



Fermide projekt 415_21_v3_T, 21/10/2021

Objekti aadress:

Kirtsu küla, Peipsiääre vald

Projekti sisu:

Projekt sisaldab fermide jooniseid koos arvutustulemustega, 3D vaateid ning fermide laotist. Konkreetseid kinnitustahendeid, jäigastussidemeid ja toekohad ei ole käesoleva projektiga lahendatud.

Fermid on projekteeritud toimima kõige optimaalsemal kujul kliendi etteantud lähtandmete põhjal. Lõplikus fermide lahenduses on arvestatud ka vajalike tugevusvarudega koormuskombinatsioonides.

Materjalid:

Tootmiseks kasutatakse tugevussorteeritud puitu C24 laiusega 45 mm ja 1.3 mm paksuseid kuumtsingitud ogaplaate TOP-W.

Konstruksioonid:

Fermide koostoimivus muude hoone konstruktsioonidega ei ole projekteeritud AMV GRUPP OÜ poolt. Fermide projekt eeldab, et seda teeb tellija, ehitaja või hoone projekteerija.

Muudatused fermidele:

Ferme ei ole lubatud lõigata, neisse auke puurida ega teostada mingeid muid modifikatsioone ilma fermide projekteerijaga kooskõlastamast (v.a projektiga ettenähtud lõiked, puurimised jne.) Sobivate kinnitustahendite kasutamine on lubatud. Fermid peavad olema paigaldatud fermide projektis määratud sammuga.

Kandvad aluskonstruktsioonid:

Joonistel olevad seinad, postid ja talad on arvestatud kandvateks.

Toote sobivuse kinnitus:

Enne fermide tootmist on tellija kohustatud kontrollima fermide projekti ning kinnitama AMV GRUPP OÜ-le, et projektis olev olukord on kooskõlas tema soovide, vajaduste ja võimalustega. Tellija peab olema veendunud, et ehitusobjektil olev olukord võimaldab pakutud ferme sinna transportida ja paigaldada.

Tootmistolerantsid (EVS-EN 14250:2010):

Gabariitmõõdud kuni 10 m: ± 10 mm

Gabariitmõõdud üle 10 m: ± 1 mm/m

Sama partii piires lubatud kõikumine kuni 10 mm.

Koormused:

- Katuse omakaal: 250 N/m²
- Vahelae omakaal: 600 N/m²
- Lumi: 1500 N/m²
- Tuul: 587 N/m²
- Pööningu kasusk: 500 N/m²

Määratakse alas, kus vööde vaheline kõrgus >600mm

- Eluruumi kasusk*: 2000 N/m²
- Põranda omakaal*: 450 N/m²
- Pööningulagi*: 600 N/m²
- Pööningukaldlagi*: 600 N/m²
- Pööningusein*: 500 N/m²

(* - rakendub eluruumi või hoiustamiseks mõeldud pööninguruumi olemasolul).

Katuseroovide valik (Eesti tingimustes):

Kivikatus:

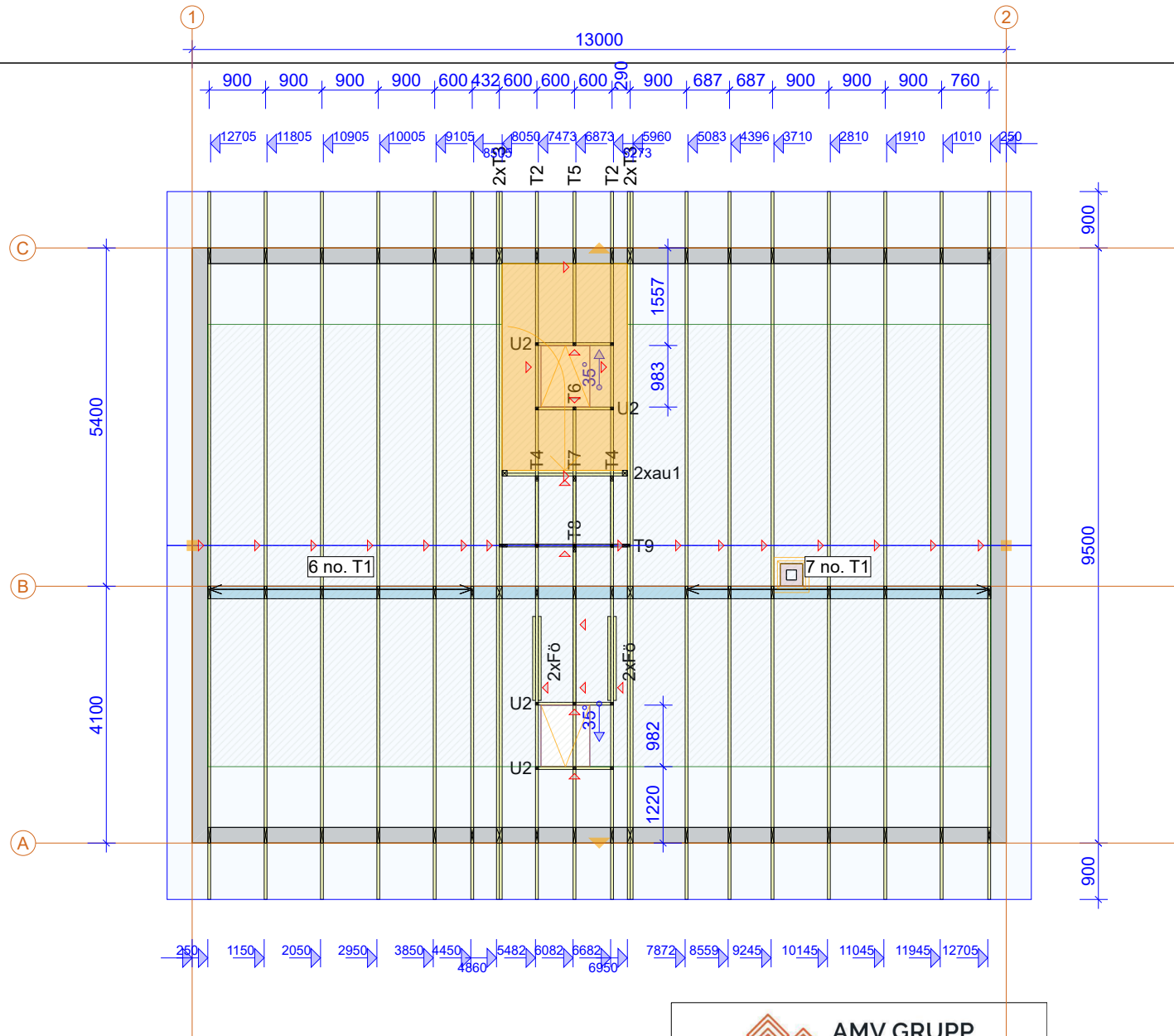
Fermide samm	Mõõt
kuni 900 mm	45x45 mm
900 - 1200 mm	45x70 mm
1200 mm ja rohkem	45x95 mm

Plekk-katus:

Fermide samm	Mõõt
kuni 900 mm	22x100 mm
900 - 1200 mm	32x100 mm
1200 mm ja rohkem	50x100 mm

Roovituse samm ja lõplik ristlõige valida vastavalt katusekatte paigaldamise juhendile.

T1 - 13 no.
T2 - 2 no.
T3 - 2 no. 2-ply
T4 - 2 no.
T5 - 1 no.
T6 - 1 no.
T7 - 1 no.
T8 - 1 no.
T9 - 1 no.
U2 - 4 no.
au1 - 1 no. 2-ply



AMV GRUPP
fermid kogu eluks

Kuusikuveere mü, Tila küla, Tartu vald, Tartu maakond

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Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer Triinu Orm

Supervisor

Main engineer

Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:

415_21_v3_T

Mark:

Revision:

Page no:

1/1

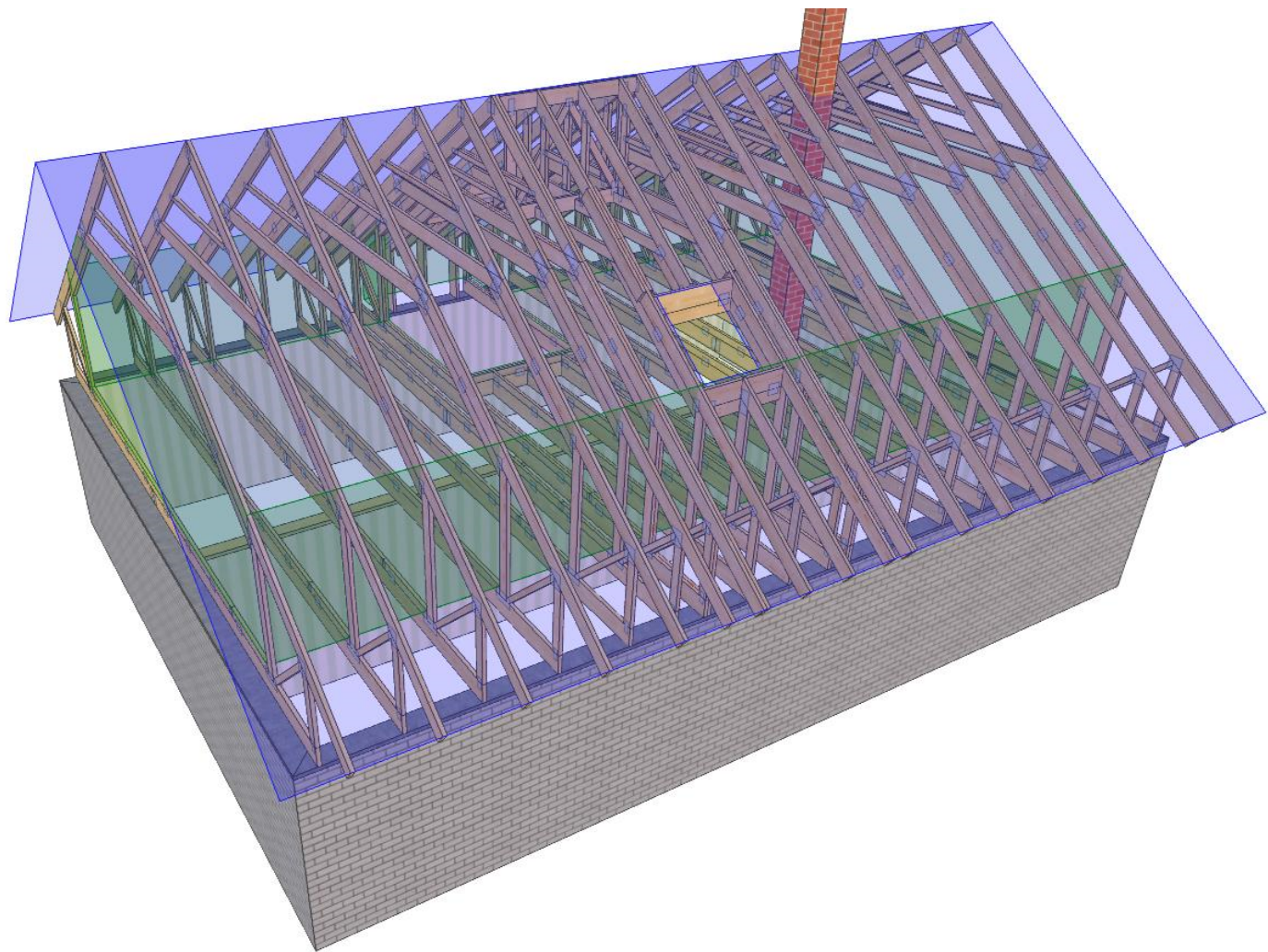
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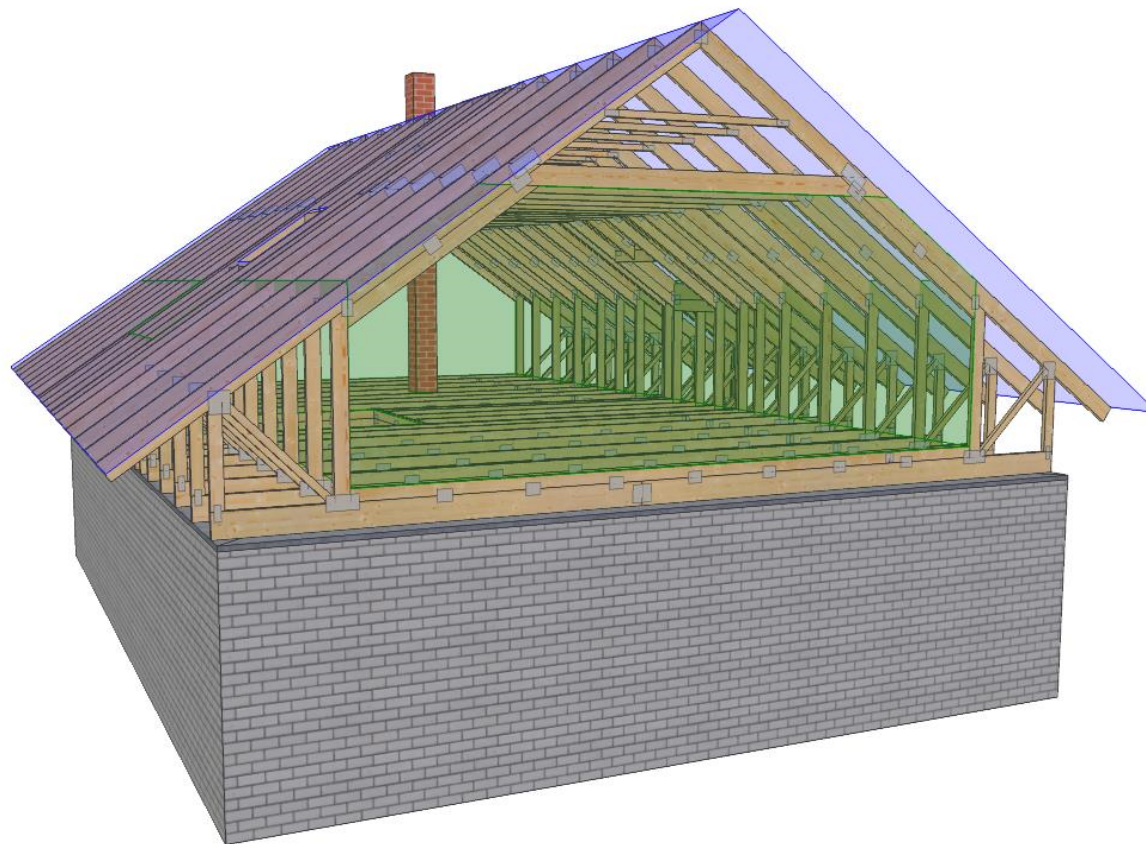
1/3

Scale:

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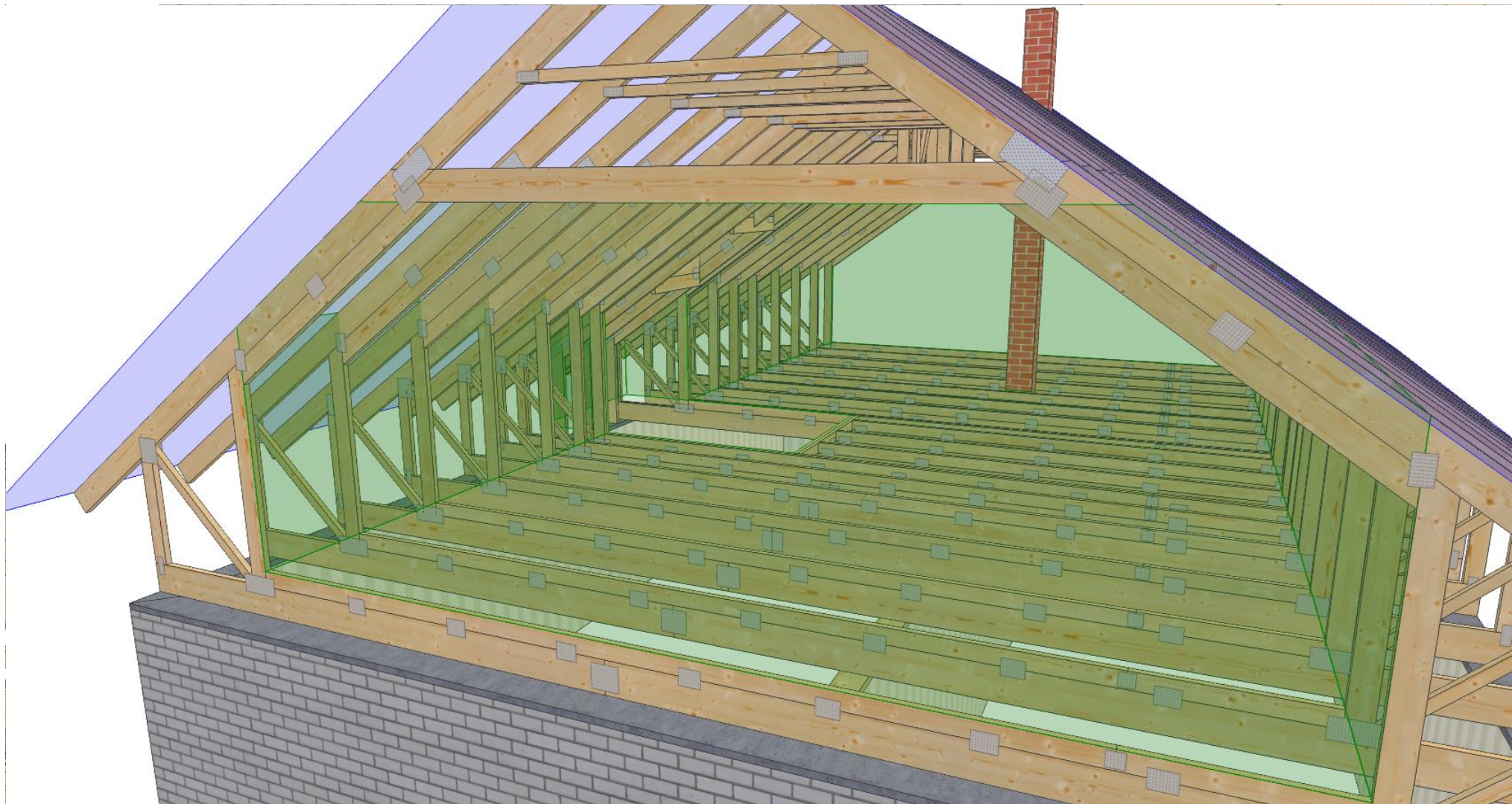
2/3

Scale:

Date:

Page no:

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Mark:

Revision:

Page no:

3/3

Scale:

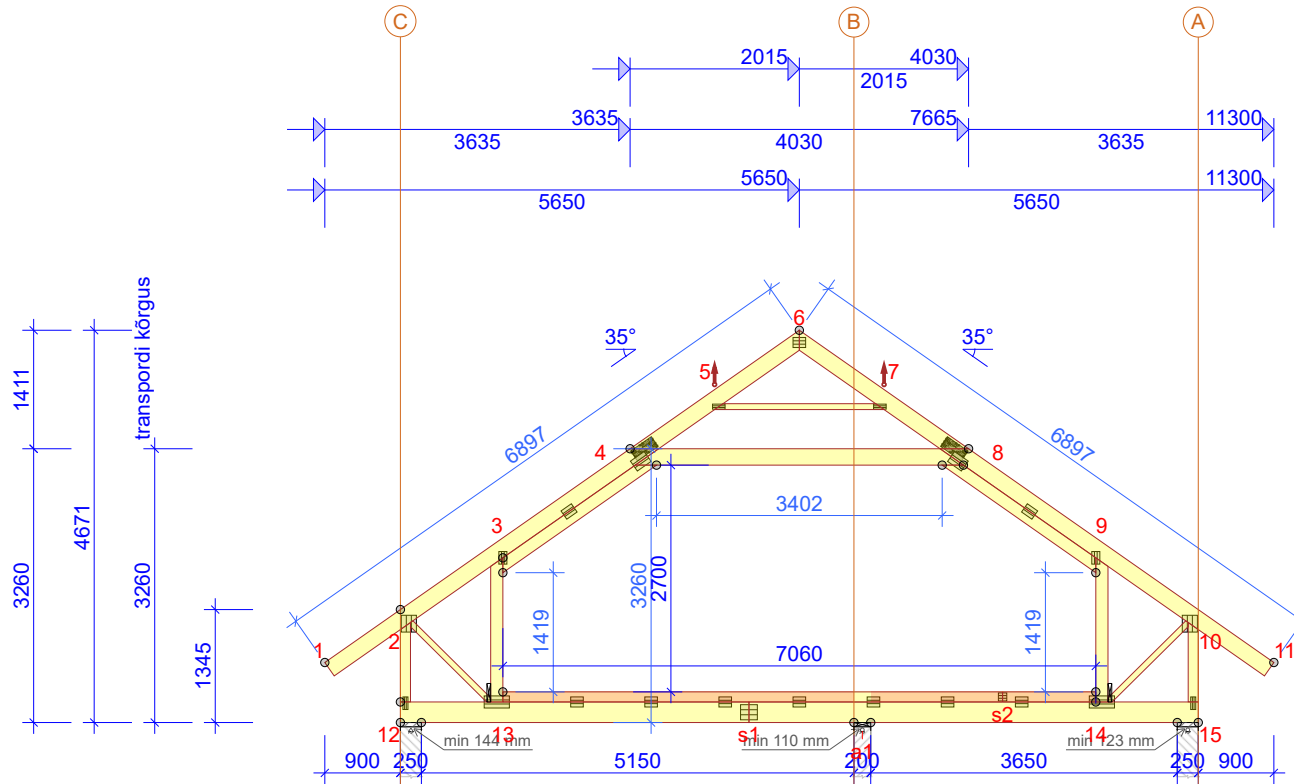
Date:

Page no:

21/10/2021

T1a - 11 no. 1-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-4	195	C24	400	45
3-4	145	C24		11
4-6	195	C24	400	14
6-8	195	C24	400	12
8-9	145	C24		16
8-11	195	C24	400	59
12-15	245	C24	600	67
13-14	120	C24		59
2-12	120	C24	None	52
10-15	120	C24	None	48
4-8	195	C24	Sheeting	35
3-13	145	C24	None	31
9-14	145	C24	None	42
5-7	70	C24	None	35
2-13	70	C24	None	42
10-14	70	C24	None	43
LOAD DISTRIBUTING FLOOR OSB 3 22MM OR EQUIV. INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL				

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	180	200	71
3	TOP-W	96	150	80
4:1	TOP-W	144	200	56
4:3	TOP-W	120	150	36
5	TOP-W	60	150	39
6	TOP-W	120	150	12
7	TOP-W	60	150	39
8:1	TOP-W	144	200	82
8:3	TOP-W	120	150	36
9	TOP-W	96	150	80
10	TOP-W	180	200	69
12:1	TOP-W	60	150	87
12:2	TOP-W	120	150	37
12:3	TOP-W	120	150	37
12:4	TOP-W	120	150	47
13	TOP-W	144	300	75
14:1	TOP-W	144	300	76
14:2	TOP-W	120	150	43
15:1	TOP-W	60	150	81
15:2	TOP-W	120	150	37
15:3	TOP-W	120	150	37
15:4	TOP-W	120	150	69

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
4:2	MHP20	140	300	55
8:2	MHP20	140	300	44
s1	TOP-W	180	200	56
s2	TOP-W	96	100	66

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Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm):	45
TRUSS WEIGHT (kg/ply):	190
TRUSS CENTRES (mm):	900
LOAD SHARING FACTOR:	1.1
SERVICE CLASS:	2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :	
INSPECTA CERTIFIICINT OY	
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01	
BRACING: SEE TIMBER TABLE	

LOADS (N/m²)

SNOW ZONE:	1.5
SNOW LOAD (Sk):	1500 N/m²
WIND LOAD (qp(z)):	587 N/m²
LIVE LOAD OUTSIDE ROOM:	500
LIVE LOAD INSIDE ROOM:	2000
LIVE LOAD ON COLLAR:	500
DEAD LOAD ON WALL:	300
DEAD LOAD ON ROOF:	250
DEAD LOAD ON OVERHANG UNDERSIDE:	200
DEAD LOAD ON CEILING:	600
DEAD LOAD ON ATTIC CEILING:	600
DEAD LOAD ON ATTIC ROOM VERTICAL:	500
DEAD LOAD ON ATTIC SLOPING CEILING:	600
DEAD LOAD ON ATTIC FLOOR:	450
SELF-WEIGHT ADDED	

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
12	HOR.	0	0	0	-3273	-	
12	VER.	10206	20865	13057	21897	4431	144
15	VER.	9308	18698	12132	19410	3743	123
s1	VER.	5765	17429	13853	13967	4131	110

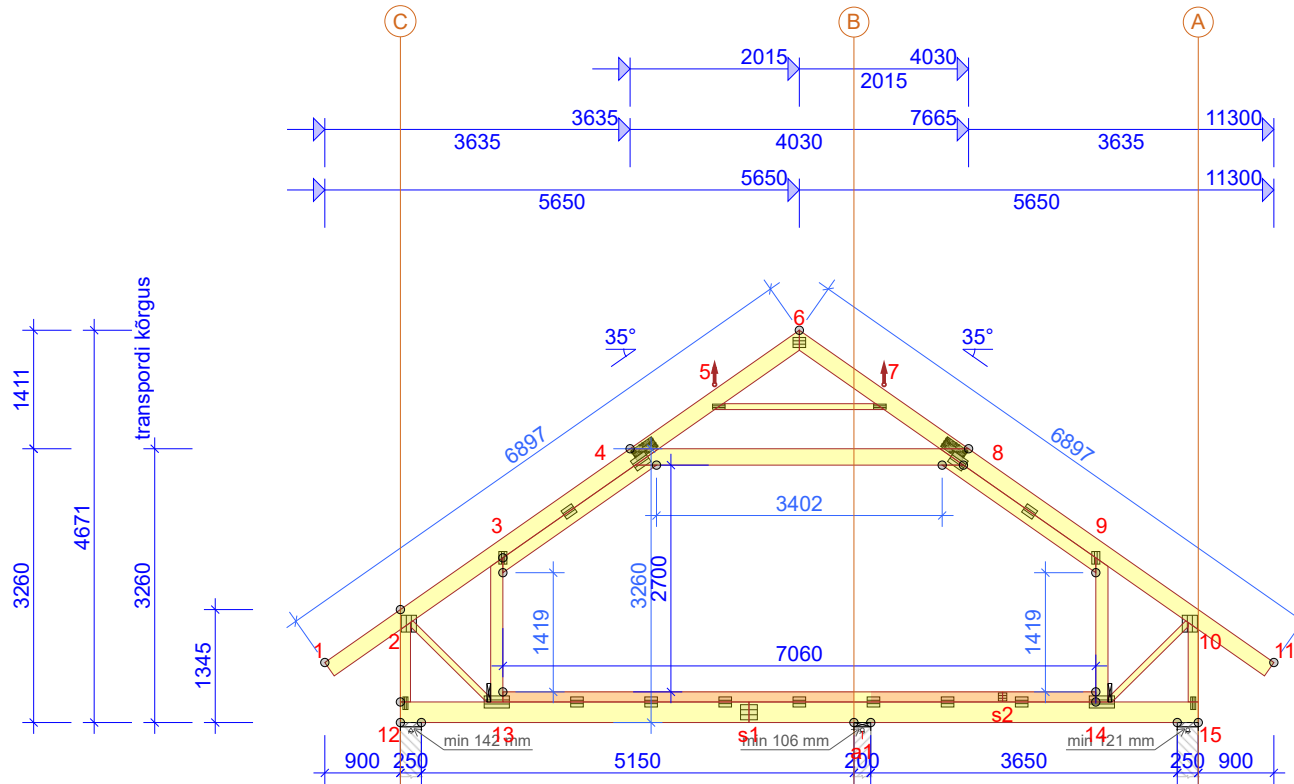
MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
s2-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
s1-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
4	9.3	9.4	1008:3:1 (Winst)
FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT			

Project no:	415_21_v3_T
Mark:	T1
Revision:	
Page no:	1/3
Scale:	1:90
Date:	21/10/2021
Page no:	

T1b - 1 no. 1-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-4	195	C24	400	45
3-4	145	C24		12
4-6	195	C24	400	14
6-8	195	C24	400	12
8-9	145	C24		16
8-11	195	C24	400	48
12-15	245	C24	600	67
13-14	120	C24		59
2-12	120	C24	None	51
10-15	120	C24	None	47
4-8	195	C24	Sheeting	34
3-13	145	C24	None	31
9-14	145	C24	None	41
5-7	70	C24	None	34
2-13	70	C24	None	41
10-14	70	C24	None	43
LOAD DISTRIBUTING FLOOR OSB 3 22MM OR EQUIV. INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL				

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	180	200	70
3	TOP-W	96	150	80
4:1	TOP-W	144	200	57
4:3	TOP-W	120	150	36
5	TOP-W	60	150	39
6	TOP-W	120	150	12
7	TOP-W	60	150	39
8:1	TOP-W	144	200	82
8:3	TOP-W	120	150	36
9	TOP-W	96	150	80
10	TOP-W	180	200	68
12:1	TOP-W	60	150	85
12:2	TOP-W	120	150	37
12:3	TOP-W	120	150	37
12:4	TOP-W	120	150	47
13	TOP-W	144	300	74
14:1	TOP-W	144	300	74
14:2	TOP-W	120	150	43
15:1	TOP-W	60	150	80
15:2	TOP-W	120	150	37
15:3	TOP-W	120	150	37
15:4	TOP-W	120	150	69

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
4:2	MHP20	140	300	55
8:2	MHP20	140	300	44
s1	TOP-W	180	200	55
s2	TOP-W	96	100	65

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Designer	Triinu Orm
Supervisor	
Main engineer	
Cert. no	0416-CPD-7036-01

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INSPECTA CERTIFIJOINT OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD OUTSIDE ROOM: 500
LIVE LOAD INSIDE ROOM: 2000
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON WALL: 300
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ROOF: 250
DEAD LOAD ON OVERHANG UNDERSIDE: 200
DEAD LOAD ON ATTIC CEILING: 600
DEAD LOAD ON ATTIC ROOM VERTICAL: 500
DEAD LOAD ON ATTIC SLOPING CEILING: 600
DEAD LOAD ON ATTIC FLOOR: 450
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
12	HOR.	0	0	0	-3241	-	
12	VER.	10187	20968	12947	21300	4441	142
15	VER.	9220	18479	12023	19192	3702	121
s1	VER.	5621	10865	13487	13644	4017	106

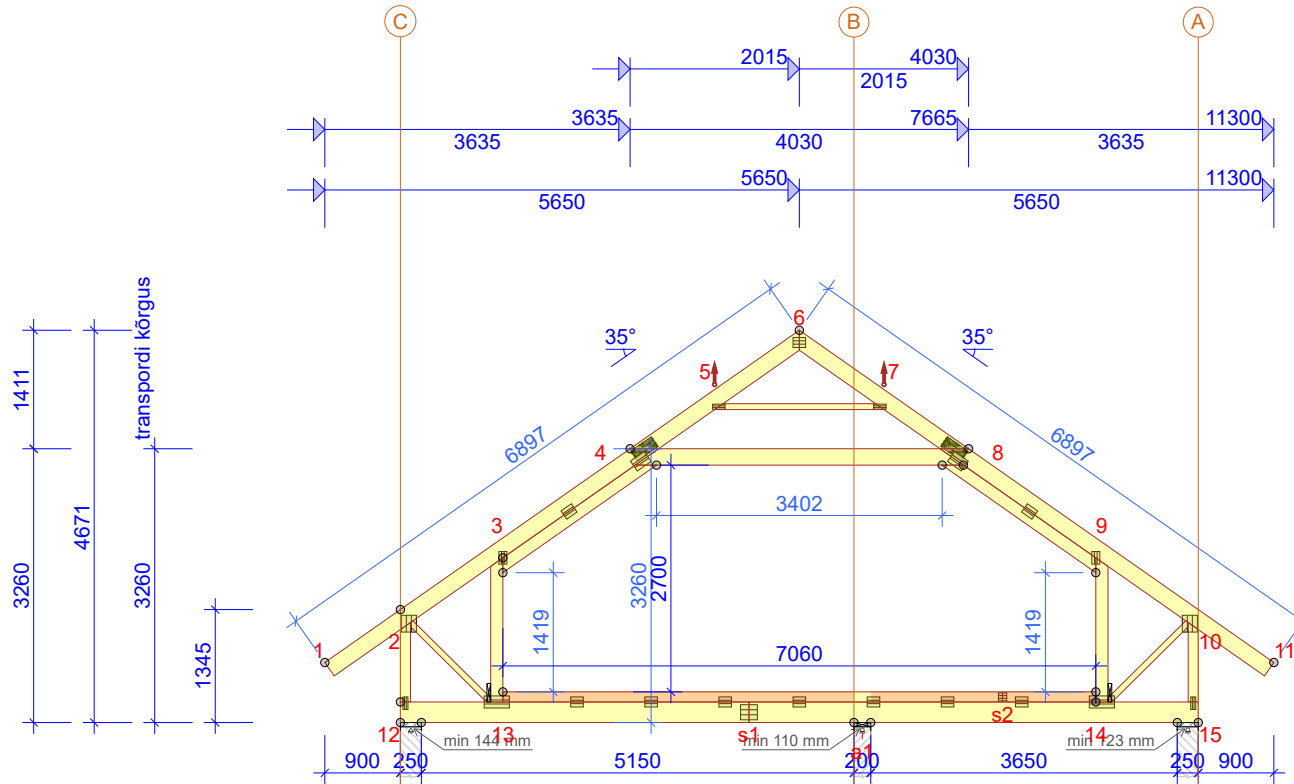
MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
s2-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
s1-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
4	9.2	9.4	1008:3:1 (Winst)
FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT			

Project no:	415_21_v3_T
Mark:	T1
Revision:	
Page no:	2/3
Scale:	1:90
Date:	21/10/2021
Page no:	

T1c - 1 no. 1-ply

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DEAD LOAD ON ATTIC FLOOR: 450
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
12	HOR.	0	0	0	-3270	-	-
12	VER.	10258	20845	13046	21477	4432	144
15	VER.	9209	18676	12122	10389	3739	123
a1	VER.	5751	17383	13817	13862	4120	110

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
s2-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
s1-13	9.8	0.3	1006:6:1:0 (Wfin (frequent))
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JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
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3-4	145	C24		11
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8-11	195	C24	400	59
12-15	245	C24	600	67
13-14	120	C24		59
2-12	120	C24	None	52
10-15	120	C24	None	48
4-8	195	C24	Sheeting	35
3-13	145	C24	None	31
9-14	145	C24	None	42
5-7	70	C24	None	35
2-13	70	C24	None	42
10-14	70	C24	None	43

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	180	200	71
3	TOP-W	96	150	80
4:1	TOP-W	144	200	56
4:3	TOP-W	120	150	36
5	TOP-W	60	150	39
6	TOP-W	120	150	12
7	TOP-W	60	150	39
8:1	TOP-W	144	200	82
8:3	TOP-W	120	150	36
9	TOP-W	96	150	80
10	TOP-W	180	200	69
12:1	TOP-W	60	150	86
12:2	TOP-W	120	150	37
12:3	TOP-W	120	150	37
12:4	TOP-W	120	150	47
13	TOP-W	144	300	75
14:1	TOP-W	144	300	75
14:2	TOP-W	120	150	43
15:1	TOP-W	60	150	81
15:2	TOP-W	120	150	37
15:3	TOP-W	120	150	37
15:4	TOP-W	120	150	69

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
4:2	MHP20	140	300	55
8:2	MHP20	140	300	44
s1	TOP-W	180	200	56
s2	TOP-W	96	100	65

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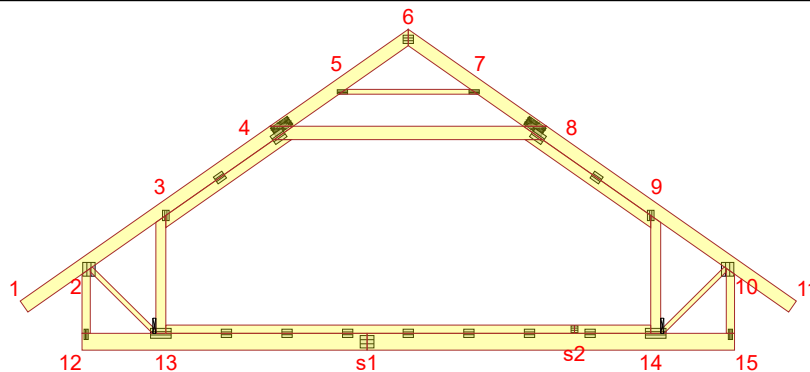
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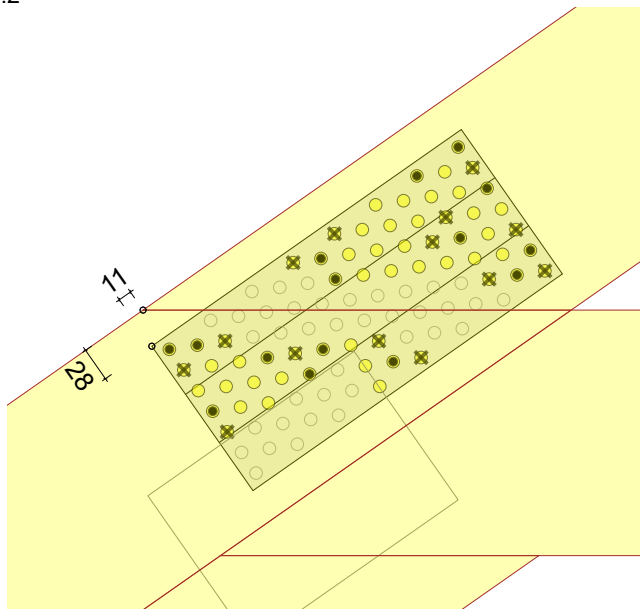
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Mark:	T1
Revision:	
Page no:	3/3
Scale:	1:90
Date:	21/10/2021
Page no:	

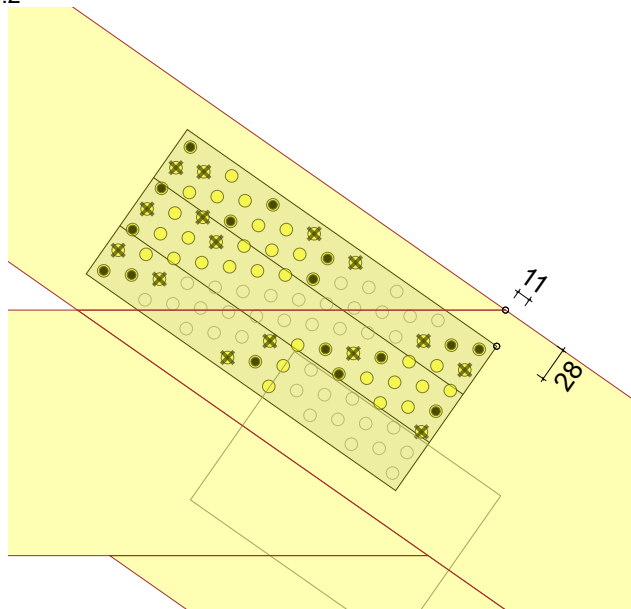
T1



4:2



8:2



MHP20 140x300

NAIL: 7+8 NO. RINGED NAIL 4 X 40 / SIDE

55%

SCALE 1:6

MHP20 140x300

NAIL: 9+7 NO. RINGED NAIL 4 X 40 / SIDE

44%

SCALE 1:6

FASTENER LOCATION TOLERANCE: 8 mm



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Supervisor

Main engineer

Cert. no

0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:

415 21_v3_T

Mark:

T1

Revision:

Page no:

1/1

Scale:

1:110

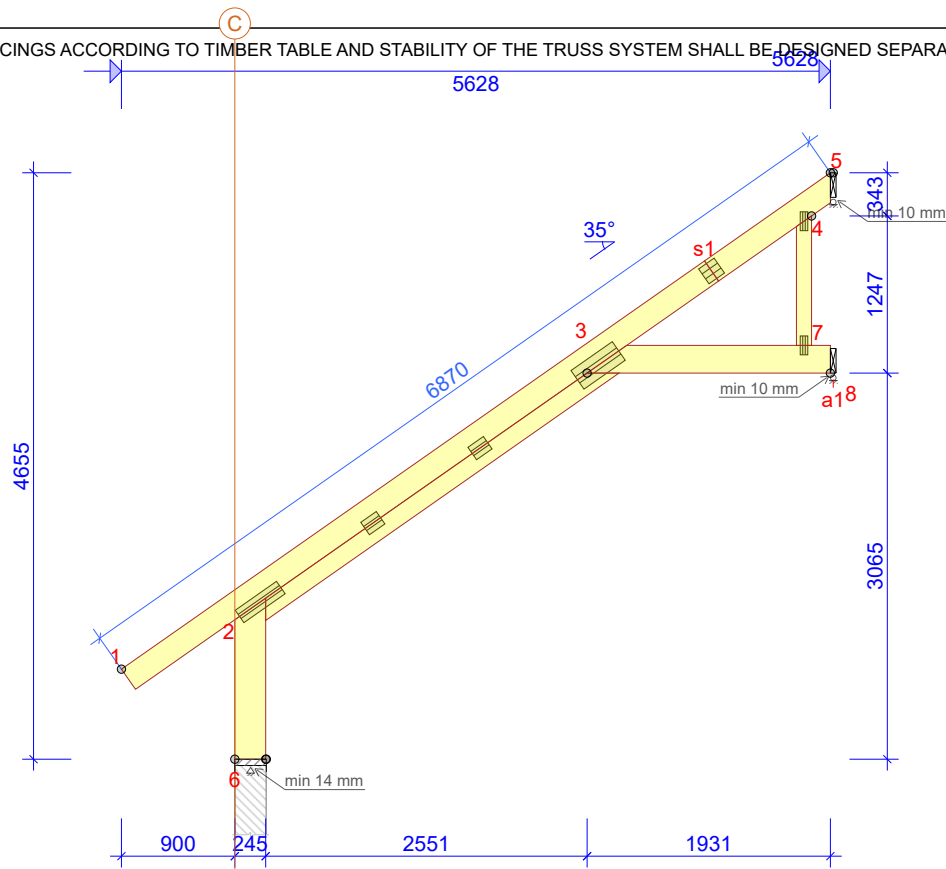
Date:

21/10/2021

Page no:

T2 - 2 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



TIMBER THICKNESS 45 mm

[illegible]

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL

JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2:1	TOP-W	120	400	54
2:2	TOP-W	120	150	38
2:3	TOP-W	120	150	26
3	TOP-W	180	400	74
4	TOP-W	60	150	53
7	TOP-W	60	150	38

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES

JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CS %
s1	TOP-W	144	150	36

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Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

0416-CPD-7036-01

GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR".

AMV-Grupp OY - LICENSE: 15

DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009

FULL DESIGNER RESULTS (To go): PER CALC. PRINTOUT

TRUSS CENTRES (mm):

LOAD SHARING FACTOR:

SERVICE CLASS: 2 = 65% <= RH < 85%

THE TRUSS PLANT IS CONTROLLED BY :

INSPECTA CERTIFICATA OY

PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01

BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE:	1.5
SNOW LOAD (Sk):	1500 N/m²
WIND LOAD (qp(z)):	587 N/m²
LIVE LOAD ON COLLAR:	500
DEAD LOAD ON WALL:	300
DEAD LOAD ON ATTIC ROOM VERTICAL:	500
DEAD LOAD ON ROOF:	250
DEAD LOAD ON OVERHANG UNDERSIDE:	200
DEAD LOAD ON CEILING:	600
DEAD LOAD ON ATTIC CEILING:	600
DEAD LOAD ON ATTIC SLOPING CEILING:	600
OTHER LOADS AS PER CALC. PRINT-OUT	
SELF-WEIGHT ADDED	

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
5	VER.	-106	-353	-9	266	-483	10
6	HOR.	0	0	0	2009	-	
6	VER.	3984	7374	6251	6871	1508	14
a1	VER.	2689	5506	3066	5796	-878	10

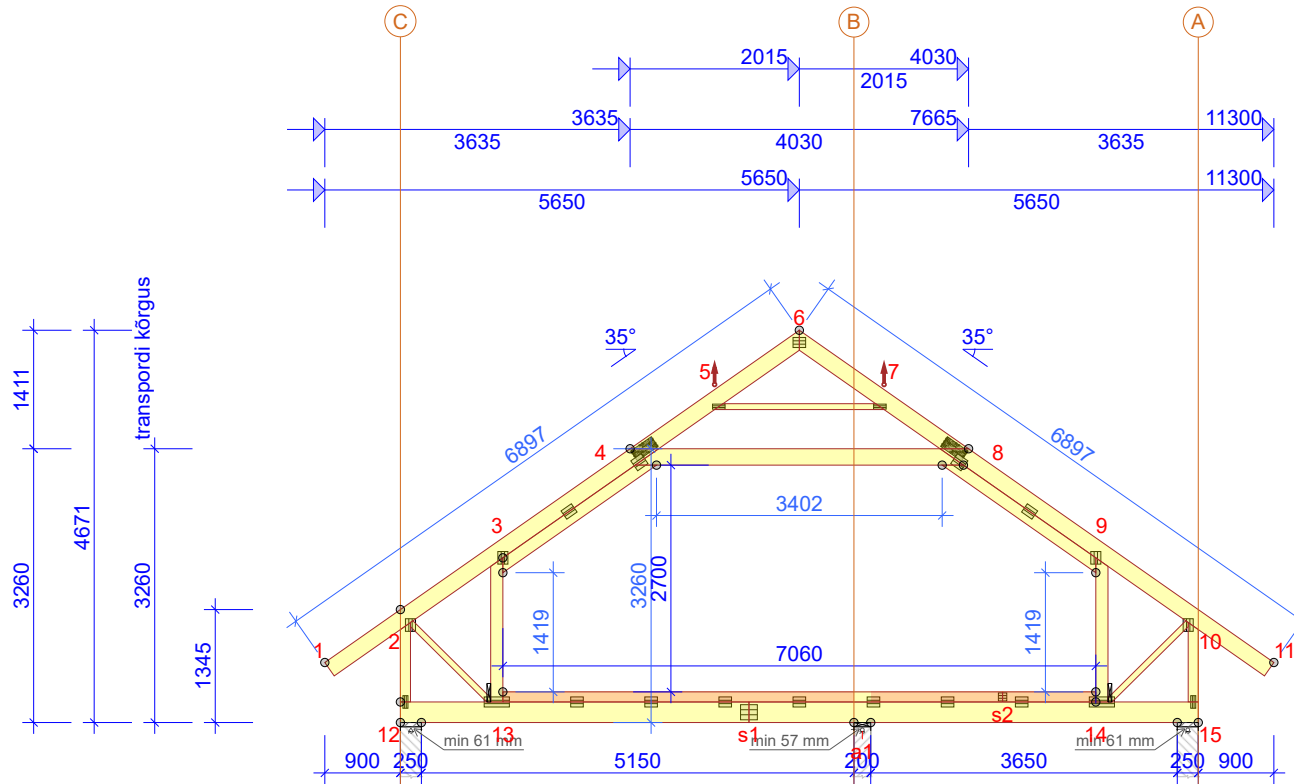
MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
3	13.5	17.4	1001:1:6 (Wfin (frequent))
2-3	13.2	17.5	1001:1:6 (Wfin (frequent))
2-3	13.2	17.6	1001:1:6 (Wfin (frequent))
FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT			

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

T3a - 1 no. 2-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



TIMBER		THICKNESS 45 mm	2 NO. OF PLY	
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-4	195	C24	400	54
3-4	145	C24		13
4-6	195	C24	400	12
6-8	195	C24	400	12
8-9	145	C24		15
8-11	195	C24	400	57
12-15	245	C24	600	32
13-14	120	C24		27
2-12	120	C24	None	40
10-15	120	C24	None	40
4-8	195	C24	Sheeting	58
3-13	145	C24	None	31
9-14	145	C24	None	32
5-7	70	C24	None	10
2-13	70	C24	None	31
10-14	70	C24	None	31

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	120	150	76
3	TOP-W	120	150	61
4:1	TOP-W	144	150	59
4:3	TOP-W	120	150	36
5	TOP-W	60	150	39
6	TOP-W	120	150	14
7	TOP-W	60	150	39
8:1	TOP-W	144	150	70
8:3	TOP-W	120	150	36
9	TOP-W	120	150	65
10	TOP-W	120	150	76
12:1	TOP-W	60	150	64
12:2	TOP-W	120	150	37
12:3	TOP-W	120	150	37
12:4	TOP-W	120	150	47
13	TOP-W	120	300	68
14:1	TOP-W	120	300	68
14:2	TOP-W	120	150	43
15:1	TOP-W	60	150	64
15:2	TOP-W	120	150	37
15:3	TOP-W	120	150	37
15:4	TOP-W	120	150	37

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
4:2	MHP20	140	300	70
8:2	MHP20	140	300	68
s1	TOP-W	180	200	30
s2	TOP-W	96	100	34

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Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm):	45
TRUSS WEIGHT (kg/ply):	189
MAXIMUM HANDLING WEIGHT (kg):	377
TRUSS CENTRES (mm):	900
LOAD SHARING FACTOR:	1.1
SERVICE CLASS:	2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY:	
INSPECTA CERTIFIIOINTI OY	
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01	
BRACING: SEE TIMBER TABLE	

LOADS (N/m²)

SNOW ZONE:	1.5
SNOW LOAD (Sk):	1500 N/m²
WIND LOAD (qp(z)):	587 N/m²
LIVE LOAD OUTSIDE ROOM:	500
LIVE LOAD INSIDE ROOM:	2000
LIVE LOAD ON COLLAR:	500
DEAD LOAD ON WALL:	300
DEAD LOAD ON CEILING:	600
DEAD LOAD ON ROOF:	250
DEAD LOAD ON OVERHANG UNDERSIDE:	200
DEAD LOAD ON ATTIC CEILING:	600
DEAD LOAD ON ATTIC ROOM VERTICAL:	500
DEAD LOAD ON ATTIC SLOPING CEILING:	600
DEAD LOAD ON ATTIC FLOOR:	450
OTHER LOADS AS PER CALC. PRINT-OUT	
SELF-WEIGHT ADDED	

SUPPORT REACTIONS (N) (ULTIMATE)

FOR COMPLETE INFORMATION - SEE CALC. PRINTOUT

MAX DEFLECTION (mm) (SERVICEABILITY)

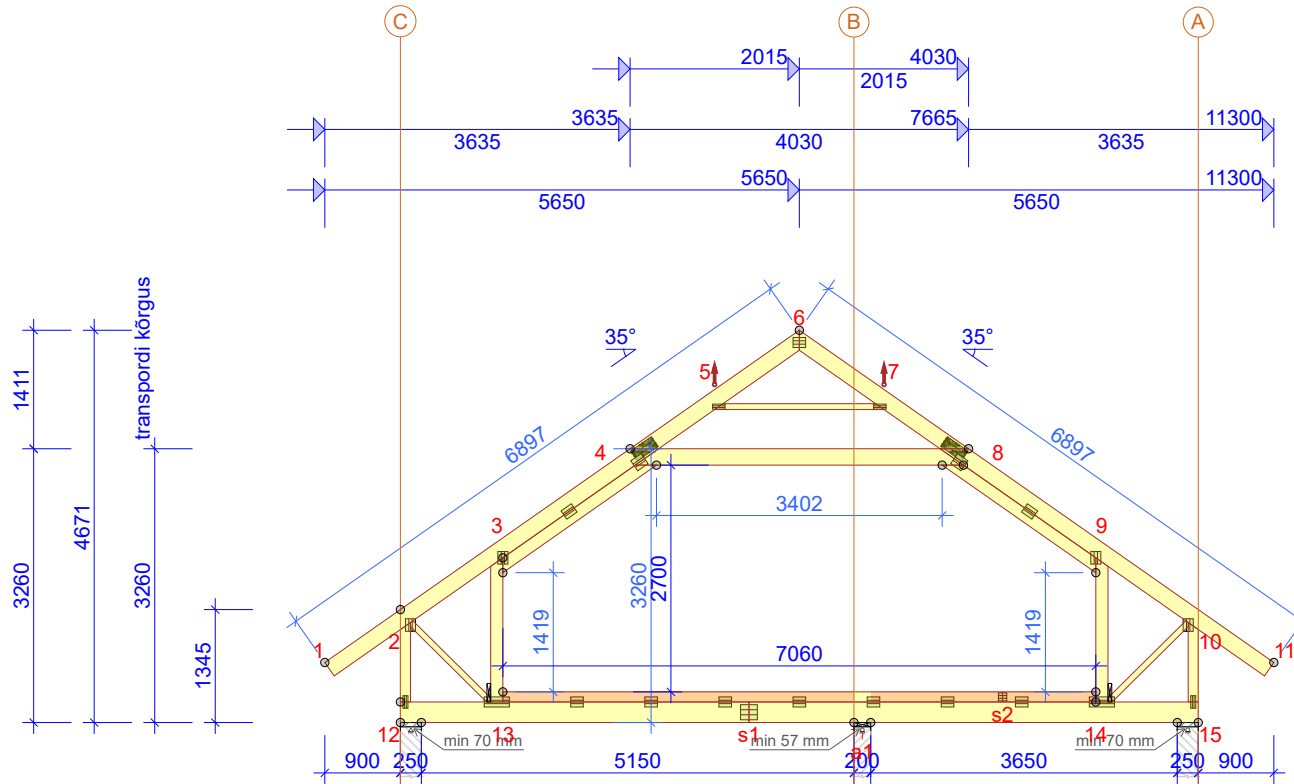
JOINT no	VER.	HOR.	LC NO.
4-8	12.9	1	1002:6 (Wfin (frequent))
4	8.2	4.9	1008:3:1 (Winst)
9	-1.8	5.5	1008:3:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

Project no:	415_21_v3_T
Mark:	T3
Revision:	
Page no:	1/2
Scale:	1:90
Date:	21/10/2021
Page no:	

T3b - 1 no. 2-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 189
MAXIMUM HANDLING WEIGHT (kg): 377
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA CERTIFIIOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD OUTSIDE ROOM: 500
LIVE LOAD INSIDE ROOM: 2000
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON WALL: 300
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ROOF: 250
DEAD LOAD ON OVERHANG UNDERSIDE: 200
DEAD LOAD ON ATTIC CEILING: 600
DEAD LOAD ON ATTIC ROOM VERTICAL: 500
DEAD LOAD ON ATTIC SLOPING CEILING: 600
DEAD LOAD ON ATTIC FLOOR: 450
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT DIR. LC PLE LC M LC S LC I LC I S-W
no no MAX MAX MAX MAX MIN mm
FOR COMPLETE INFORMATION - SEE CALC. PRINTOUT

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT VER. HOR. LC NO.
no
4-8 16.3 1 1002:6 (Wfin (frequent))
4 9 4.9 1008:3:1 (Winst)
9 -2 6.3 1008:3:1 (Winst)
FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

FASTENER LOCATION TOLERANCE: 8 mm

TIMBER	THICKNESS 45 mm	2 NO. OF PLY	BRACING	CSI
JOINT FROM - TO	DEPTH mm	GRADE	mm/no.	%
1-4	195	C24	400	64
3-4	145	C24		16
4-6	195	C24	400	12
6-8	195	C24	400	12
8-9	145	C24		18
8-11	195	C24	400	67
12-15	245	C24	600	32
13-14	120	C24		28
2-12	120	C24	None	44
10-15	120	C24	None	43
4-8	195	C24	Sheeting	78
3-13	145	C24	None	35
9-14	145	C24	None	36
5-7	70	C24	None	9
2-13	70	C24	None	35
10-14	70	C24	None	34

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	120	150	84
3	TOP-W	120	150	72
4:1	TOP-W	144	150	70
4:3	TOP-W	120	150	36
5	TOP-W	60	150	39
6	TOP-W	120	150	16
7	TOP-W	60	150	39
8:1	TOP-W	144	150	80
8:3	TOP-W	120	150	36
9	TOP-W	120	150	76
10	TOP-W	120	150	83
12:1	TOP-W	60	150	69
12:2	TOP-W	120	150	37
12:3	TOP-W	120	150	37
12:4	TOP-W	120	150	47
13	TOP-W	120	300	76
14:1	TOP-W	120	300	76
14:2	TOP-W	120	150	43
15:1	TOP-W	60	150	68
15:2	TOP-W	120	150	37
15:3	TOP-W	120	150	37
15:4	TOP-W	120	150	37

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CS (%)
4:2	MHP20	140	300	79
8:2	MHP20	140	300	78
s1	TOP-W	180	200	32
s2	TOP-W	96	100	36

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Designer Triinu Orm

Supervisor

Main engineer

Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T

Mark:
T3

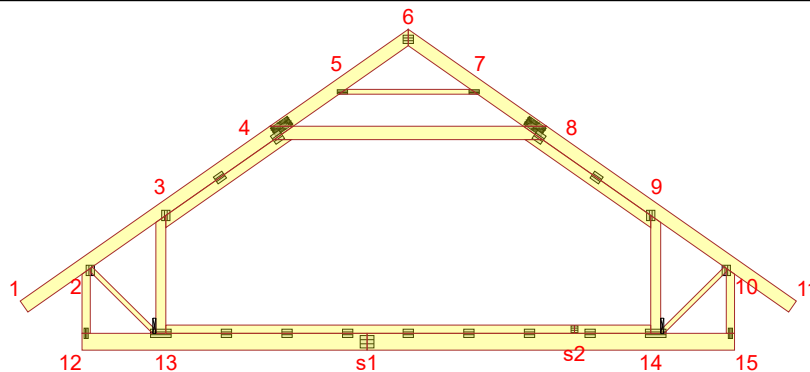
Revision:

Page no:
2/2

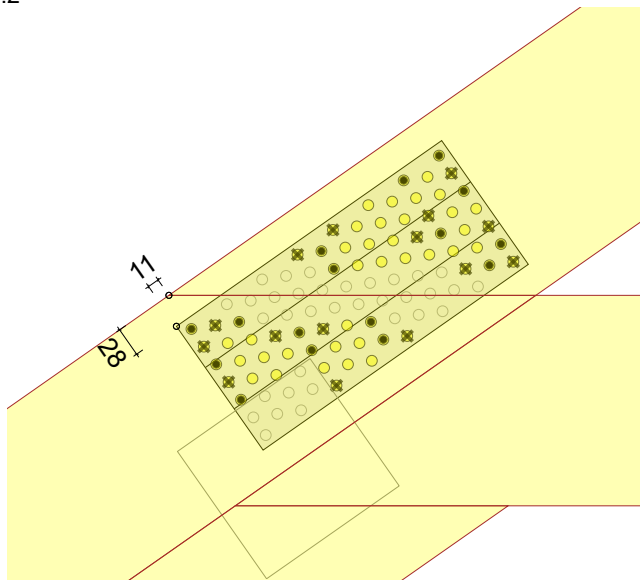
Scale:
1:90

Date: 21/10/2021 Page no:

T3



4:2



The joint is only plated on the outside faces
MHP20 140x300
NAIL: 8+8 NO. RINGED NAIL 4 X 40 / SIDE

79%
SCALE 1:7

8:2



The joint is only plated on the outside faces
MHP20 140x300
NAIL: 9+7 NO. RINGED NAIL 4 X 40 / SIDE

78%
SCALE 1:7

FASTENER LOCATION TOLERANCE: 8 mm



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Designer Triinu Orm

Supervisor

Main engineer

Cert. no

0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415 21_v3_T

Mark:

T3

Revision:

Page no:

1/1

Scale:

1:110

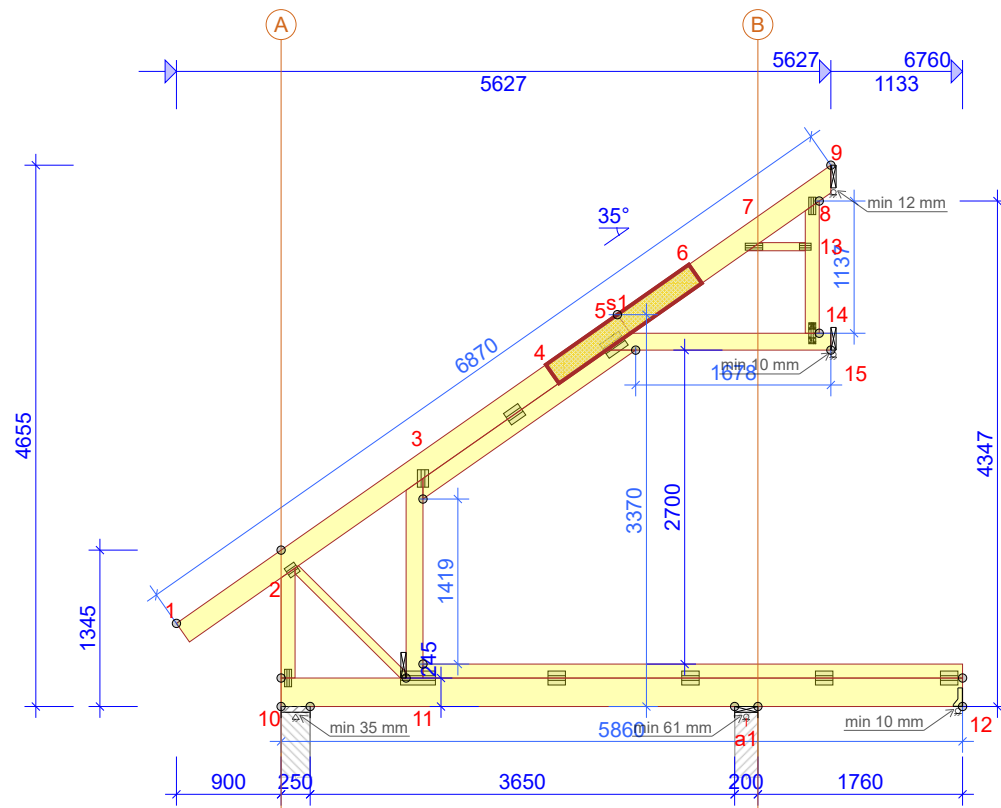
Date:

21/10/2021

Page no:

T4 - 2 no. 1-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm):	45
TRUSS WEIGHT (kg/ply):	115
TRUSS CENTRES (mm):	600
LOAD SHARING FACTOR:	1.1
SERVICE CLASS:	2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY : INSPECTA CERTIFICENTI OY	
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01	
BRACING: SEE TIMBER TABLE	

LOADS (N/m²)

SNOW ZONE:	1.5
SNOW LOAD (Sk):	1500 N/m²
WIND LOAD (qp(z)):	587 N/m²
LIVE LOAD OUTSIDE ROOM:	500
LIVE LOAD INSIDE ROOM:	2000
LIVE LOAD ON COLLAR:	500
DEAD LOAD ON WALL:	300
DEAD LOAD ON CEILING:	600
DEAD LOAD ON ROOF:	250
DEAD LOAD ON ATTIC CEILING:	600
DEAD LOAD ON ATTIC ROOM VERTICAL:	500
DEAD LOAD ON ATTIC FLOOR:	450
DEAD LOAD ON OVERHANG UNDERSIDE:	200
DEAD LOAD ON ATTIC SLOPING CEILING:	600
OTHER LOADS AS PER CALC. PRINT-OUT	
SELF-WEIGHT ADDED	

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
10	HOB	0	0	0	2009	-	

FOR COMPLETE INFORMATION - SEE CALC. PRINTOUT

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
5	13.1	15.2	1001:1:6 (Wfin (frequent))
3-5	12.8	15	1001:1:6 (Wfin (frequent))
s1-5	12.7	15.3	1001:1:6 (Wfin (frequent))

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-s1	195	C24	400	46
3-5	145	C24		40
9-s1	195	C24	400	43
10-12	245	C24	600	84
11-12	120	C24		55
2-10	120	C24	None	13
8-14	120	C24	None	30
5-15	145	C24	Sheeting	38
3-11	145	C24	None	49
2-11	70	C24	None	10
7-13	70	C24	None	9
4-6	2x45x195	C24	None	30

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL

JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	96	100	88
3:1	TOP-W	96	150	76
3:2	TOP-W	120	150	28
5	TOP-W	144	200	77
7	TOP-W	60	150	31
8	TOP-W	60	150	37
10	TOP-W	60	150	51
11:1	TOP-W	120	300	71
11:2	TOP-W	120	150	33
11:3	TOP-W	120	150	42
11:4	TOP-W	120	150	29
11:5	TOP-W	120	150	47
13	TOP-W	60	100	40
14	MHP20	60	180	54

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES

JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CS %

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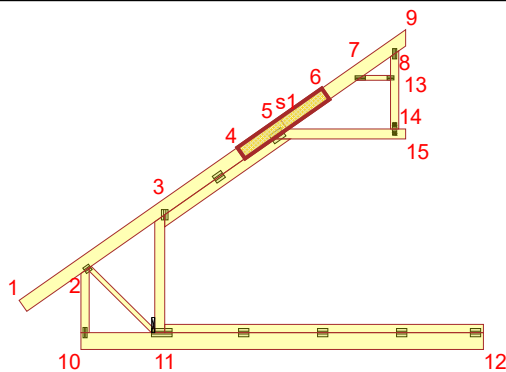
Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no.	0416-CPD-7036-01		

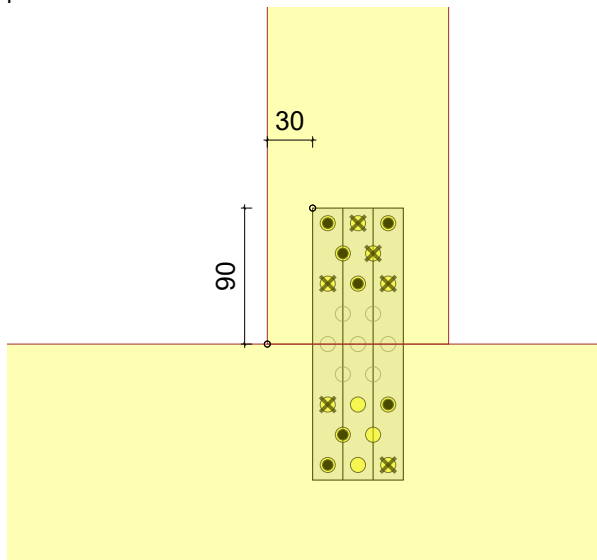
21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no: 415 21 v3 T	
Mark: T4	
Revision:	
Page no: 1/1	
Scale: 1:65	
Date: 21/10/2021	Page no:

T4



14



MHP20 60x180

NAIL: 3+4 NO. RINGED NAIL 4 X 40 / SIDE

54%

SCALE 1:5

FASTENER LOCATION TOLERANCE: 8 mm



AMV GRUPP
fermid kogu eluks

Kuusikuveere mü, Tila küla, Tartu vald, Tartu maakond

www.amvgrupp.ee

Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer

Triinu Orm

Supervisor

Main engineer

Cert. no

0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:

415 21_v3_T

Mark:

T4

Revision:

Page no:

1/1

Scale:

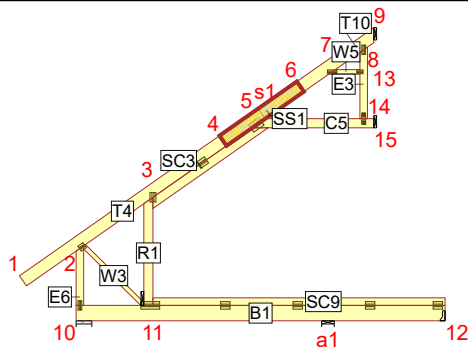
1:110

Date:

21/10/2021

Page no:

T4



SS1

Ringed nail 3.1 x 90

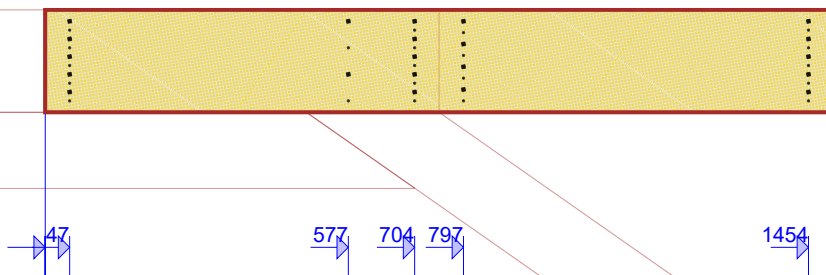
45 x 195 C24 - 1500 mm

Double

B: 5 no.
F: 5 no.

2 no. 5 no. 4 no.
2 no. 5 no. 4 no.

5 no.
5 no.



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Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415 21_v3_T

Mark:

T4

Revision:

Page no:

1/1

Scale:

1:120

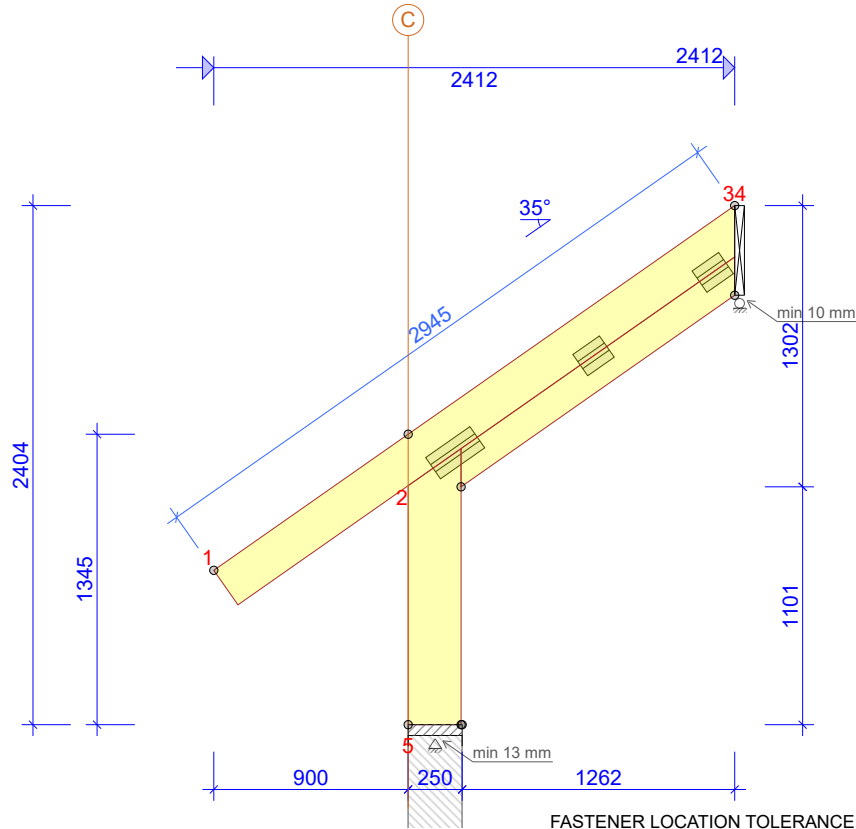
Date:

21/10/2021

Page no:

T5 - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



FASTENER LOCATION TOLERANCE: 8 mm

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-4	195	C24	400	44
2-3	145	C24		9
2-5	245	C24	None	10

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2:1	TOP-W	120	250	74
2:2	TOP-W	120	150	21
2:3	TOP-W	120	150	34

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 25
TRUSS CENTRES (mm): 600
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINT OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
DEAD LOAD ON WALL: 300
DEAD LOAD ON ROOF: 250
DEAD LOAD ON OVERHANG UNDERSIDE: 200
DEAD LOAD ON ATTIC SLOPING CEILING: 600
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
4	VER.	459	695	1344	1333	-1000	10
5	HOR.	0	0	0	1127	-	
5	VER.	1612	3317	5206	3480	583	13

MAX DEFLECTION (mm) (SERVICEABILITY)

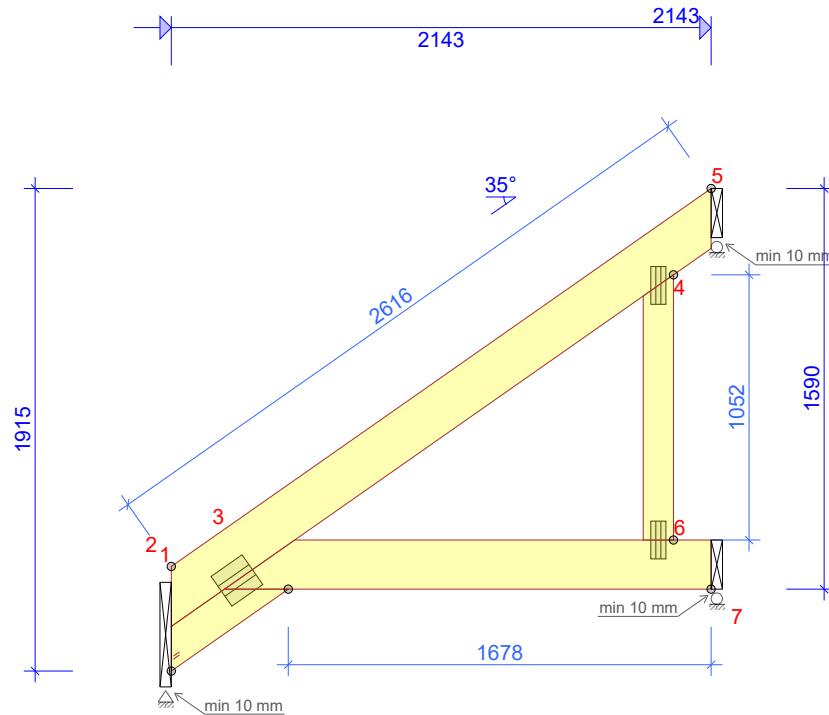
JOINT no	VER.	HOR.	LC NO.
1	1.2	1.5	1001:1:1 (Winst)
1-2	1.1	1.4	1001:1:1 (Winst)
1	0.7	4.4	1008:3:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

Project no:	415_21_v3_T
Mark:	T5
Revision:	
Page no:	1/1
Scale:	1:35
Date:	21/10/2021
Page no:	

T6 - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY


GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 24
TRUSS CENTRES (mm): 600
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON ROOF: 250
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ATTIC CEILING: 600
DEAD LOAD ON ATTIC SLOPING CEILING: 600
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L	LC M	LC S	LC I	LC I	S-W
		MAX	MAX	MAX	MAX	MIN	mm
2	HOR.	0	0	0	793	-	
2	VER.	952	1853	2056	1971	461	10
5	VER.	469	711	249	773	106	10
6	VER.	579	1354	1722	1596	-218	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
3-4	1	0.7	1008:3:1 (Winst)
3-6	0.7	0.1	1001:1:6 (Wfin (frequent))
4	0.2	0.3	1008:3:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-3	145	C24		3
2-5	195	C24	400	25
4-6	120	C24	None	5
3-7	195	C24	Sheeting	15

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
3	TOP-W	144	150	37
4	TOP-W	60	150	25
6	TOP-W	60	150	28

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Tel.: +372 5253192; E-mail: triinu@katusefermid.ee

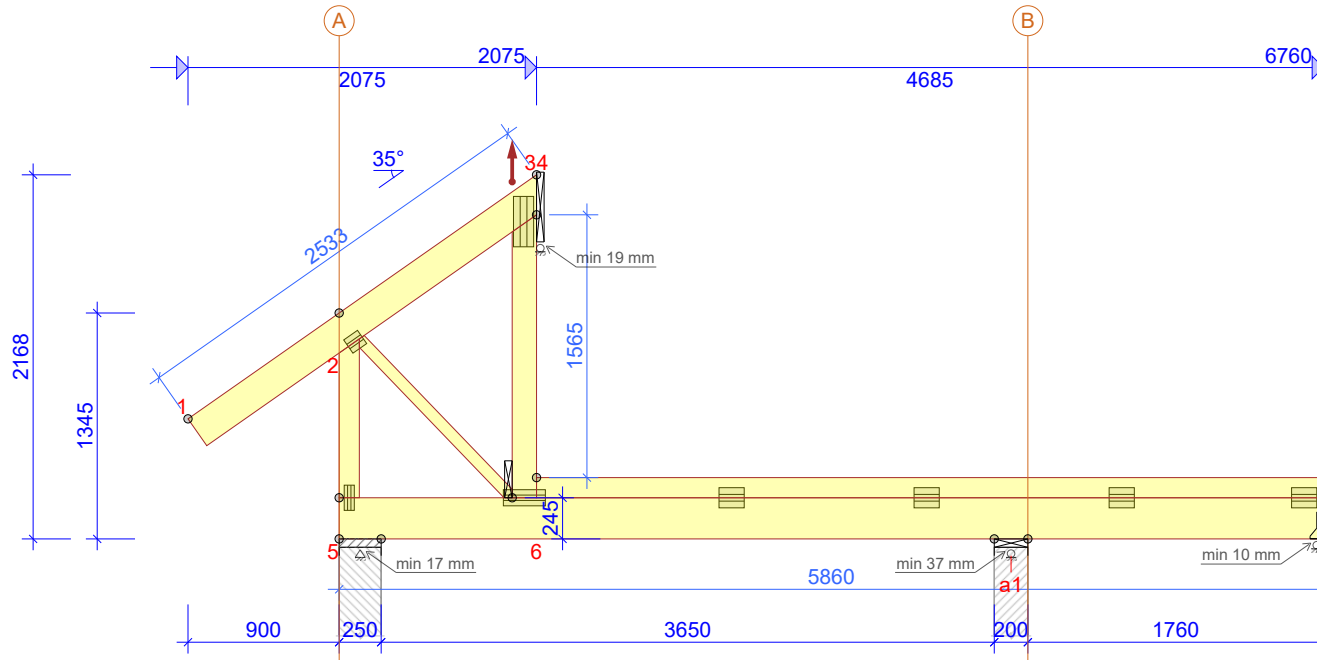
Designer Triinu Orm
Supervisor
Main engineer
Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T
Mark:
T6
Revision:
Page no:
1/1
Scale:
1:30
Date: 21/10/2021
Page no:

T7 - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY

**GENERAL DIRECTIONS**

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 67
TRUSS CENTRES (mm): 600
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA CERTIFIICINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD OUTSIDE ROOM: 500
LIVE LOAD INSIDE ROOM: 2000
DEAD LOAD ON WALL: 300
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ROOF: 250
DEAD LOAD ON OVERHANG UNDERSIDE: 200
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L	LC M	LC S	LC I	LC I	S-W
		MAX	MAX	MAX	MAX	MIN	mm
4	VER.	1051	4135	4123	3918	-297	19
5	HOR.	0	0	0	1002	-	
5	VER.	1388	2969	5437	3083	380	17
7	VER.	299	2035	989	1213	223	10
a1	VER.	1552	7388	6884	5885	1102	24

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1	1.4	0.8	1001:1:1 (Winst)
1-2	1.3	0.7	1001:1:1 (Winst)
2	0.1	0.2	1008:3:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

FASTENER LOCATION TOLERANCE: 8 mm

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-4	195	C24	400	40
5-7	245	C24	600	24
6-7	120	C24		15
2-5	120	C24	None	14
3-6	145	C24	None	9
2-6	70	C24	None	4

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	TOP-W	96	100	87
3	TOP-W	120	300	17
5	TOP-W	60	150	51
6:1	TOP-W	96	250	67
6:2	TOP-W	120	150	29
6:3	TOP-W	120	150	29
6:4	TOP-W	120	150	29
6:5	TOP-W	120	150	47

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Designer Triinu Orm

Supervisor

Main engineer

Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T

Mark:

T7

Revision:

Page no:

1/1

Scale:

1:45

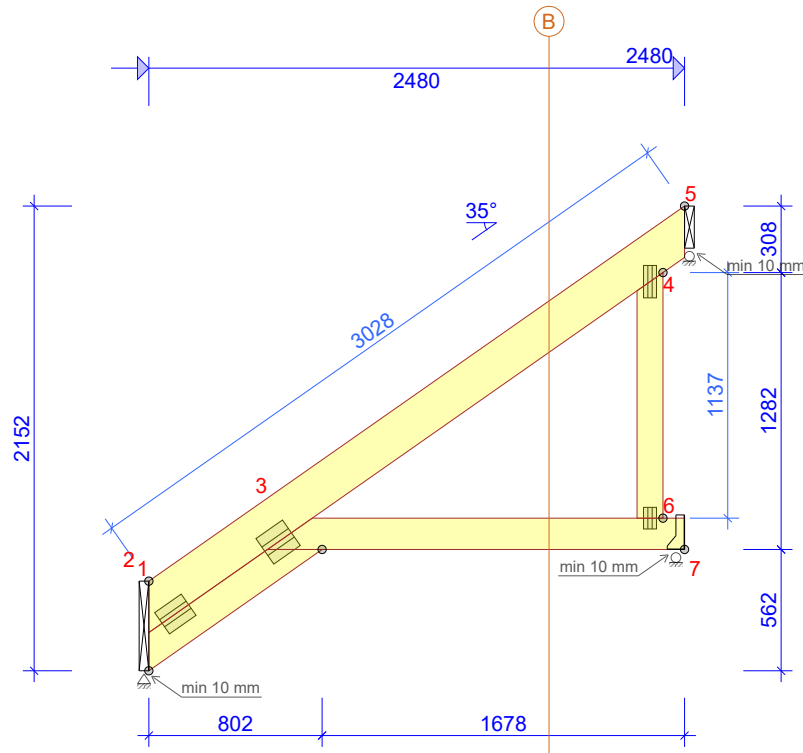
Date:

21/10/2021

Page no:

T8 - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 26
TRUSS CENTRES (mm): 600
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON ATTIC CEILING: 600
DEAD LOAD ON ROOF: 250
DEAD LOAD ON ATTIC SLOPING CEILING: 600
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
2	HOR.	0	0	0	918	-	
2	VER.	1098	2122	1977	2256	535	10
5	VER.	473	800	349	874	68	10
7	VER.	572	1450	1828	1713	-327	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
3-4	1.9	1.3	1008:3:1 (Winst)
3	1.9	0.9	1008:3:1 (Winst)
2-3	1.3	0.9	1008:3:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-3	145	C24		5
2-5	195	C24	400	31
4-6	120	C24	None	6
3-7	145	C24	Sheeting	14

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
3:1	TOP-W	144	150	33
3:2	TOP-W	120	150	34
4	TOP-W	60	150	28
6	TOP-W	60	100	40

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Designer Triinu Orm
Supervisor

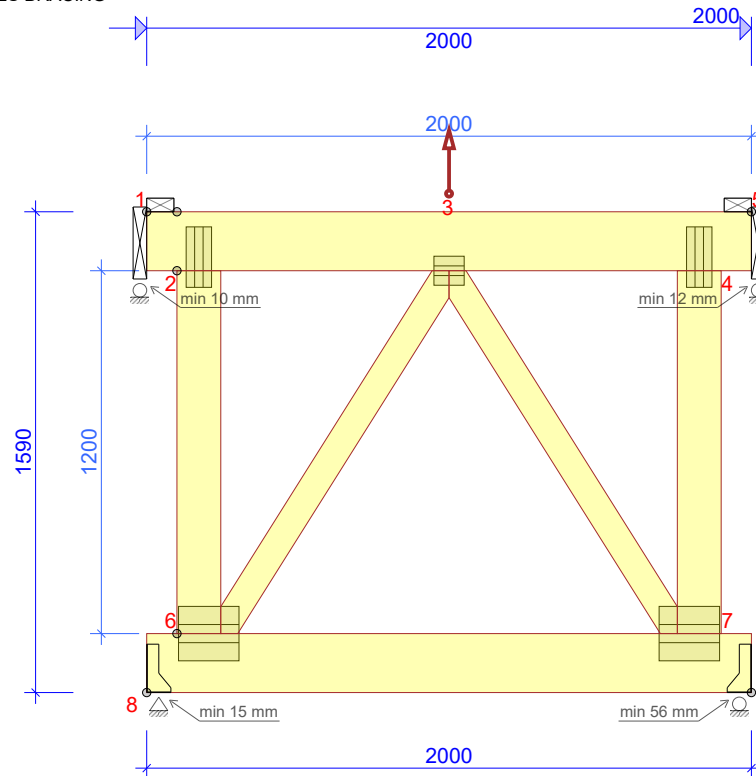
Main engineer
Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:	415_21_v3_T
Mark:	T8
Revision:	
Page no:	1/1
Scale:	1:35
Date:	21/10/2021
Page no:	

T9 - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY
LONGITUDINAL BRACES MUST BE INSTALLED PRIOR TO STANDING ON HORIZONTAL TOP CHORDS
☒ INDICATES BRACING



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 33
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD ON COLLAR: 500
LIVE LOAD OUTSIDE ROOM: 500
LIVE LOAD INSIDE ROOM: 2000
DEAD LOAD ON ROOF: 250
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ATTIC CEILING: 600
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	2784	5747	3030	6167	-471	10
5	VER.	3395	6773	3152	7421	-484	12
8	VER.	2367	4500	3192	4877	-62	15
9	VER.	3497	6693	3581	7247	-229	56

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
6-7	2.6	0	1001:1:6 (Wfin (frequent))
7	1.1	-0.5	1001:1:6 (Wfin (frequent))
3-6	1	0.6	1001:1:6 (Wfin (frequent))

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

FASTENER LOCATION TOLERANCE: 8 mm

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-5	195	C24	2000	64
2-6	145	C24	None	27
4-7	145	C24	None	31
8-9	195	C24	Sheeting	66
3-6	95	C24	None	21
3-7	95	C24	None	70

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
2	MiTopW	84	200	53
3	TOP-W	96	100	36
4	MiTopW	84	200	61
6	TOP-W	180	200	40
7	TOP-W	180	200	78

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Designer Triinu Orm

Supervisor

Main engineer

Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T
Mark:
T9
Revision:

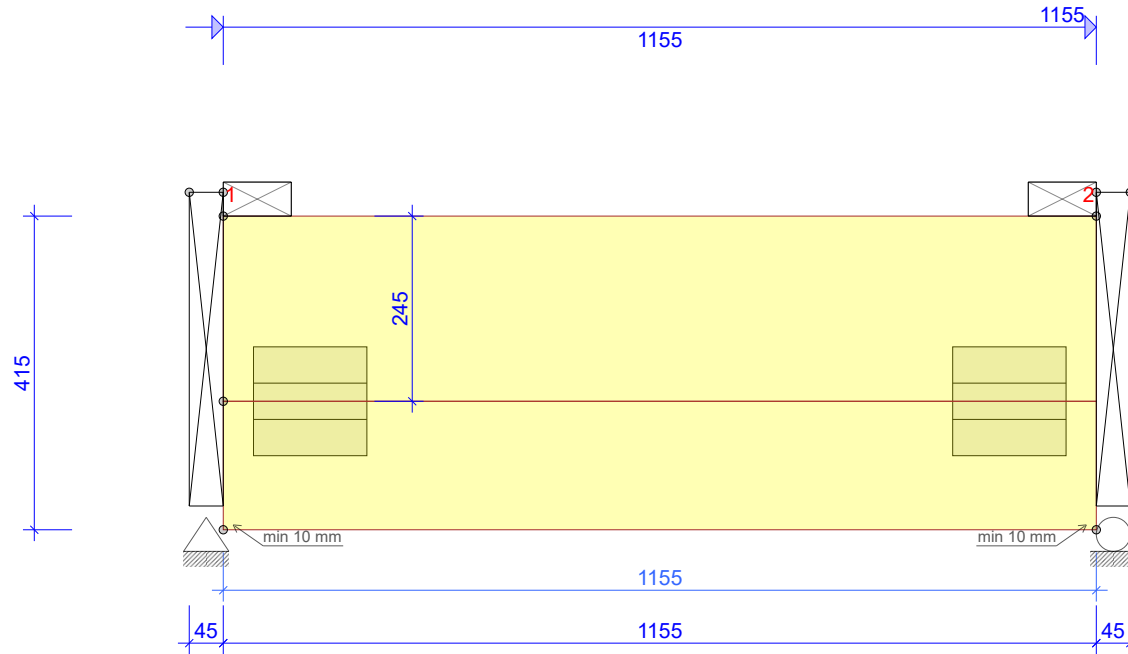
Page no:
1/1
Scale:
1:25

Date:
21/10/2021

Page no:

U2a - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY
LONGITUDINAL BRACES MUST BE INSTALLED PRIOR TO STANDING ON HORIZONTAL TOP CHORDS
☒ INDICATES BRACING



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 12
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
DEAD LOAD ON ROOF: 250
DEAD LOAD ON ATTIC SLOPING CEILING: 600
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	739	1505	1782	1491	-364	10
2	VER.	739	1505	1782	1491	-364	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1-2	0.1	0	1001:1:6 (Wfin (frequent))
1	0	0	1001:1:6 (Wfin (frequent))
1-2	0	0	1001:1:6 (Wfin (frequent))

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-2	245	C24	1155	12
1-2	170	C24		7

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
1:1	TOP-W	144	150	28
1:2	TOP-W	144	150	28

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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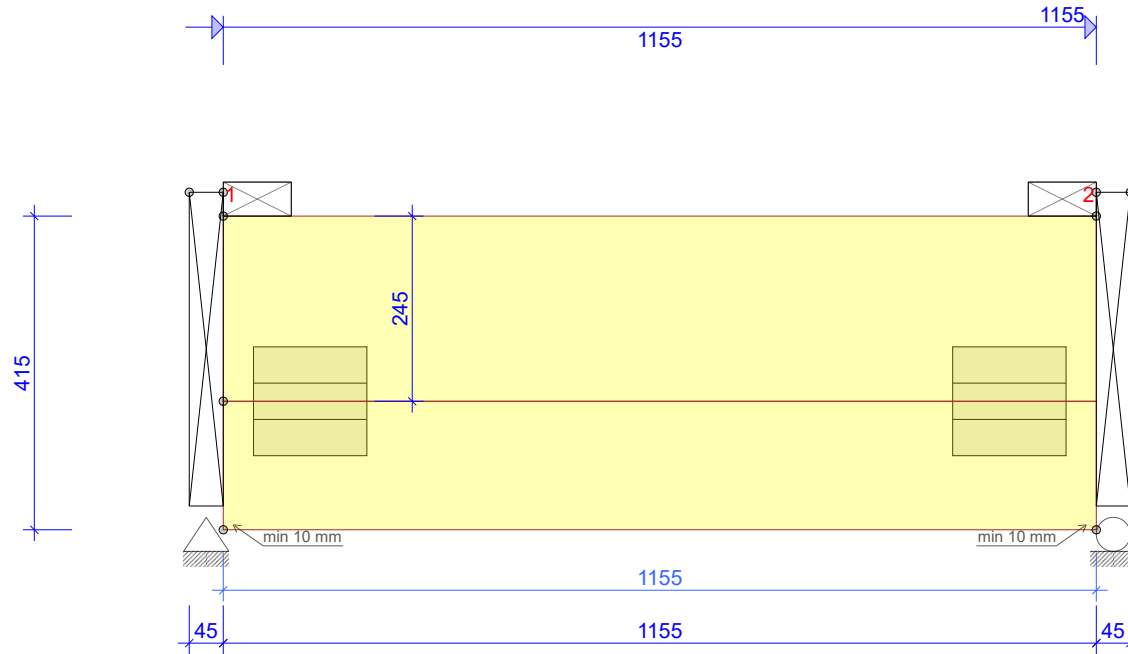
Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:	415_21_v3_T
Mark:	U2
Revision:	
Page no:	1/4
Scale:	1:10
Date:	21/10/2021
Page no:	

U2b - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY
LONGITUDINAL BRACES MUST BE INSTALLED PRIOR TO STANDING ON HORIZONTAL TOP CHORDS
☒ INDICATES BRACING



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 12
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON ROOF: 250
DEAD LOAD ON ATTIC SLOPING CEILING: 600
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	985	2084	2001	1894	221	10
2	VER.	985	2084	2001	1894	221	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1-2	0.1	0	1001:1:1 (Winst)
1	0.1	0	1001:1:6 (Wfin (frequent))
1	0	0	1001:1:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-2	245	C24	1155	16
1-2	170	C24		7

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
1:1	TOP-W	144	150	28
1:2	TOP-W	144	150	28

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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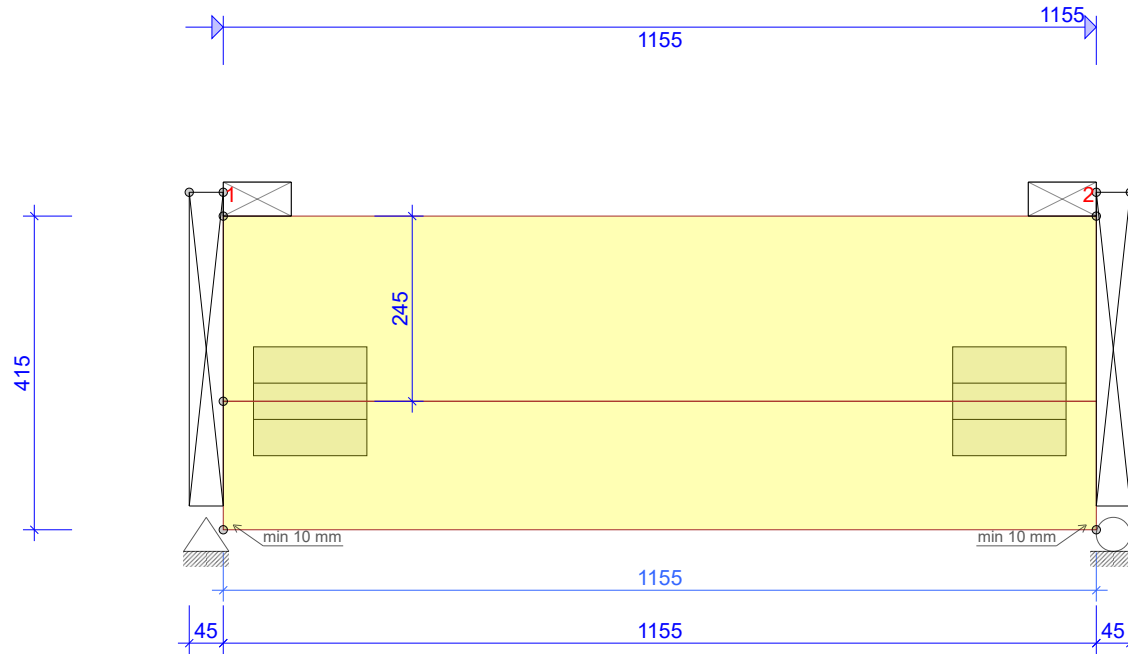
Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:	415_21_v3_T
Mark:	U2
Revision:	
Page no:	2/4
Scale:	1:10
Date:	21/10/2021
Page no:	

U2c - 1 no.

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY
LONGITUDINAL BRACES MUST BE INSTALLED PRIOR TO STANDING ON HORIZONTAL TOP CHORDS
☒ INDICATES BRACING



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 12
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA SERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON ROOF: 250
DEAD LOAD ON ATTIC SLOPING CEILING: 600
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	1058	2218	2066	2037	261	10
2	VER.	1058	2218	2066	2037	261	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1-2	0.1	0	1001:1:1 (Winst)
1	0.1	0	1001:1:6 (Wfin (frequent))
1	0	0	1001:1:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-2	245	C24	1155	17
1-2	170	C24		8

LOAD DISTRIBUTING FLOOR
OSB 3 22MM OR EQUIV.
INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
1:1	TOP-W	144	150	28
1:2	TOP-W	144	150	28

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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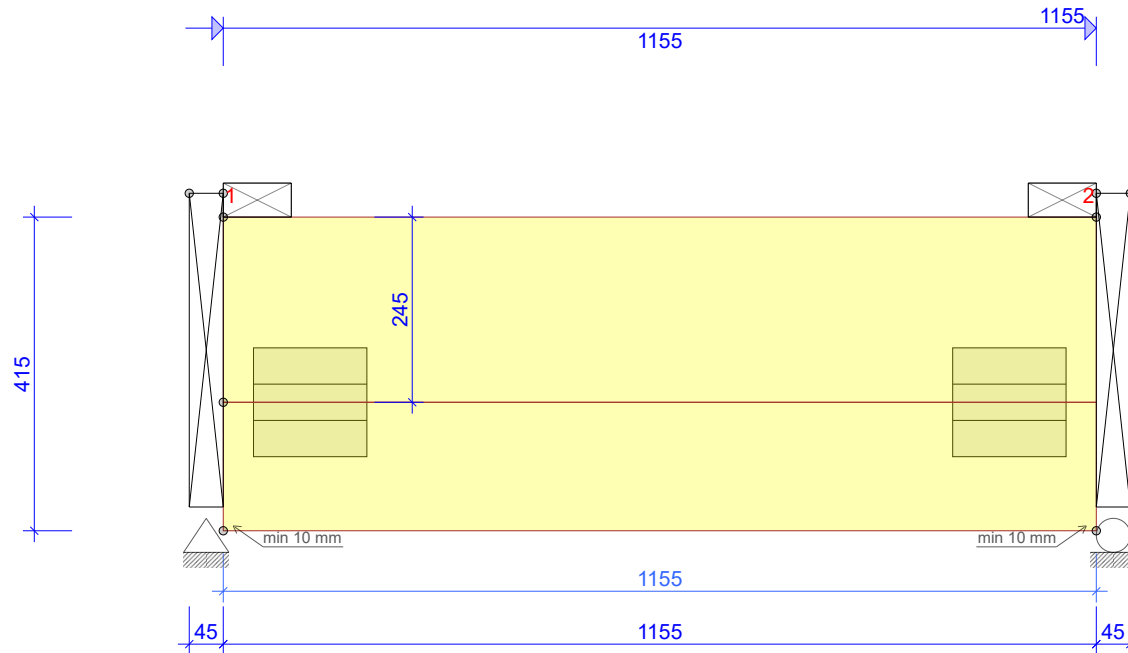
Designer Triinu Orm
Supervisor
Main engineer
Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T
Mark:
U2
Revision:
Page no:
3/4
Scale:
1:10
Date:
Page no:
21/10/2021

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BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY
LONGITUDINAL BRACES MUST BE INSTALLED PRIOR TO STANDING ON HORIZONTAL TOP CHORDS



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm):	45
TRUSS WEIGHT (kg/ply):	12
TRUSS CENTRES (mm):	900
LOAD SHARING FACTOR:	1.1
SERVICE CLASS:	2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :	
INSPECTA CERTIFICATOINT OY	
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01	
BRACING: SEE TIMBER TABLE	

LOADS (N/m²)

SNOW ZONE:	1.5
SNOW LOAD (Sk):	1500 N/m ²
WIND LOAD (qp(z)):	587 N/m ²
LIVE LOAD OUTSIDE ROOM:	500
LIVE LOAD INSIDE ROOM:	2000
DEAD LOAD ON ROOF:	250
DEAD LOAD ON ATTIC SLOPING CEILING:	600
OTHER LOADS AS PER CALC. PRINT-OUT	
SELF-WEIGHT ADDED	

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	1035	2874	2045	2787	-46	10
2	VER.	1035	2874	2045	2787	-46	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1-2	0.2	0	1006:6 (Wfin (frequent))
1	0.1	0	1006:6 (Wfin (frequent))
1-2	0.1	0	1006:6 (Wfin (frequent))

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER THICKNESS 45 mm				
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-2	245	C24	1155	22
1-2	170	C24		11
LOAD DISTRIBUTING FLOOR OSB 3 22MM OR EQUIV. INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL				

[illegible]

FASTENER LOCATION TOLERANCE: 0 mm				
FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CS %

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AMV GRUPP
fermid kogu eluks

Kuusikuveere mü, Tila küla, Tartu vald, Tartu maakond

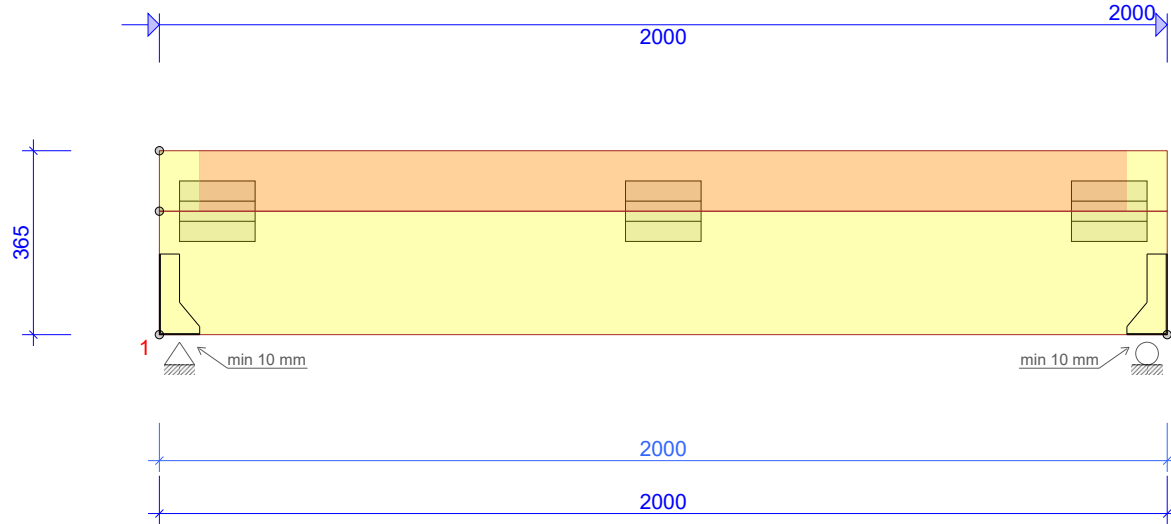
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Designer	Triinu Orm		
Supervisor			
Main engineer			
Cert. no	0416-CPD-7036-01		

Project no:	
415_21_v3_T	
Mark:	
U2	
Revision:	
Page no:	
4/4	
Scale:	
1:10	
Date:	Page no:
21/10/2021	

au1 - 1 no. 2-ply

BRACINGS ACCORDING TO TIMBER TABLE AND STABILITY OF THE TRUSS SYSTEM SHALL BE DESIGNED SEPARATELY



GENERAL DIRECTIONS

THE STRUCTURE HAS BEEN CALCULATED USING
COMPUTER PROGRAM "MITEK PAMIR",
AMV Grupp OY - LICENSE: 15051
DESIGN CODE: EN 1995-1-1:2004 + A2:2014 + EE NA:2007 +
A1:2008 + EE NA:2009
FULL DESIGN RESULTS AS PER CALC. PRINTOUT

GENERAL SETTINGS

TIMBER THICKNESS (mm): 45
TRUSS WEIGHT (kg/ply): 17
MAXIMUM HANDLING WEIGHT (kg): 34
TRUSS CENTRES (mm): 900
LOAD SHARING FACTOR: 1.1
SERVICE CLASS: 2 = 65% <= RH < 85%
THE TRUSS PLANT IS CONTROLLED BY :
INSPECTA CERTIFIJOINTI OY
PRODUCT CERTIFICATE: 0416 - CPR - 0416-CPD-7036-01
BRACING: SEE TIMBER TABLE

LOADS (N/m²)

SNOW ZONE: 1.5
SNOW LOAD (Sk): 1500 N/m²
WIND LOAD (qp(z)): 587 N/m²
LIVE LOAD INSIDE ROOM: 2000
LIVE LOAD OUTSIDE ROOM: 500
LIVE LOAD ON COLLAR: 500
DEAD LOAD ON CEILING: 600
DEAD LOAD ON ATTIC FLOOR: 450
OTHER LOADS AS PER CALC. PRINT-OUT
SELF-WEIGHT ADDED

SUPPORT REACTIONS (N) (ULTIMATE)

JOINT no	DIR.	LC P/L MAX	LC M MAX	LC S MAX	LC I MAX	LC I MIN	S-W mm
1	VER.	248	2585	2793	2291	-400	10
2	VER.	76	2843	2992	2586	-1141	10

MAX DEFLECTION (mm) (SERVICEABILITY)

JOINT no	VER.	HOR.	LC NO.
1-2	0.2	0	1006:1 (Winst)
1	0	0	1006:1 (Winst)
1-2	0	0	1006:1 (Winst)

FOR DEFLECTIONS AT OTHER POINTS - SEE CALC. PRINTOUT

TIMBER		THICKNESS 45 mm	2 NO. OF PLY	
JOINT FROM - TO	DEPTH mm	GRADE	BRACING mm/no.	CSI %
1-2	245	C24	600	9
1-2	120	C24		7
LOAD DISTRIBUTING FLOOR OSB 3 22MM OR EQUIV. INTERACTION WITH STRUT WALL INCLUDED IN BENDING CONTROL				

FASTENERS - SPLICES EXCL				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %
1:1	TOP-W	120	150	34
1:2	TOP-W	120	150	21
1:3	TOP-W	120	150	34

FASTENER LOCATION TOLERANCE: 8 mm

FASTENERS - SPLICES				
JOINT no	PLATE TYPE	WIDTH mm	LENGTH mm	CSI %

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Designer Triinu Orm
Supervisor
Main engineer
Cert. no 0416-CPD-7036-01

21/10/2021 - 12:23
10.0 SR2b (5ee3261)

Project no:
415_21_v3_T
Mark:
au1
Revision:
Page no:
1/1
Scale:
1:15
Date:
21/10/2021
Page no: