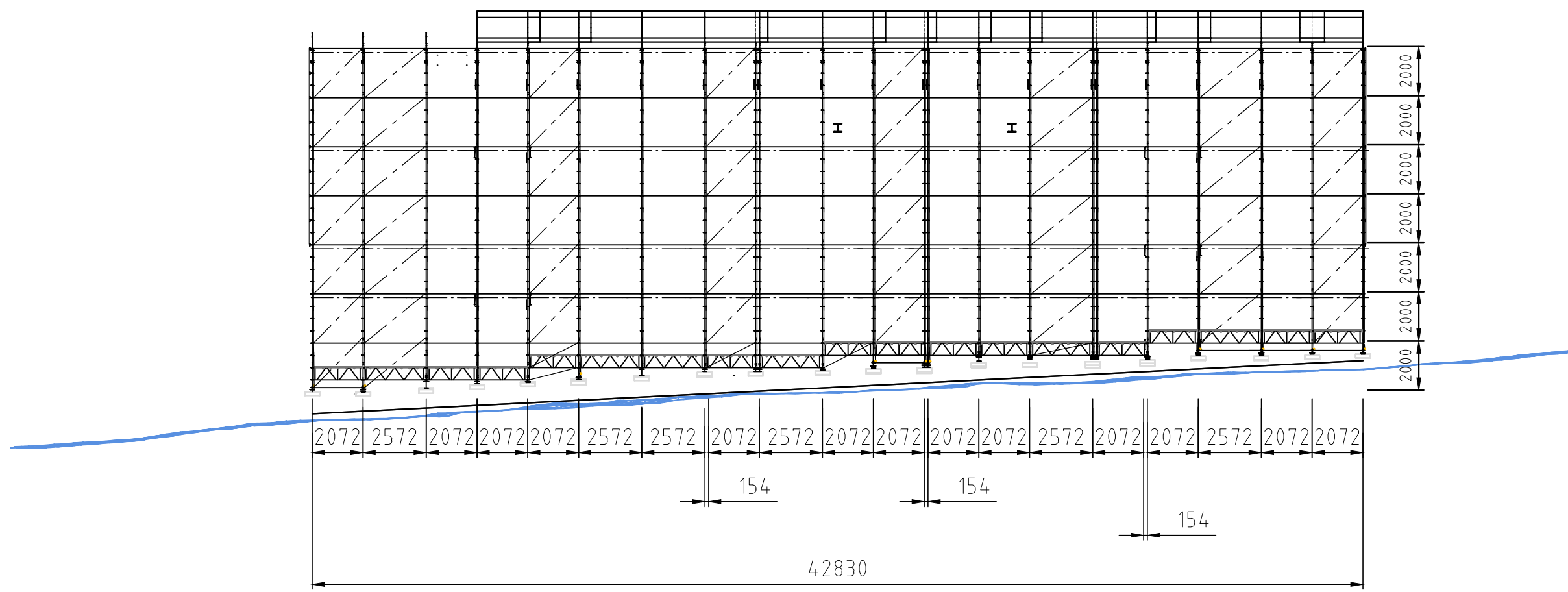
All measures have to be checked!

Structural engineer Dipl. Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7068/9179841 Fax.: /9179849 statik@ing-knobloch.de			
Project: Monastery of Gelati Temporary Roof		Principal: Locum Tenens of Patriarcal Throne of Georgia	
Scale:	dr. VK	drawn by	Project: 23-090
var	ph. VK	30.12.24	Drawing: 3

Version 18.12.2024 (Index K Layher)

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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 .											
Date		Name		No.		Alteration		Date		Name	
07.07.2003		SADA BARROS		 Layher. More Possibilities. The Scaffolding System. Wilhelm Layher GmbH & Co KG Postfach 12 D-74361 Güglingen-Ebensbach Tel.: (07135) 70-0 / Fax: 70-309 E-Mail: info@layher.com The reproduction, distribution and utilization of this contents 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 9001.							
Drawn											
Checked											
Scale		var		Drawing No.: 3							
-		KD Keder Roof XL Gelati Monastery		-							

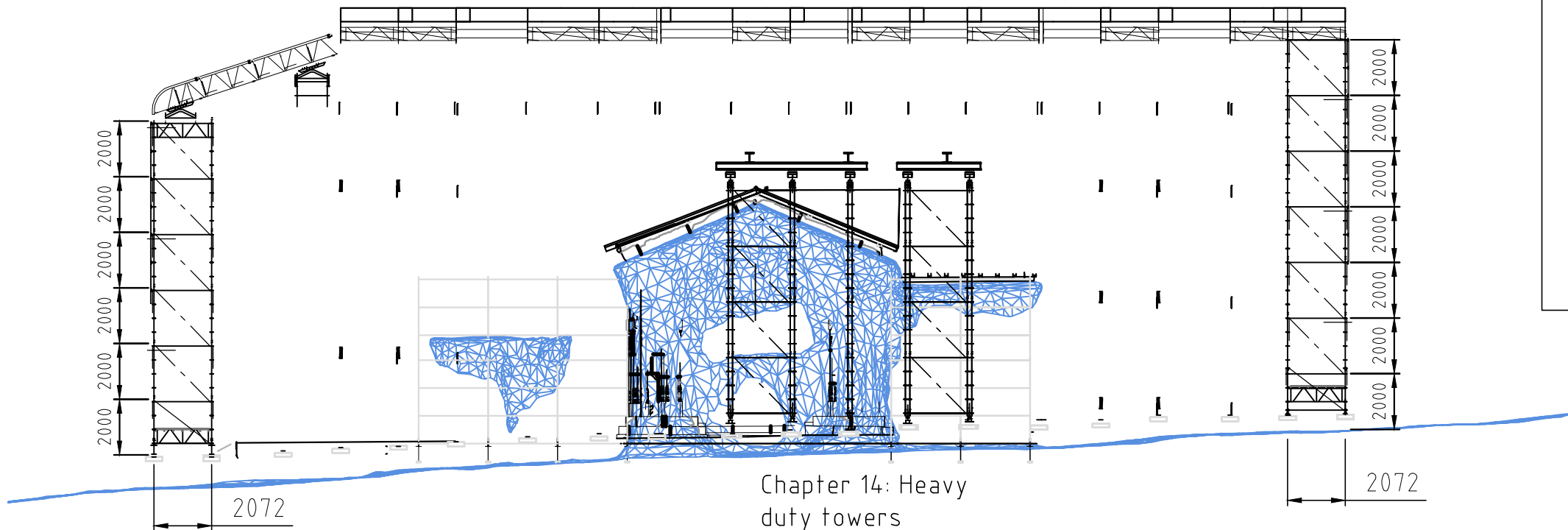
Section 1-1
Scale 1:200



Section 3-3
Scale 1:200

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 tarpaulin can be
dispensed with in the lower
area. Up to a height of
approx. 6m.

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

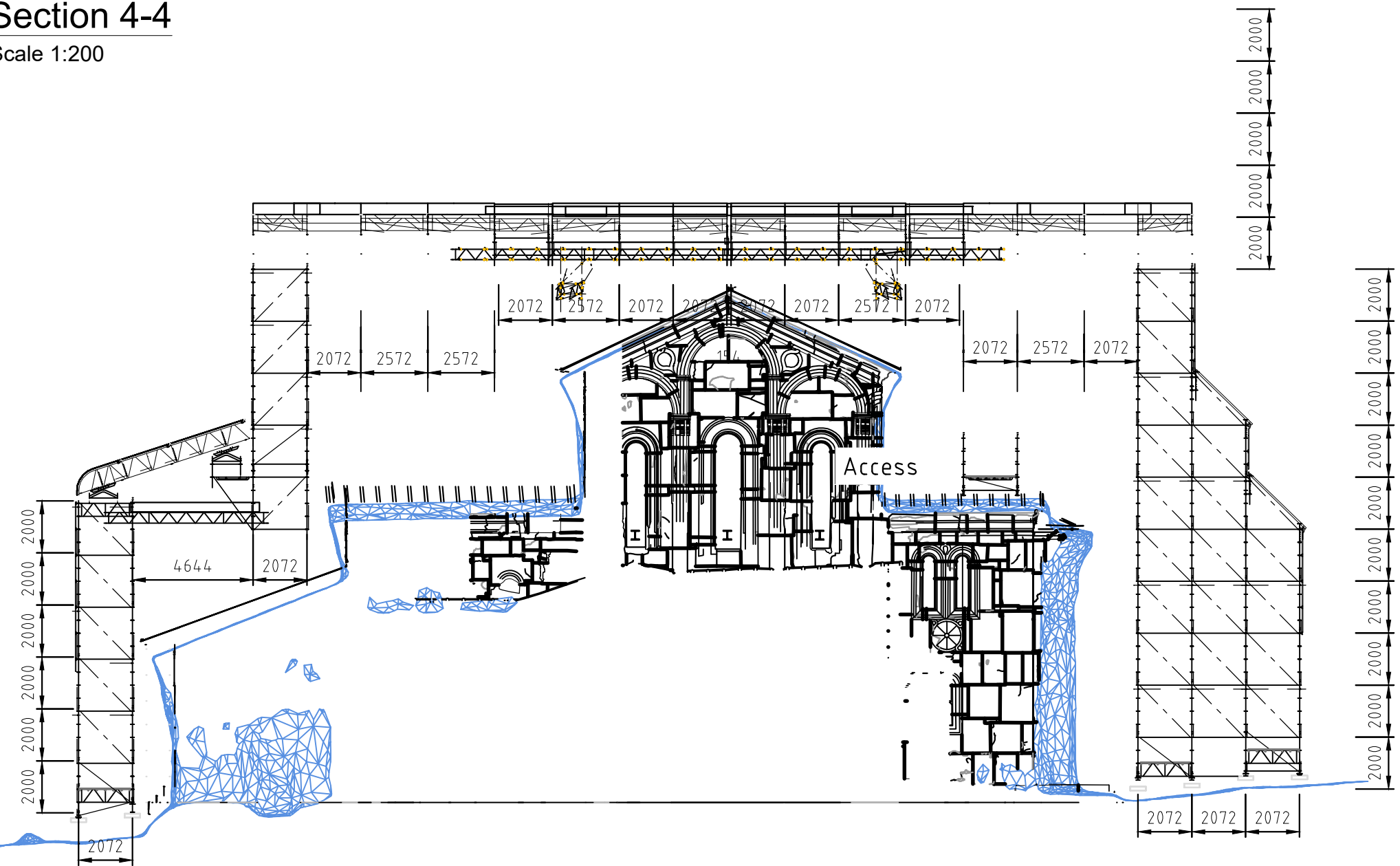
Ballast: siehe sectional views and
ground view!

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

Chapter 1:
Summary of loads
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 $s,k=0,25kn/m^2$. The snow on the roof has to
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3. Wind load
 $q_b,o=0,47kn/m^2$ see DIN EN 1991-1-4 NA.A
Categorie II-III
Temporary construction, checked once a year
 $ct=0,7$ see DIN EN 1991-1-4 NA.B
The scaffolding is completely covered, except of
the lower parts.
4. Earthquake
Groundtype R, $a_g=0,14 \times g$, according to EN 1998

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

Section 4-4
Scale 1:200



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

The tarpaulin can be
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NK+VK=Right Angle Coupler+
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All measures have to be checked!

Structural engineer Dipl.-Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7066 9179841 Fax: /9179849 staltik@ing-knobloch.de			
Project: Monastery of Gelati Temporary Roof			
Principal: Locum Tenens of Patriarcal Throne of Georgia			
Scale:	a. VK	Drawn on:	Project:
var	ch. VK	30.12.24	23-090
		Drawing:	4

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 .					
		Date	Name		
Drawn		07.07.2023	SADA_BARROS		
Checked					
Scale					
var		KD Keder Roof XL Gelati Monastery			
					4
					-

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

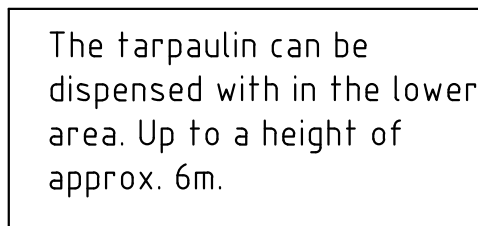
Layher Allround Lightweight
Approval-Nr.:
Z - 8.22 - 939

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Chapter 12: Steel Beams

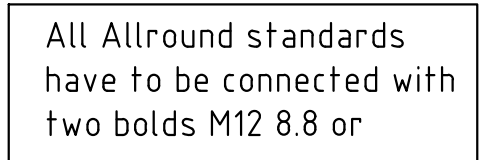
- Calculations and load tables for standard applications are available for the roof trusses. - Drainage to be assured on
site by suitable means.
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- spacing of rail mounts ≤ 1.0 m
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- Joints of standards subjected to tensile forces are to be secured by suitable means (e.g. bolted spigots or
LW-standards).

Scale 1:200



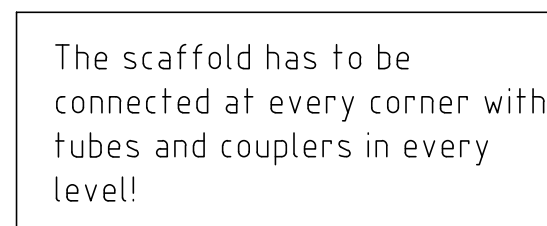
All joints of standards have to be secured with bolts or hinged pins!

Scale 1:200



The tarpaulin can be dispensed with in the lower area. Up to a height of approx. 6m.

Scale 1:200



Ballast: siehe sectional views and ground view!

The tarpaulin can be dispensed with in the lower area. Up to a height of approx. 6m.

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

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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

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DR=2xTube Ø 48.3*4,0 mm

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DK=Swivel Coupler (Class A)
Fs,k=10,0 kN

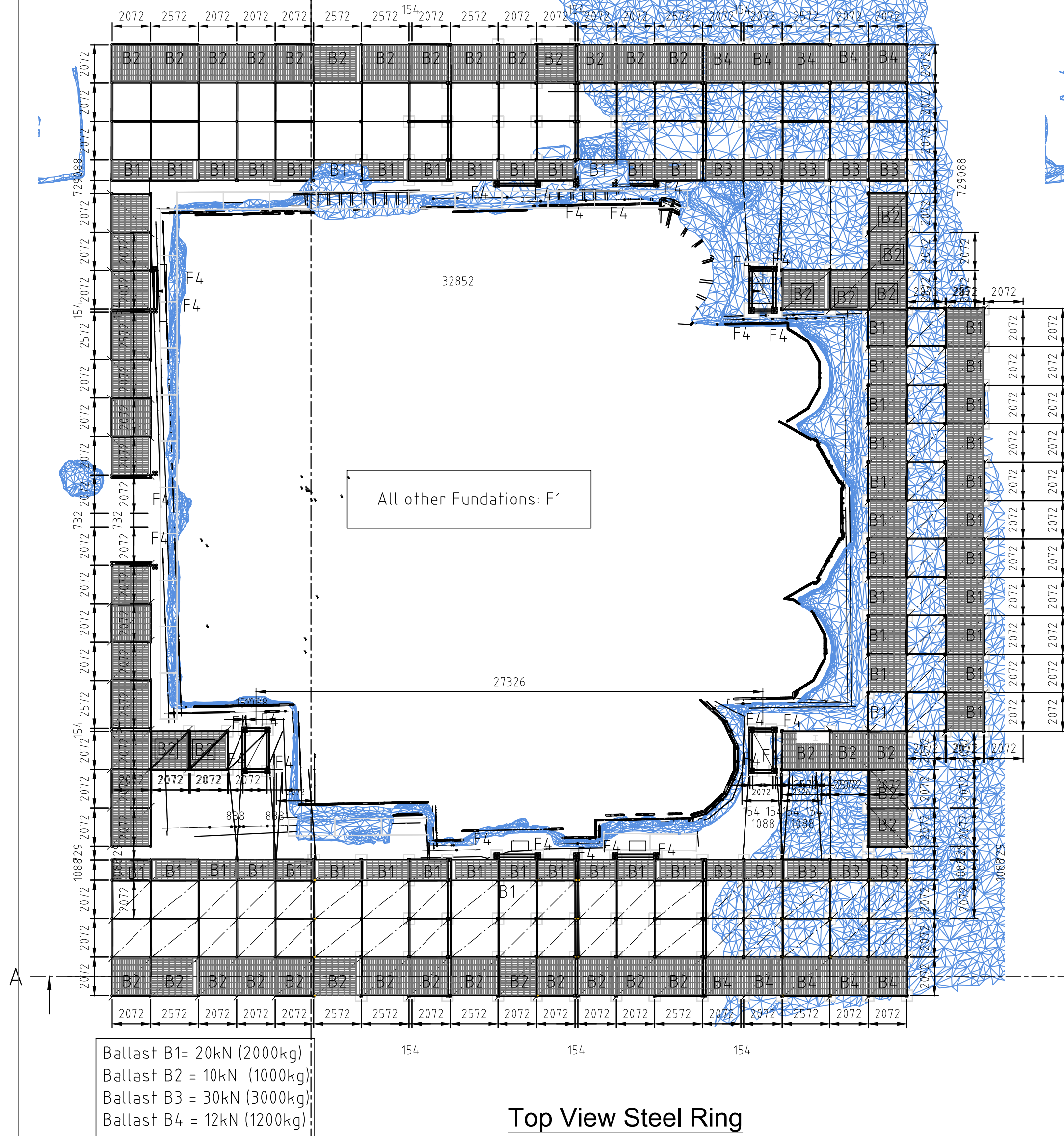
NK+VK=Right Angle Coupler+
additional (class BB)

All measures have to be checked!

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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 .					
	Date	Name	 More Possibilities. The Scaffoldings System.		
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Checked		Wilhelm Layher GmbH & Co KG Postfach 65 D-74361 Güglingen-Eibensbach	Tel.: (07135) 70-0 / Fax: 70-399 E-Mail: info@layher.com		
Scale			Drawing No.:		
var		KD Keder Roof XL	5		
-		Gelati Monastery	-		

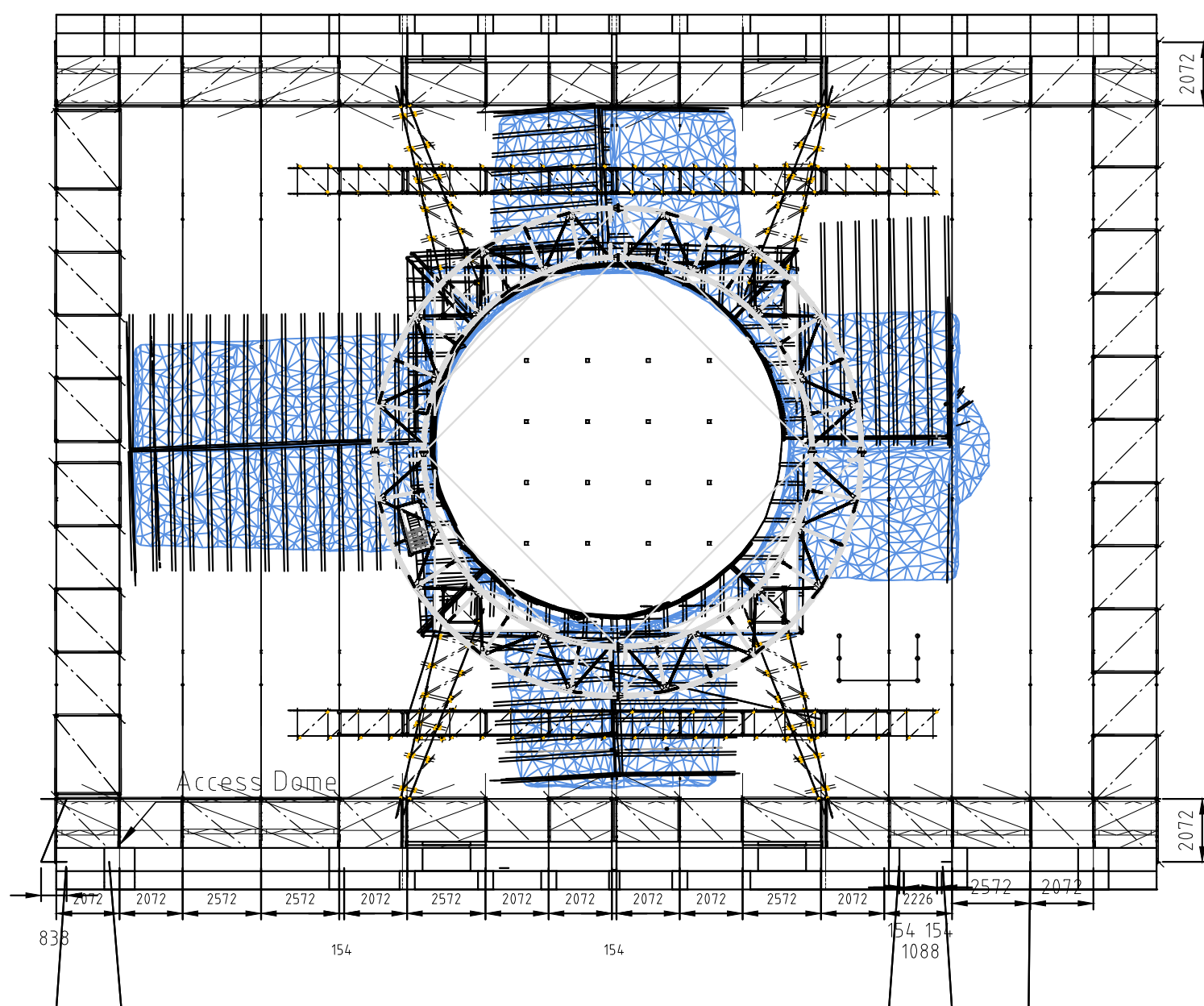
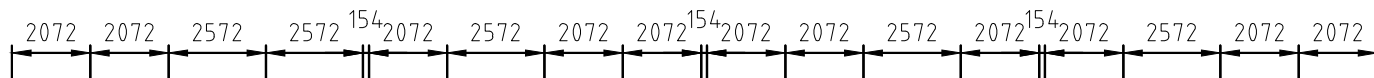
Top View Ballast and Foundation

Scale 1:200



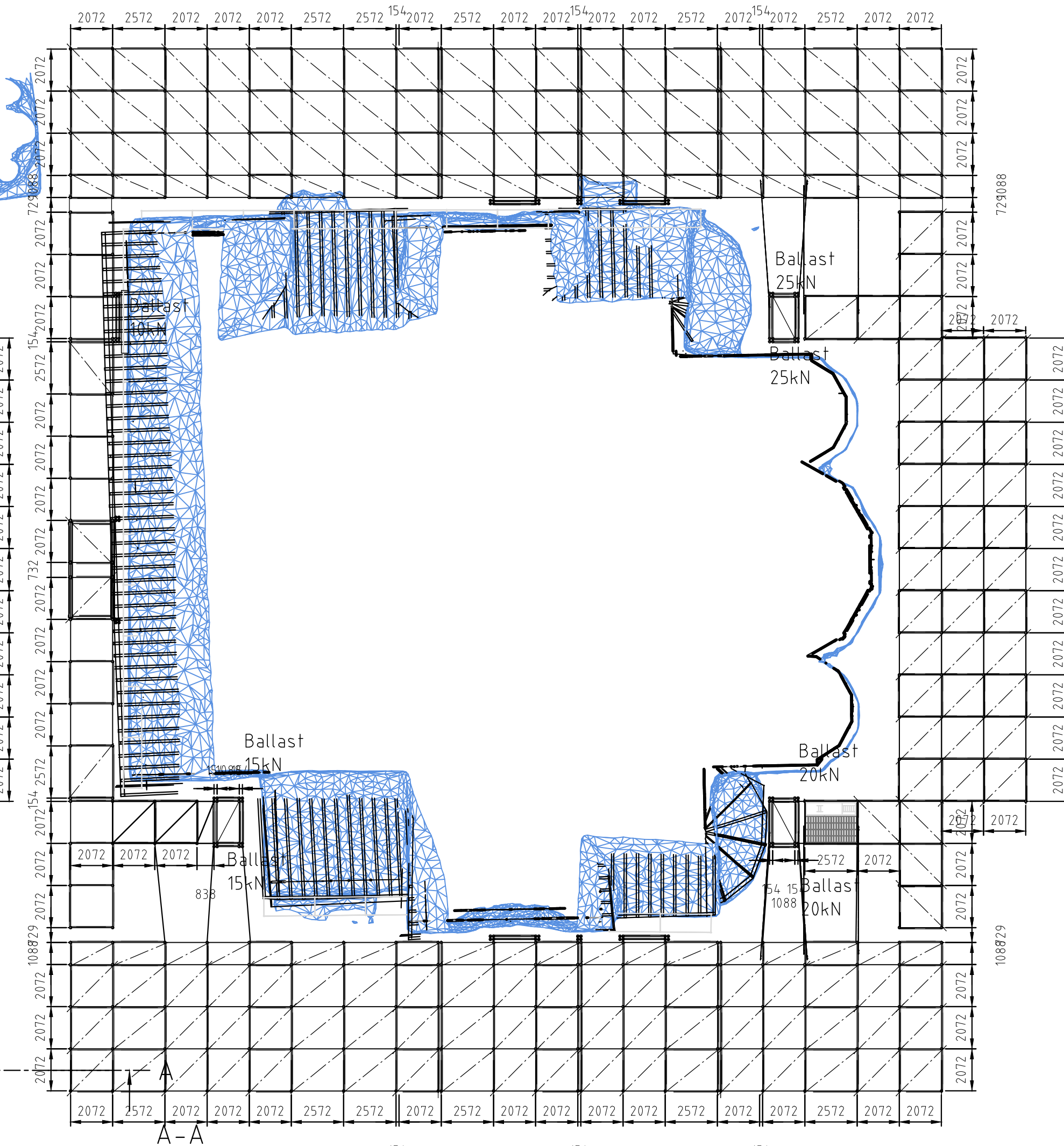
Top View Steel Ring

Scale 1:200



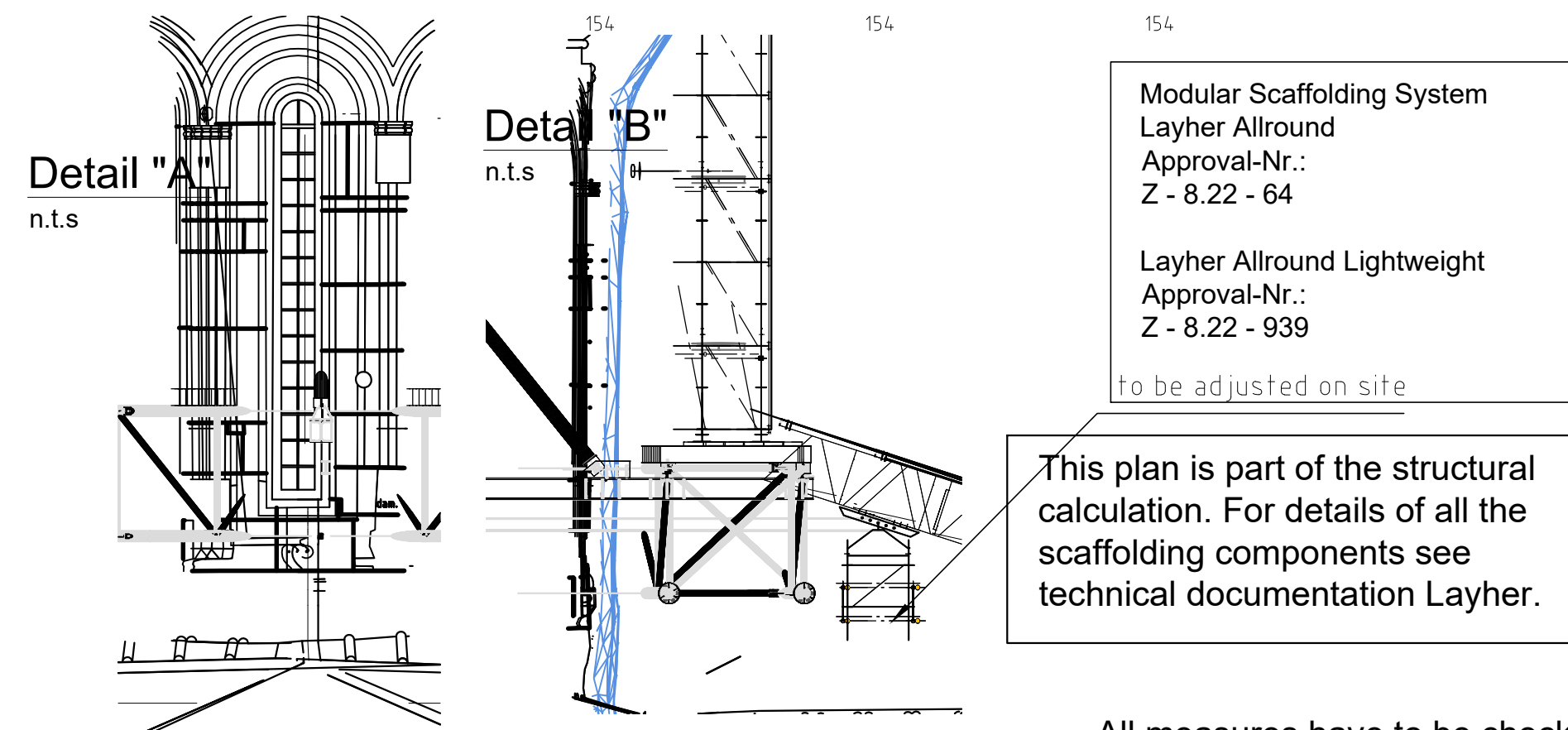
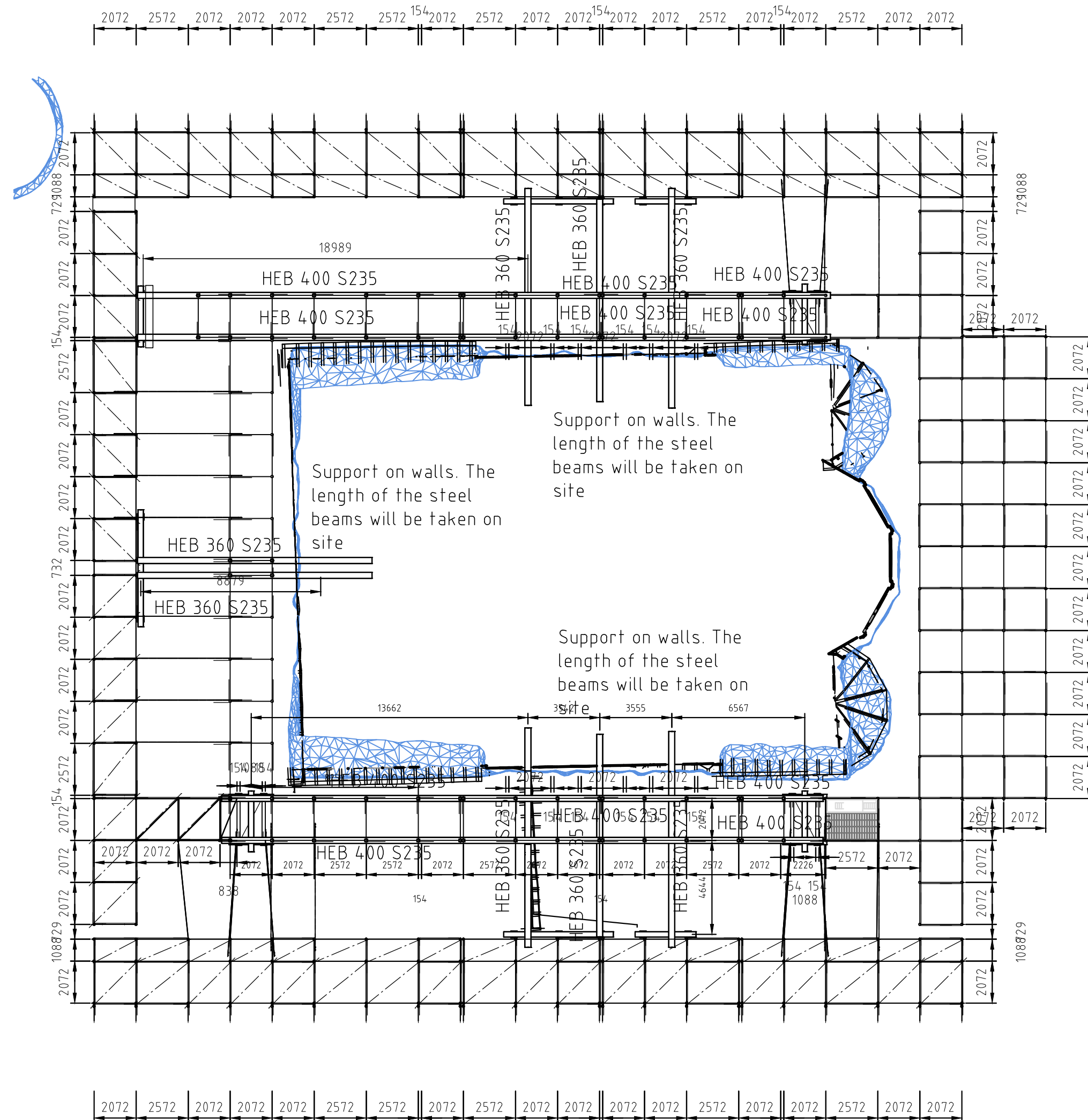
Top View Scaffolding at appr. 5m

Scale 1:200



Top View Steel Beams

Scale 1:200



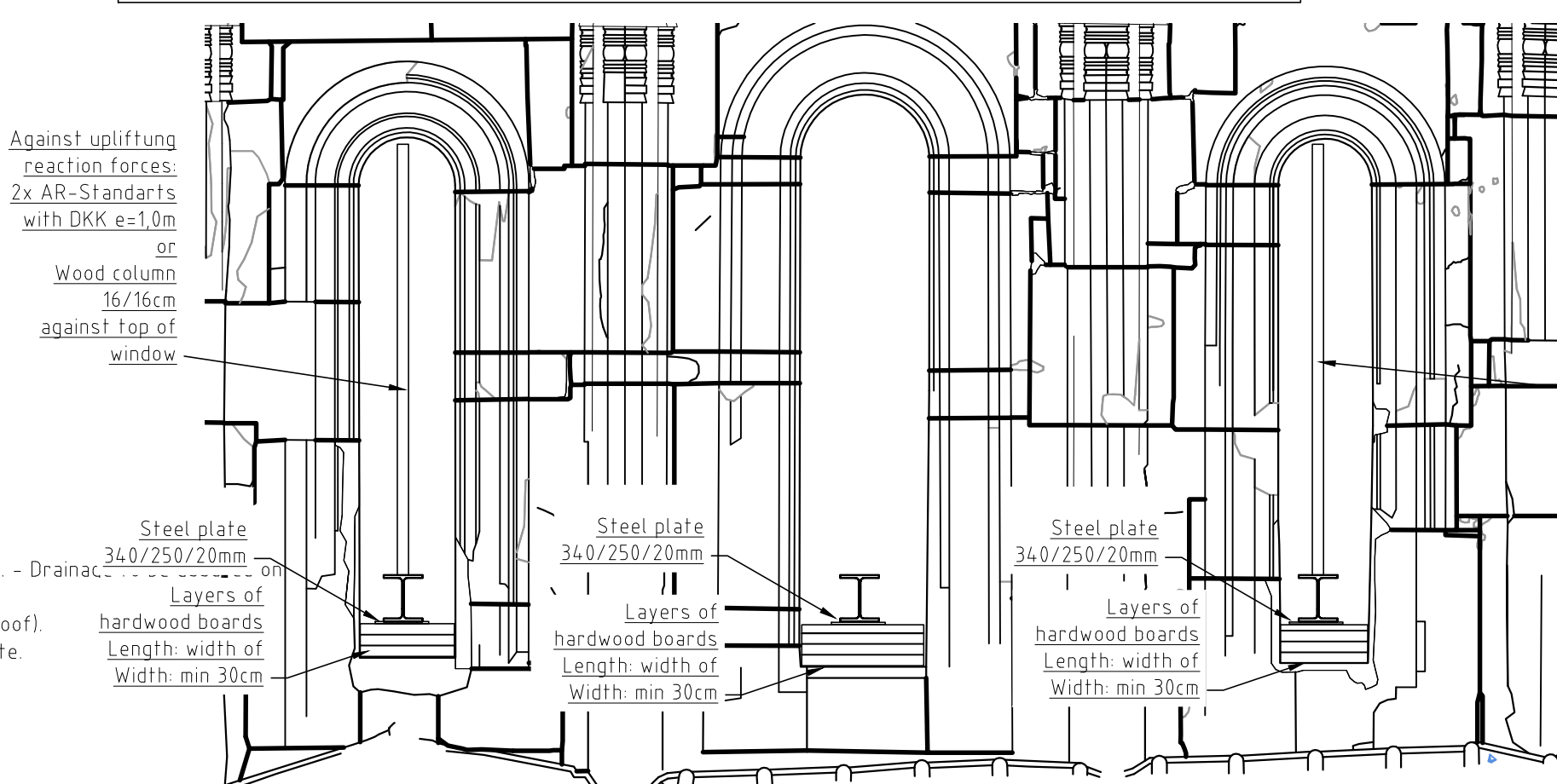
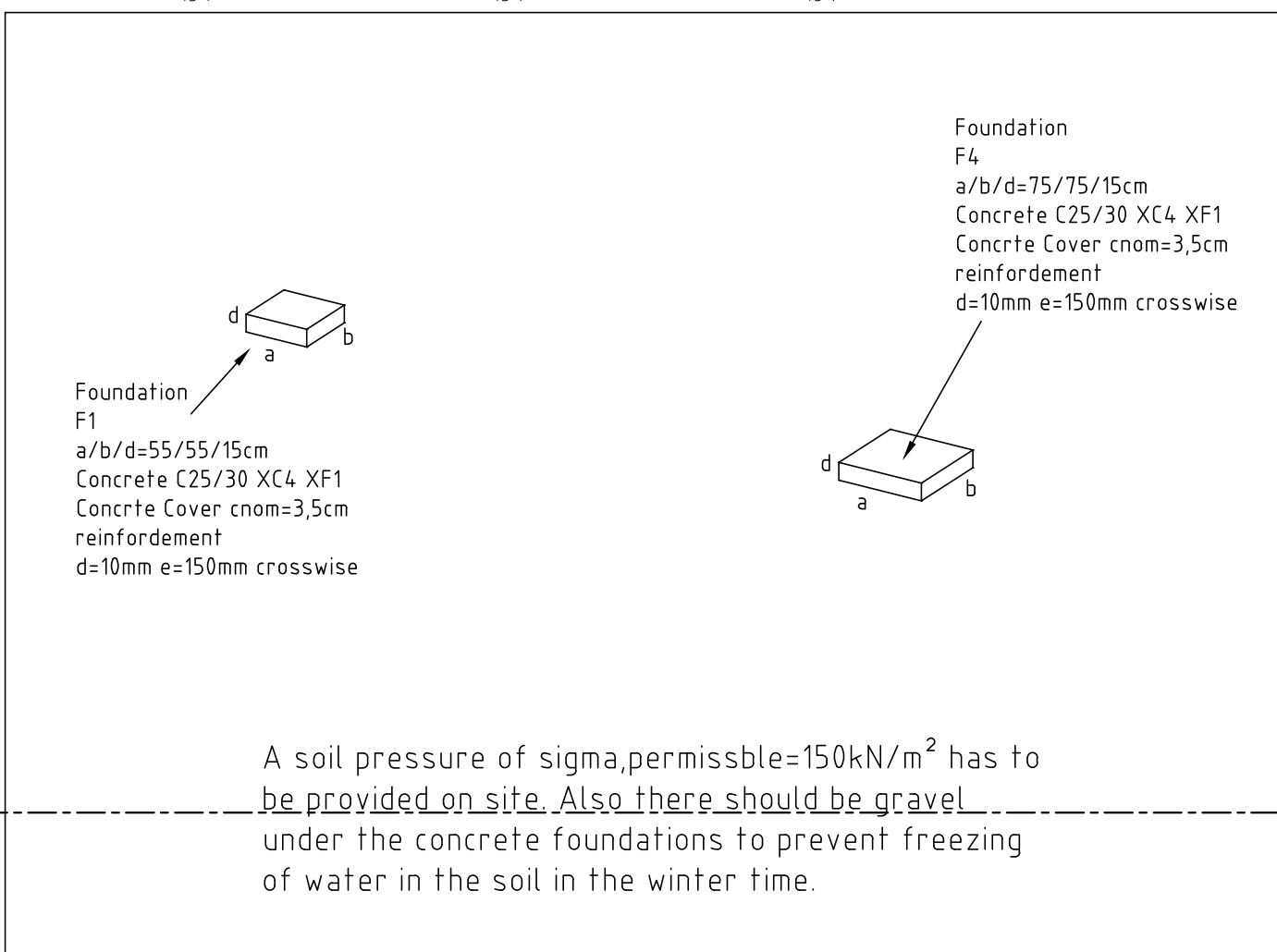
This plan is part of the structural calculation. For details of all the scaffolding components see technical documentation Layher.

All measures have to be checked!

Structural engineer Dipl.-Ing. Volker Knobloch Andersersstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 70669179841 Fax.: /9179849 volker.knobloch@knobloch.de			
Project: Monastery of Gelati Temporary Roof			
Principal: Locum Tenens of Patriarchal Throne of Georgia			
Scale:	dr. VK	drawn en	Project 23-090
var	ch. VK	30.12.24	Drawing 6

Version 18.12.2024 (Index K Layher)

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 .							
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Drawn	07.07.2023	SADA BARROS	Layher.  More Possibilities. The Scaffolding System.				
Checked			Wilhelm Layher GmbH & Co KG Postfach 42 D-74361 Güglingen-Ebensbach Tel.: (07135) 70-0 / Fax: 70-399 E-Mail: info@layher.com				
Scale	Drawing No.:						
var	6						
-	-						
KD Keder Roof XL							
Gelati Monastery							



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

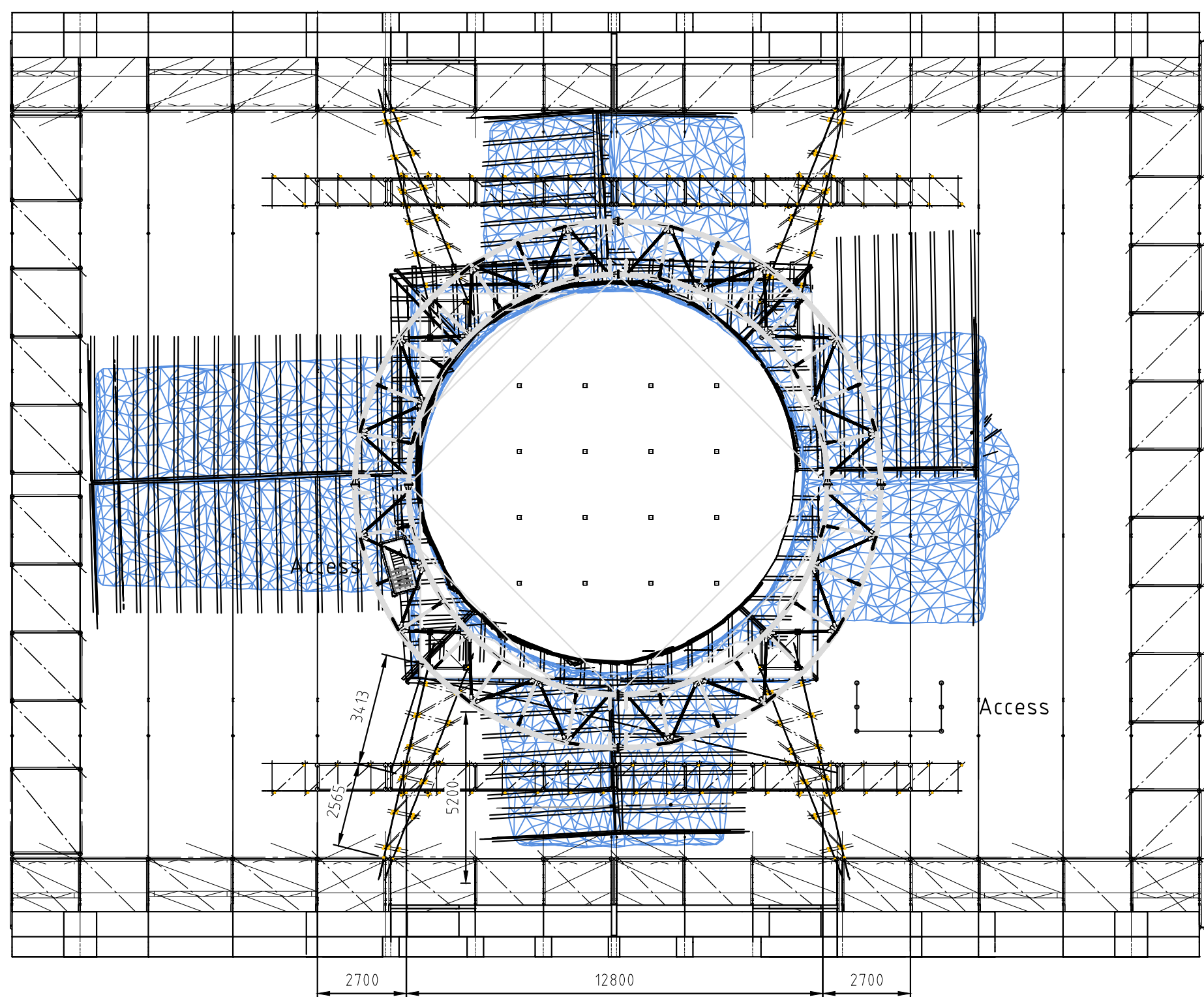
NK+VK=Right Angle Coupler+
additional (class BB)

NB:

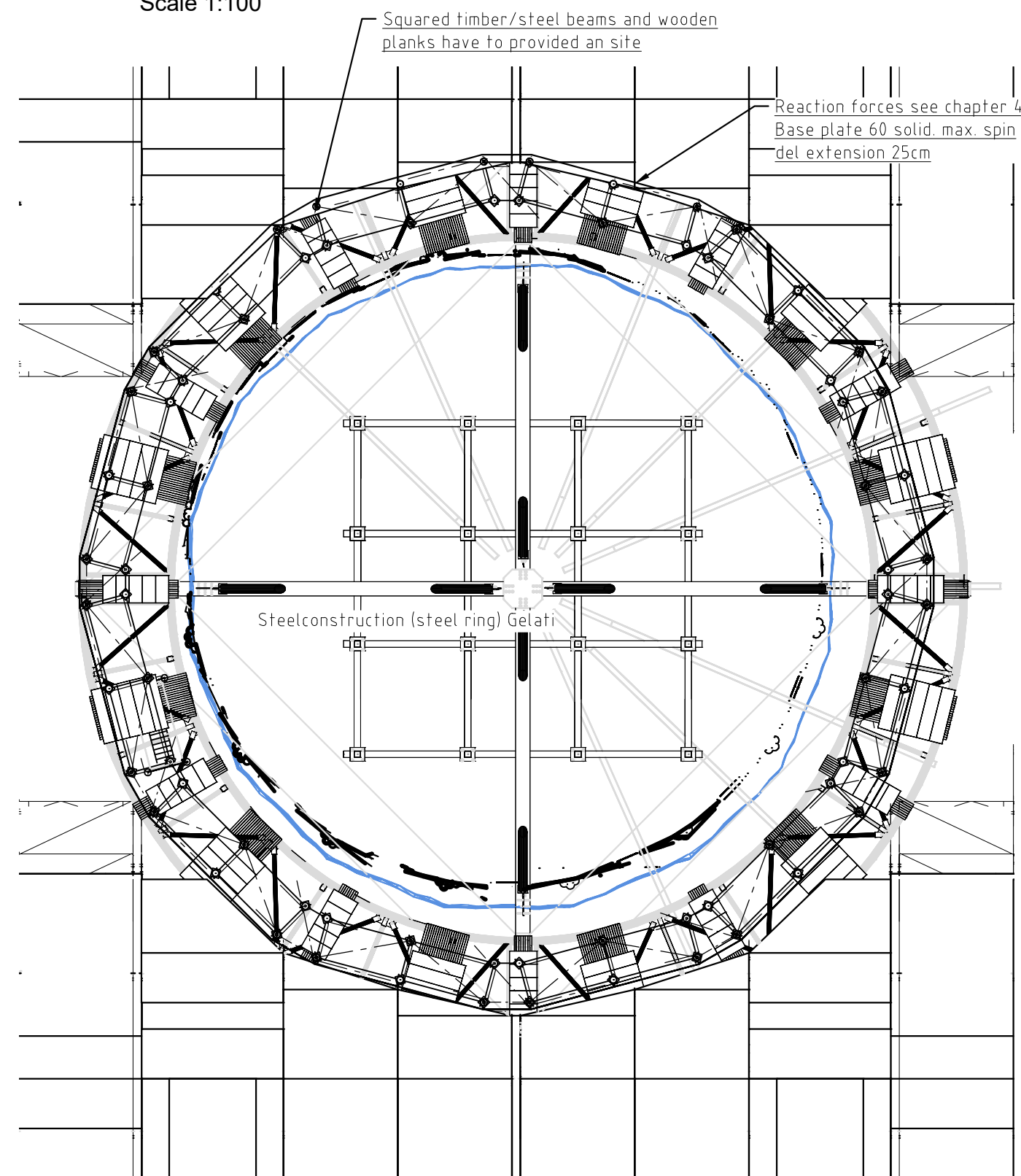
- This drawing was prepared on the basis of the information provided. Statutory compliance and suitability for use to be verified on site.
- Before assembly, structural integrity is to be checked. - Assembly instructions as well as any special instructions in the technical offer are to be adhered to.
- 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.
- Ties, ballast or guylines to be provided as structurally necessary.
- Plan dimensions are centre to centre unless otherwise stated.

- Calculations and load tables for standard applications are available for the roof trusses. - Drainage 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).

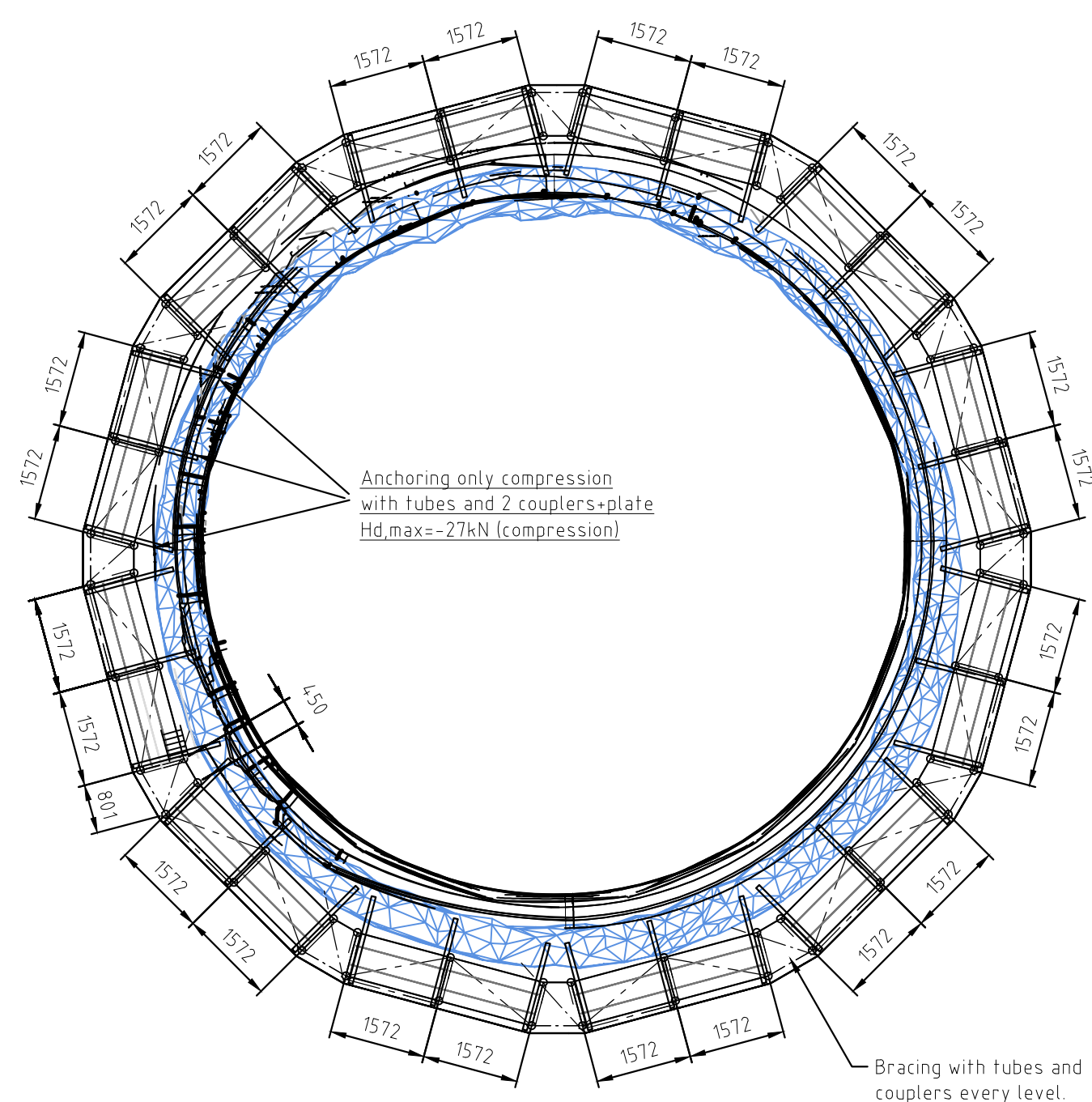
Scale 1:100



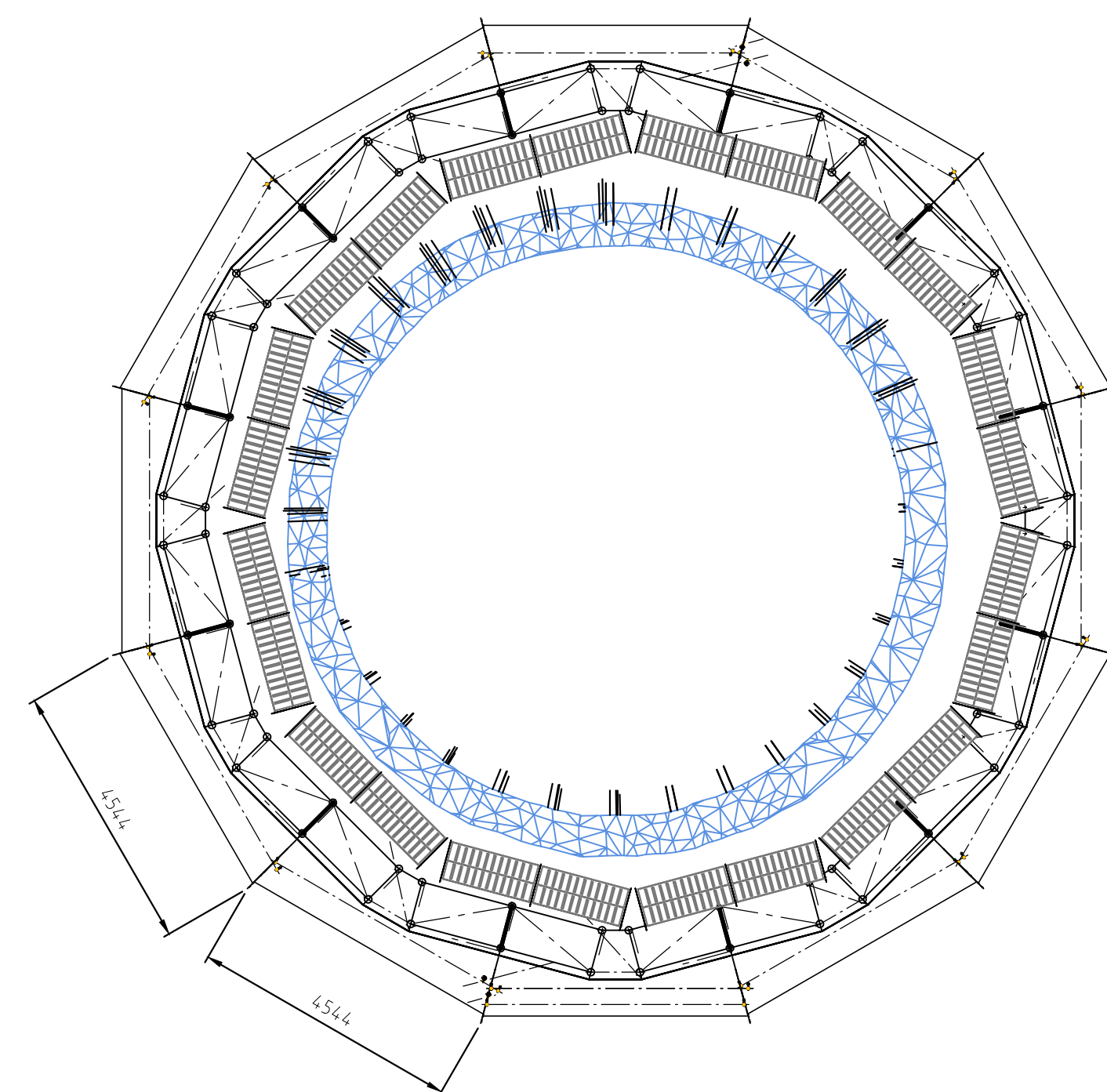
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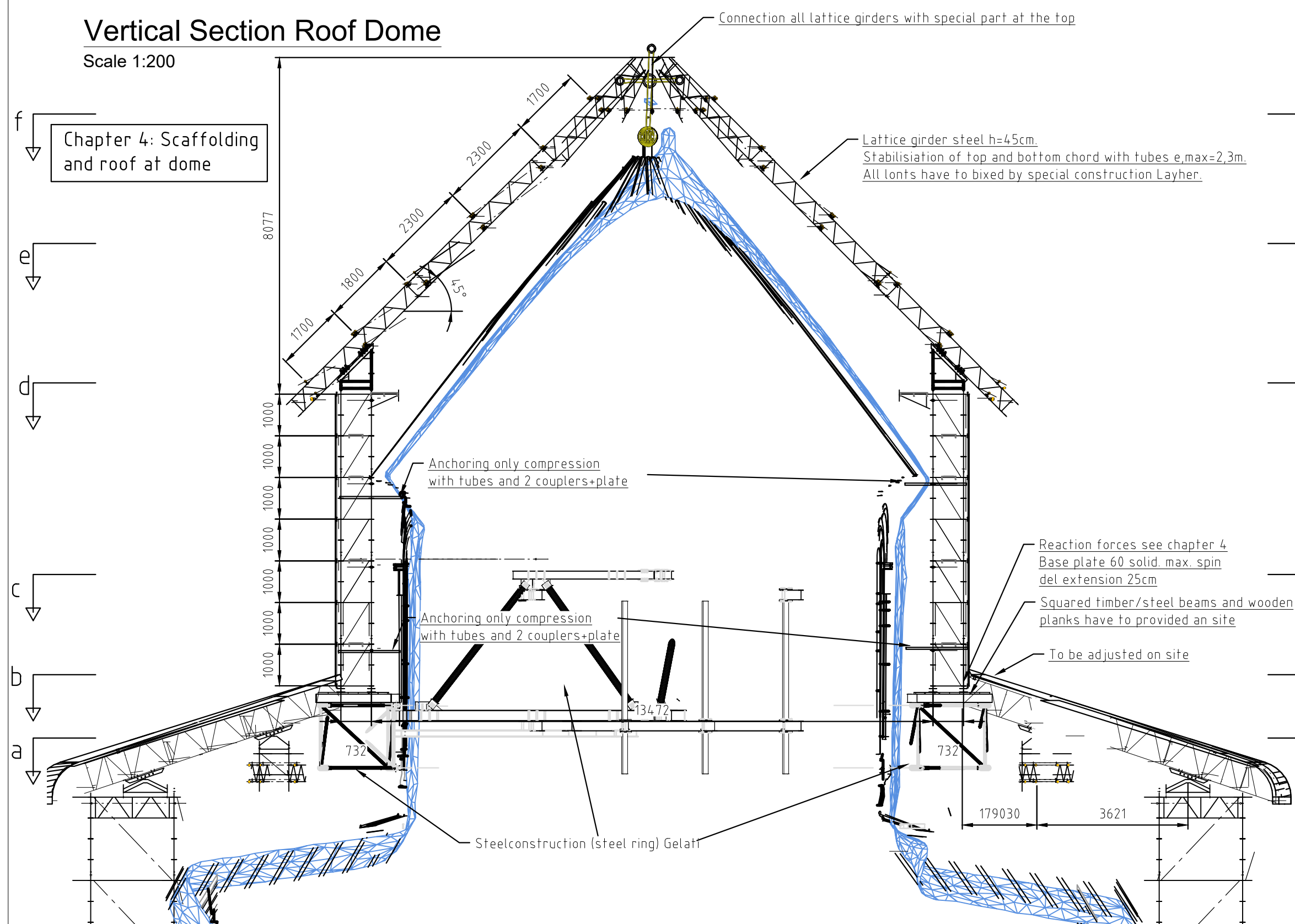
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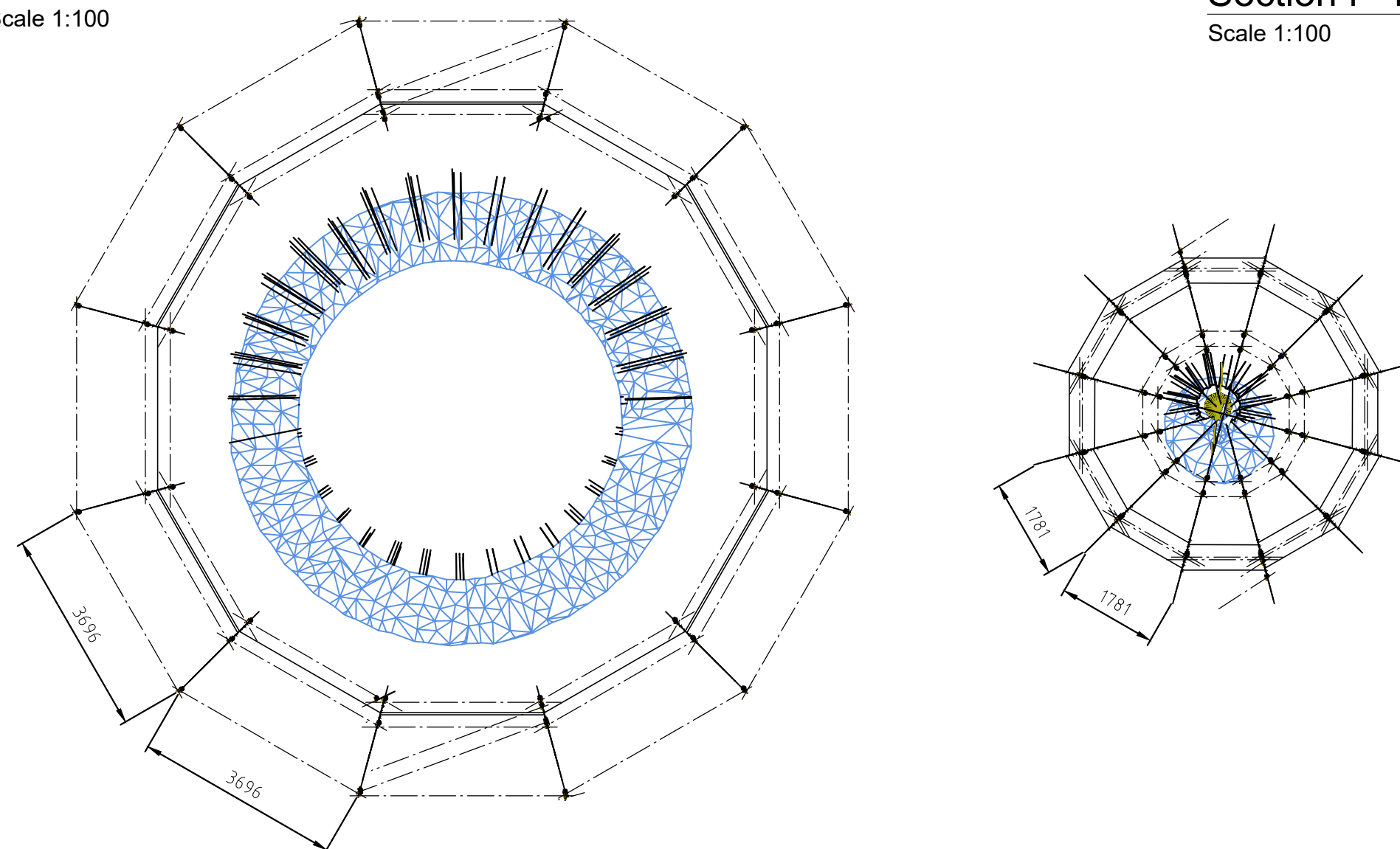
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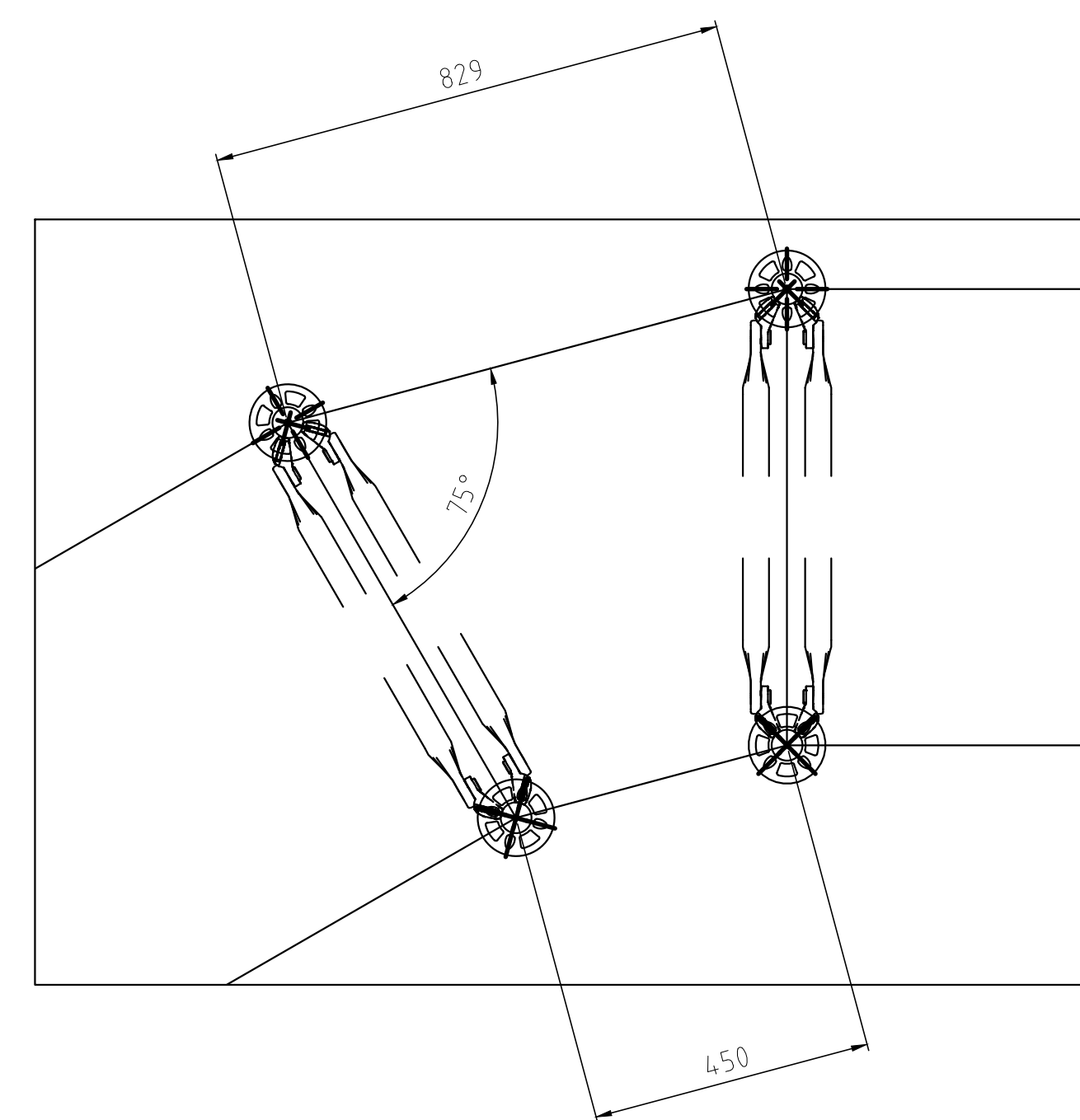
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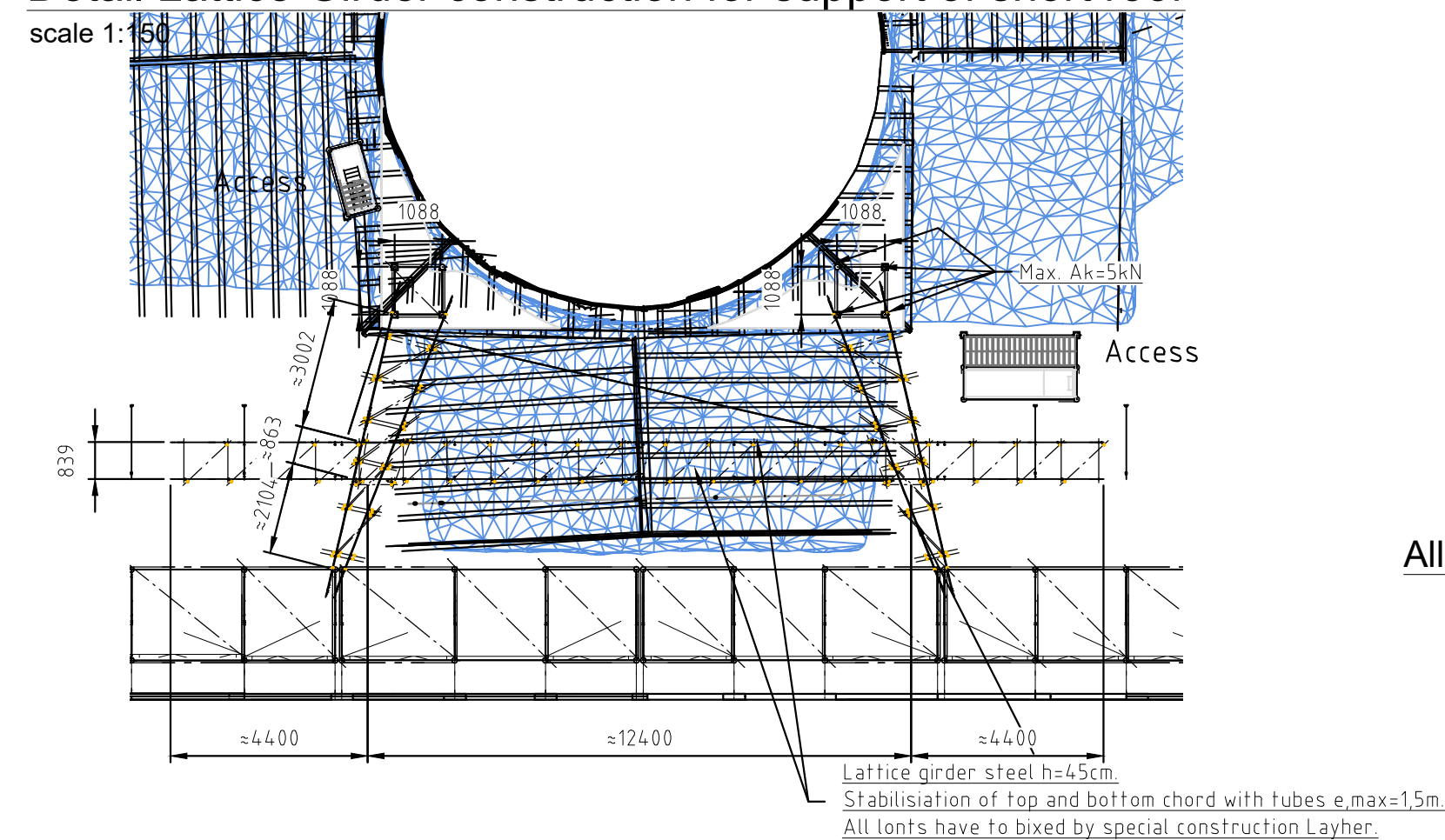
Scale 1:100



Scale 1:100



scale 1:150



Structural engineer Dipl.-Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7066/917841 Fax.: /917849 statik@ing-knobloch.de			
Project:	Monastery of Gelati Temporary Roof		
Principal:	Locum Tenens of Patriarcal Throne of Georgia		
Scale:	ar: VK ch: VK	drawn on: 30.12.24	Project: 23-090 Drawing: 7
Wär			

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.

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Drawn	07.07.2008	SADA, BARROS	More Possibilities. The Surfacting System.		The reproduction, distribution and utilization of this document as well as the communication of its content 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 9001.			
Checked		Wilhelm Layher GmbH & Co KG Postfach 11 D-74361 Göggingen-Ebensbach	Tel.: (0713) 70-0 / Fax 70-309 E-Mail: info@layher.com					
Scale					Drawing No.:			
var -		KD Keder Roof XL Gelafin Monastery						

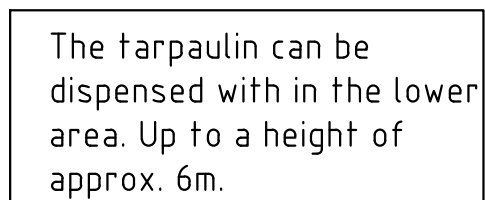
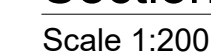
The load bearing capacity of the building and the ground has to be checked on site.

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

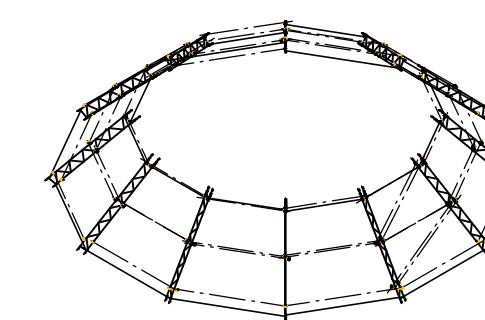
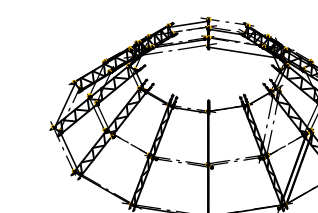
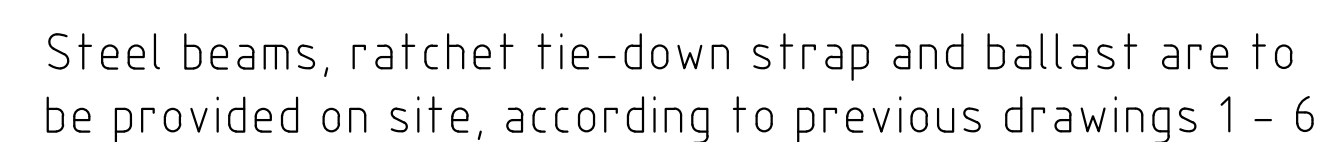
Layher Allround Lightweight
Approval-Nr.:
Z - 8.22 - 939

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

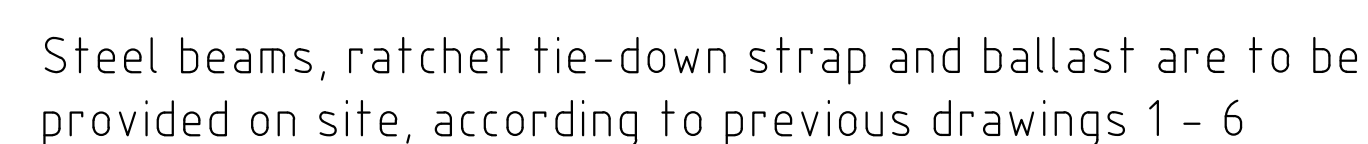
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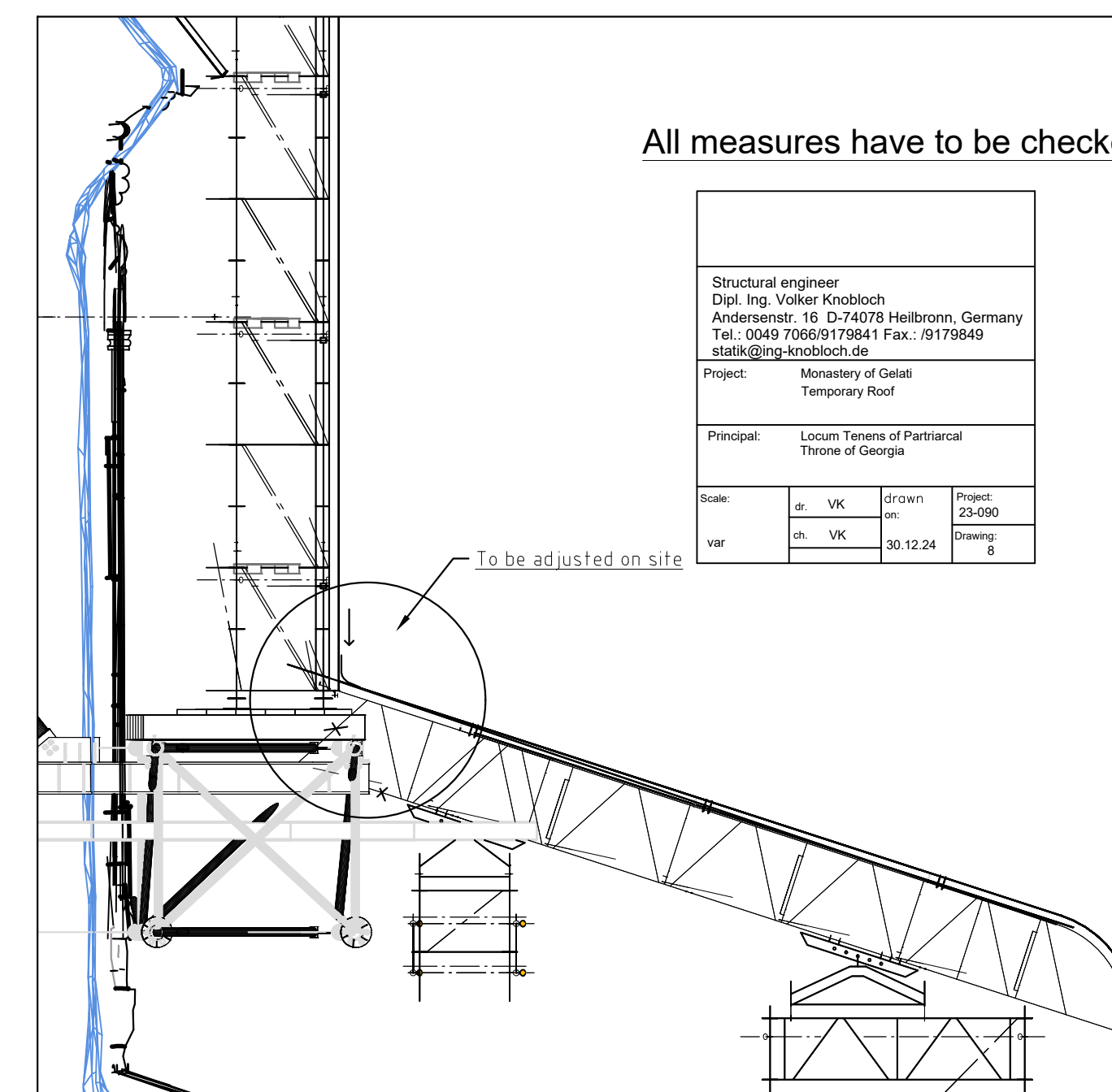
Scale 1:150



Scale 1:150



Structural engineer Dipl. Ing. Volker Knobloch Andersenstr. 16 D-74078 Heilbronn, Germany Tel.: 0049 7066 9179841 Fax.: 9179849 statik@ing-knobloch.de			
Project:	Monastery of Gellati Temporary Roof		
Principal: Locum Tenens of Patriarchal Throne of Georgia			
Scales:	1:50 1:100 1:200 1:400 1:800 1:1600 1:3200 1:6400 1:12800 1:25600 1:51200 1:102400 1:204800 1:409600 1:819200 1:1638400 1:3276800 1:6553600 1:13107200 1:26214400 1:52428800 1:104857600 1:209715200 1:419430400 1:838860800 1:1677721600 1:3355443200 1:6710886400 1:13421772800 1:26843545600 1:53687091200 1:107374182400 1:214748364800 1:429496729600 1:858993459200 1:1717986918400 1:3435973836800 1:6871947673600 1:13743895347200 1:27487790694400 1:54975581388800 1:109951162777600 1:219902325555200 1:439804651110400 1:879609302220800 1:1759218604441600 1:3518437208883200 1:7036874417766400 1:14073748835532800 1:28147497671065600 1:56294995342131200 1:112589990684262400 1:225179981368524800 1:450359962737049600 1:900719925474099200 1:1801439850948198400 1:3602879701896396800 1:7205759403792793600 1:14411518807585587200 1:28823037615171174400 1:57646075230342348800 1:115292150460684697600 1:230584300921369395200 1:461168601842738790400 1:922337203685477580800 1:1844674407370955161600 1:3689348814741910323200 1:7378697629483820646400 1:14757395258967641292800 1:29514790517935282585600 1:59029581035870565171200 1:118059162071741130342400 1:236118324143482260684800 1:472236648286964521369600 1:944473296573929042739200 1:1888946593147858085478400 1:3777893186295716170956800 1:7555786372591432341913600 1:15111572745182864683827200 1:30223145490365729367654400 1:60446290980731458735308800 1:120892581961462917470617600 1:241785163922925834941235200 1:483570327845851669882470400 1:967140655691703339764940800 1:1934281311383406679529881600 1:3868562622766813359059763200 1:7737125245533626718119526400 1:15474250491067253436239052800 1:30948500982134506872478105600 1:61897001964269013744956211200 1:123794003928538027489924422400 1:247588007857076054979848844800 1:495176015714152109959697689600 1:990352031428304219919395379200 1:198070406285660843983890758400 1:396140812571321687967781516800 1:792281625142643375935563033600 1:1584563250285286751871126067200 1:3169126500570573503742252134400 1:6338253001141147007484504268800 1:12676506002282294014969008537600 1:25353012004564588029938017075200 1:50706024009129176059876034150400 1:101412048018258352119752068300800 1:202824096036516704239504136601600 1:405648192073033408479008273203200 1:811296384146066816958016546406400 1:162259276292133363391603092812800 1:324518552584266726783206185625600 1:649037105168533453566412371251200 1:129807421033706790713282462502400 1:259614842067413581426564925004800 1:519229684134827162853129850009600 1:103845936826965432570625960019200 1:207691873653930865141251920038400 1:415383747307861730282503840076800 1:830767494615723460565007680153600 1:166153498923144692113001536307200 1:332306997846289384226003072614400 1:664613995692578768452006145228800 1:1329227991385157536904012704457600 1:2658455982770315073808025408915200 1:5316911965540630147616050817830400 1:10633823931081260295232106355660800 1:21267647862162520590464212711321600 1:42535295724325041180928425422643200 1:85070591448650082361856850845286400 1:17014118289730016472371370169056800 1:34028236579460032944742740338113600 1:68056473158920065889485480676227200 1:136112946317840131778970961352454400 1:272225892635680263557941922704908800 1:544451785271360527115883845409817600 1:108890357054272105423176769081963200 1:217780714108544210846353538163		



	Date	Name	 Layher. <i>More Possibilities. The Scaffold System.</i>
Drawn	26.10.2023	QUESADA	
Checked			

Wilhelm Layher GmbH & Co KG Postfach 40 D-74361 Güglingen-Eibensbach	Tel.: (07135) 70-0 / Fax: 70-711 E-Mail: info@layher.com
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Drawing No.:	8
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