

<u>Truss Placement Plan</u> SCALE: 3/16" = 1'-0"

These tr comport design a See ind identified designe perman for the of support and coli- designe consult	BUILDER	Signature Home Builders	COUNTY	Harnett County	NUN	deeme require attache Code r founda require but no profes suppoi those registe design exceed	
russes and ents to b at the spec- ividual de d on the r is respo- ent bracin structure umns is t r. For ger BCSI-B1	JOB NAME	Lot B Hobby Rd.	ADDRESS	Lot B Hobby Rd / Holly Springs, NC	(BASED	d to comp ments. T ed Tables equireme tion size d to supp t greater f sional sha t system specified red desig the supp 1 5000#.	RUS eilly R Fayet [:] Phon
e designe e incorpo ecification sign shee placemen onsible fo ng of the cructure. T e includin he respon neral guid and BCS	PLAN	Mayview / 201222B / 3 Car	MODEL	Floor	ON TABLE	bly with the contra (derived nts) to d and numi bort react than 1500 all be reta for any rr in the atta n profess ort system	OF & SES
ed as indi prated into of the bi- ets for ea the drawing r tempora roof and g headers abibility o lance reg. I-B3 provi	SEAL DATE 11/9/21	11/9/21	DATE REV.	11/7/23	S R502.5(1 REQUIRED GIRDER UD_SCALE ACCEPTION	ne prescr ctor shall from the etermine ber of wo ions grea 0#. A reg ined to d action th acted Tal sional sha m for all	& B ndustr , N.C. 1) 864
GRAM ON vidual buid of the build g. The build floor syst n of the tr s, beams, f the build arding brz ided with sbcindus	QUOTE #	NA	DRAWN BY	Anthony Williams	CK STU) & (b)) © EA END USY GU 340 680 1020 1360 1700	at exceed	OOF EAN ial Par 28309 -8787
ilding ding signer. design Iding em and uss walls, ding acing, the	JOB #	J1123-6239	SALESMAN	SALESMAN Anthony Williams	0 0 0 0 8 7 1 Read bit strubs Fork 40 9 0	de the tive num 0000# esign ds ined to that	//S k

		Beam Schedule			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BPB1	15' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BPB2	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	FF
BM5	10' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
H6	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH-2	12' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
GDH	24' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM1	19' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	19' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM6	16' 0"	1-3/4"x 16" LVL Kerto-S	3	3	FF
BM4	9' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	5' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

	Conne	ctor Info	rmati	on	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
\bigcirc	HUS410	USP	22	Varies	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	1	Varies	10d/3"	10d/3"

WALL SCHEDULE

 1st Floor Brg. Wall

 2nd Floor Brg. Wall

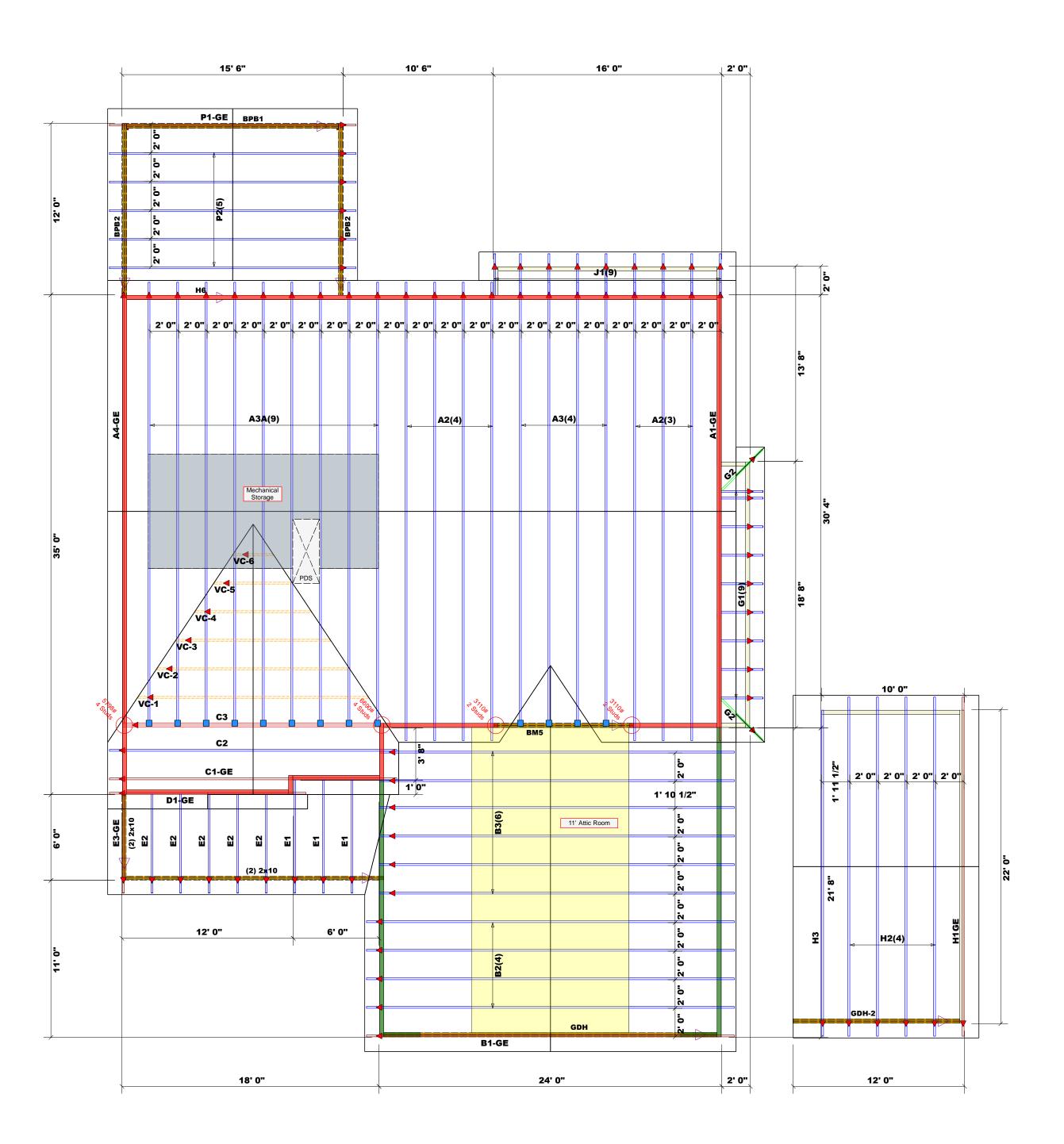
 Non-Bearing Walls

= Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do Not Erect Trusses Backwards

Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24*oc.

Dimension Notes
1. All exterior wall to wall dimensions are to
face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of
stud unless noted otherwise
3. All exterior wall to truss dimensions are to
face of stud unless noted otherwise

22' 0"



<u>Truss Placement Plan</u> SCALE: 3/16" = 1'-0"

These to comport design is See ind identified designed for the of support and coll designed consult	BUILDER	Signature Home Builders	COUNTY	Harnett County	NUM	deeme require attache Code r founda require but no profes suppoi those registe design exceed	
russes are nents to b at the spec- ividual de ed on the er is respo- ent bracin overall stu- s structure umns is t er. For gen BCSI-B1	JOB NAME	Lot B Hobby Rd.	ADDRESS	Lot B Hobby Rd / Holly Springs, NC	AD CHA (BASED	d to comp ments. T ad Tables equireme titon size ad to supp t greater f sional sha t system specified red desig the supp I 15000#.	RUS eilly R Fayet Phon
e designe e incorpo ecification esign shee placemen onsible fo ng of the ructure. T e includin he respor neral guid and BCS	PLAN	Mayview / 201222B / 3 Car	MODEL	Roof	ART FC	oly with the contra (derived nts) to d and numi port react than 1500 all be reta for any rr in the atta n profess oort system	SES
d as indi prated into of the bu- ets for ea the drawing r temporar roof and he design g headers nsibility o lance reg I-B3 provi	SEAL DATE	SEAL DATE Plan Date: 11/9/21	DATE REV . 11/7/23	11/7/23	DR JAC ES R502.5(1 REQUIRED GEIDERE WD S SCOL GUIDERE WD S SCOL S Q D S A D 4 D 5	ne prescr ctor shall from the etermine ber of wo ions grea 0#. A reg ined to d action th acted Tal sional sha m for all	& B ndustr , N.C. 1) 864
GRAM ON vidual buio o the buik uilding de ch truss o J. The bui ary and floor syst n of the tr s, beams, f the buik arding brs ided with sbcindus	QUOTE #	NA	DRAWN BY	Anthony Williams	CK STU	ter than 3 istered de esign the nat exceed	
ilding ding signer. design lding em and uss walls, ding acing, the	JOB #	J1123-6238	SALESMAN	SALESMAN Anthony Williams	CO CO<	de the tive num 0000# essign ds ined to that	//S k

		Beam Schedule			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BPB1	15' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BPB2	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	FF
BM5	10' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
H6	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	24' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM1	19' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	19' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM6	16' 0"	1-3/4"x 16" LVL Kerto-S	3	3	FF
BM4	9' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	5' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. -- Denotes Reaction Greater than 3,000 lbs.

Reaction / # of Studs

	Conne	ctor Info	rmati	on	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	13	Varies	16d/3-1/2"	16d/3-1/2"

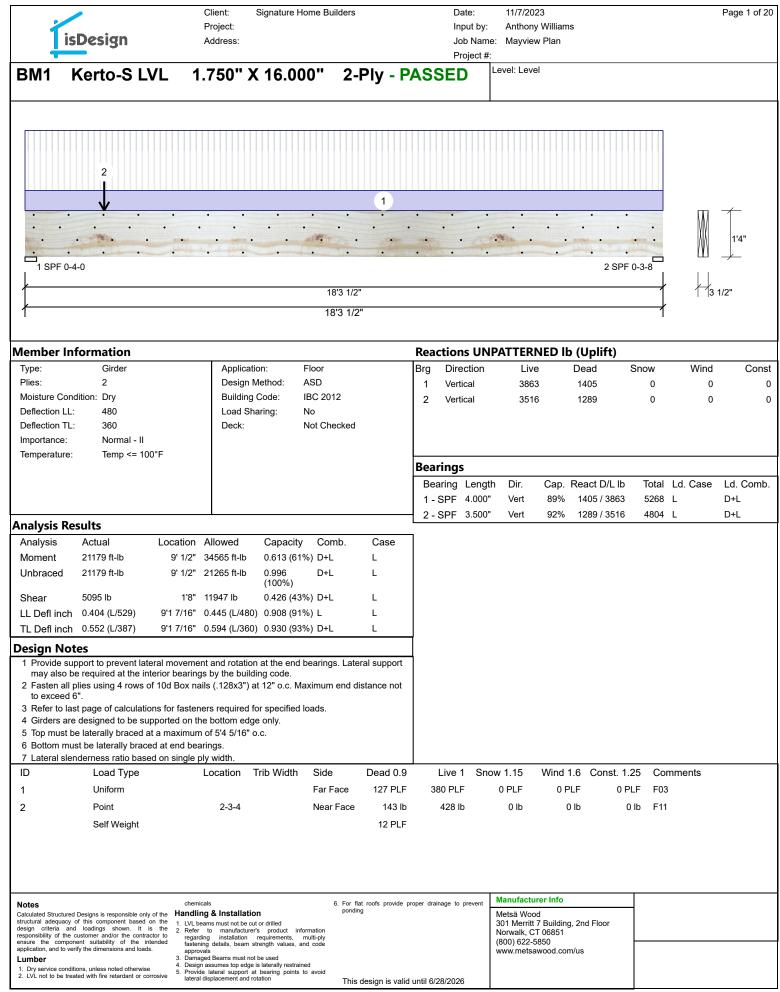
WALL SCHEDULE

1st Floor Brg. Wall
2nd Floor Brg. Wall
□==== Non-Bearing Walls

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

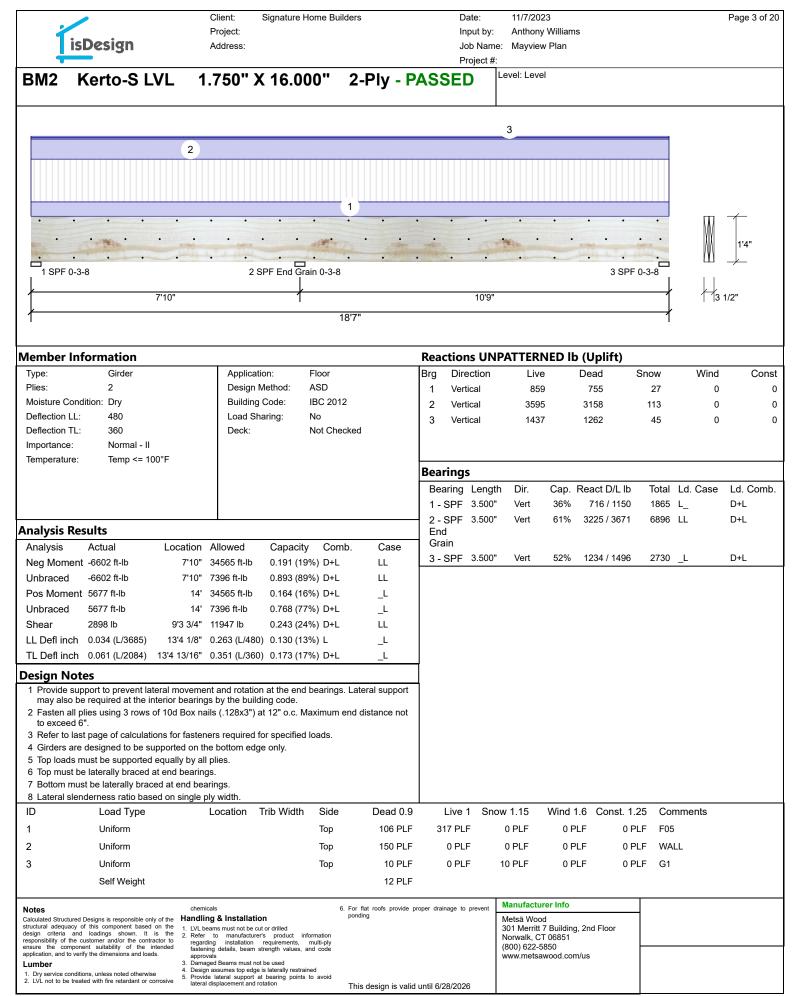
Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop
locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall otherwise
intra dimensions are to face of stud unless noted otherwise



isDesign	Client: Sig Project: Address:	nature Home Builders	Date: 11/7/2023 Input by: Anthony Williams Job Name: Mayview Plan Project #:	Page 2 of 2
BM1 Kerto-S	LVL 1.750" X	16.000" 2-Ply -	PASSED Level: Level	
1				
			· · · · · · · ·	
	· · · ·	· · · · ·	· · · · · · · · · · · · · · · · · · ·	
1 SPF 0-4-0		18'3 1/2"	2 SPF 0-3-8	3 1/2"
<u>/</u>		18'3 1/2"		7
Multi-Ply Analysis				
asten all plies using 4 apacity	rows of 10d Box nails (.12 77.4 %	8x3") at 12" o.c Maximu	m end distance not to exceed 6".	
oad	253.5 PLF			
ield Limit per Foot ield Limit per Fastener	327.4 PLF 81.9 lb.			
	1			
ield Mode	IV t. t. (0)			
dge Distance lin. End Distance	1 1/2" 3"			
oad Combination	D+L			
uration Factor	1.00			

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. UVL not to be treated with fire retardant or corrosive	LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements multi-ply	ponding This design is valid until 6/28/2026	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	



			Client:	Signature Home	Buildoro		Date:	11/7/2023		Page 4 of 20
2			Project:	Signature nome	Builders		Input by:	Anthony Williams		Fage 4 01 20
1	isDesign		Address:					e: Mayview Plan		
-							Project #:	-		
BM2	Kerto-S	LVL	1.750"	X 16.000'	' 2-Plv	- PASS	ED	Level: Level		
					_ · · ,					
•	• •	• •	• •	• •	• •	• •	•	• • •	1/2"	
•	• •	• •	•	• •	• •	• •	•	• • •		1'4"
•	• •		• •	• •	• •		•	• • •	<u> </u>	
1 SPF	0-3-8		2	SPF End Grain 0	-3-8				_{3 SPF 0-3-8} Λ	<i></i>
,										
		7'10"		1			10'9"			3 1/2"
1					18'7"					
Multi_Di	y Analysis									
		6.4.0		(100.00) (1)						
	I plies using 3		d Box nails	(.128x3") at 12	2" o.c Maxin	num end dis	stance no	ot to exceed 6".		
Capacity Load		0.0 % 0.0 PLF								
Yield Limit p	er Foot	245.6 P								
Yield Limit p	er Fastener	81.9 lb.								
См		1								
Yield Mode Edge Distan		IV 1 1/2"								
Min. End Distan		3"								
Load Combi										
Duration Fac	ctor	1.00								
			omianto		ê E 8-4 - 1			Manufacturer Info		
Notes Calculated Struc	ctured Designs is responsibl	e only of the Han	emicals dling & Installa	tion	 For flat roofs p ponding 	rovide proper drainag	e io prevent	Metsä Wood	———————————————————————————————————————	
structural adequ design criteria	uacy of this component ba a and loadings shown.	ased on the 1. LV It is the 2 Re	L beams must not be		on			301 Merritt 7 Building, 2nd F Norwalk, CT 06851	Floor	
responsibility of ensure the co	f the customer and/or the o omponent suitability of the	contractor to reconcerned reco	garding installation stening details, bear	requirements, multi-p n strength values, and co	bly			(800) 622-5850		
application, and Lumber	to verify the dimensions and	1 loads. ap 3. Da	provals maged Beams must	not be used				www.metsawood.com/us		
1. Dry service of	conditions, unless noted other be treated with fire retardant	erwise 5. Pr	sign assumes top eo ovide lateral suppor	ge is laterally restrained t at bearing points to avo						
2. EVE HOLIO D		at lat	eral displacement an	a rotation	This design i	s valid until 6/28/	2026			

		C	Client:	Signature Hor	ne Builders			Date:		11/7/202	3				Page 5 of 20
Lie	Design		Project: Address:					Input b	-		Williams				
		A	duress.					Projec		Mayview	Fidit				
BM3 I	Kerto-S L\	/L 1.	750" X	16.000)" 2-	Ply - P	AS	SED	L	evel: Leve					
			_												
•		• •													
														MM	1'4"
1.	a rittle	- Min .	-											Ŵ	
1 SPF 0-	3-8	2 SPF 0-3-8													
<u>/</u>	4'2"		1											<i> </i> − ₃	1/2"
1	4'2"		1												
Nember In	formation						Rea	ctions U	JNP	ATTERN	IFD lb	(Uplift)			
Туре:	Girder		Applicatio		oor		Brg	Directio		Live			Snow	Wind	Const
Plies: Moisture Con	2 dition: Drv		Design M Building (SD IC 2012		1	Vertical		763		280	0	0	0
Deflection LL:	•		Load Sha				2	Vertical		763		280	0	0	C
Deflection TL:	360		Deck:	-	ot Checked										
Importance:	Normal - II														
Temperature:	Temp <= 100)°F					Dee								
								rings		5.					
								aring Ler	-	Dir.		React D/L lb		Ld. Case	Ld. Comb.
								SPF 3.5		Vert	20%	280 / 763	1043		D+L
Analysis Re	sults						2-	SPF 3.5	00"	Vert	20%	280 / 763	1043	L	D+L
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case	٦								
Moment	870 ft-lb	2'1" 3	4565 ft-lb	0.025 (3%)	D+L	L									
Unbraced	870 ft-lb	2'1" 2	7947 ft-lb	0.031 (3%)	D+L	L									
Shear	897 lb	2'6 1/2" 1	1947 lb	0.075 (8%)	D+L	L									
LL Defl inch		2'1 1/16" 0	.093 (L/480)	0.021 (2%)	L	L									
TL Defl inch	(L/22654) 0.003	2'1 1/16" 0	.124 (L/360)	0.022 (2%)	D+L	L									
Design Not	(L/16568)						$\left \right $								
1 Provide su	pport to prevent late e required at the inf				earings. Late	eral support	1								
-	olies using 3 rows o	-	-	-	imum end d	istance not									
	st page of calculatio e designed to be su		-		ads.										
	e laterally braced a		-	,											
	st be laterally brace		-												
ID	nderness ratio base Load Type			rib Width	Side	Dead 0.9		Live 1 S	Snow	/ 1.15	Wind 1	6 Const. 1.	25 Com	ments	
1	Uniform	L			Near Face	122 PLF	3	66 PLF		0 PLF	0 PL			incito	
•	Self Weight				i tour i doo	12 PLF	0			0.2.	0.2		2		
	5														
Notes		chemical	s			at roofs provide p	proper dra	inage to prever	nt	Manufactur	er Info				
Calculated Structured structural adequacy	Designs is responsible only of this component based of	of the Handling			pondir				1	Metsä Wood 301 Merritt 7		2nd Floor			
design criteria and responsibility of the	d loadings shown. It is customer and/or the contract	the 2. Refer t tor to regarding	to manufacturer's installation r	s product inform requirements, mu	lti-ply				1	Norwalk, CT	06851	2.14 1 1001			
ensure the compor application, and to ver Lumber	nent suitability of the int rify the dimensions and loads	ended fastening approvals	details, beam str	rength values, and	code					800) 622-58 www.metsav		lus			
1. Dry service condit	ions, unless noted otherwise ated with fire retardant or cor	 Design as Provide 	ssumes top edge is	bearing points to	avoid	desire in 111		00/0000							
		iaterai dis	opiaroomeni anu rot	a	This	design is valid	ı until 6/	28/2026							

-		Client: Project:	Signature Home Bu	ilders	Date: Input by:	11/7/2023 Anthony Williams	Page 6 of 20
1	isDesign	Address:			Job Name:	-	
BM3	Kerto-S LVL	1.750")	X 16.000"	2-Ply - PASS	Project #:	evel: Level	
•	• • •	•					
		· · <					1'4"
1 SPF							
<i> </i>	4'2" 4'2"						1 []3 1/2"
Multi-Ply	Analysis						

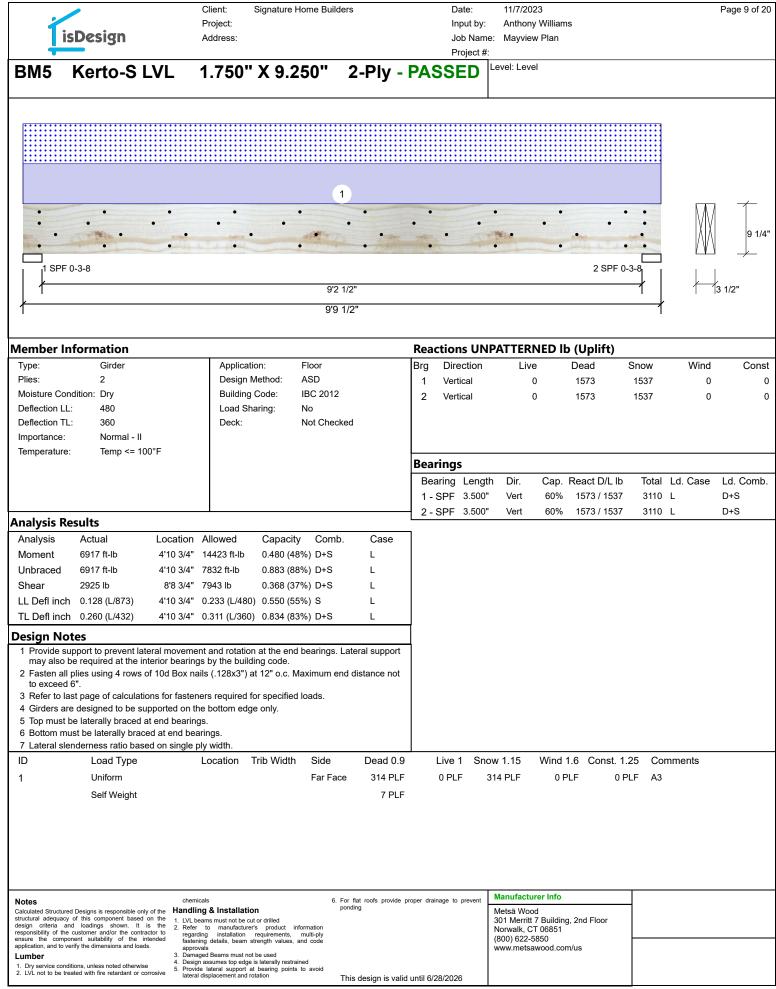
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	99.4 %	
Load	244.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	I. LVL beams must not be cut of drilled Reger to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used Design assumes top edge is laterally restrained Besign assumes top edge is laterally restrained Besign assumes top edge is laterally restrained	ponding This design is valid until 6/28/2026	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	

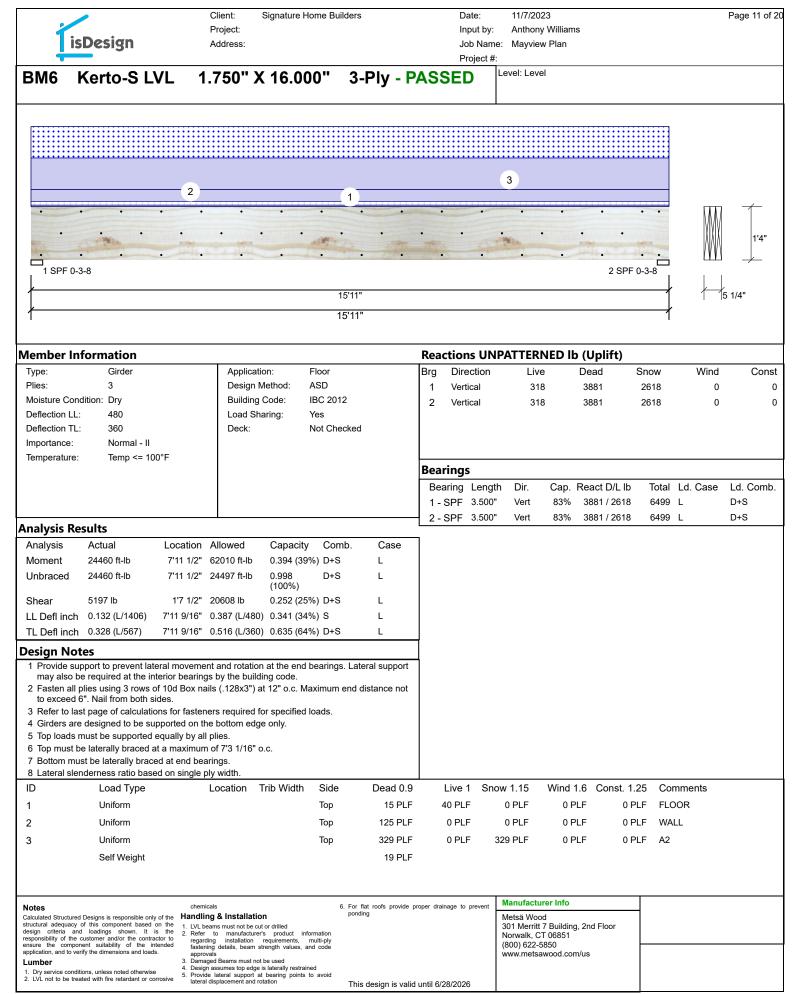
lis	Design		ent: Sigr ject: tress:	ature Home Builde	rs	Job	ut by: Name:	11/7/202 Anthony Mayview	Williams				Page 7 of
BM4	Kerto-S LV	L 1.7	50" X 1	6.000" 2	2-Ply - F		ject #:	evel: Level					
				3									
1 SPF 0-	2			25	SPF 0-3-8								1'4"
ļ		8'3 1, 8'3 1,										<i>†</i> √3	1/2"
	formation					Reactions		ATTERN		.1:£4)			
Type:	Girder		Application:	Floor		Brg Direc		Live	Dead		Snow	Wind	Co
Plies:	2		Design Meth	od: ASD		1 Vertic		166	1892		1364	0	
Moisture Con Deflection LL Deflection TL Importance:	: 480		Building Cod Load Sharino Deck:		ed	2 Vertic	al	166	189:	2	1364	0	
Temperature:	Temp <= 100°F	=											
						Bearings							
						Bearing L	-	Dir. Vert	Cap. Reac 63% 1893	t D/L lb 2 / 1364	Total Ld. 3256 L	Case	Ld. Cor D+S
						- 2-SPF 3		Vert		2 / 1364	3256 L		D+S
nalysis Re	esults												
Analysis				apacity Comb.	Case								
Moment	6057 ft-lb	4'1 3/4" 397		152 (15%) D+S	L								
Unbraced	6057 ft-lb	4'1 3/4" 151		401 (40%) D+S	L								
Shear	1997 lb	1'7 1/2" 137		145 (15%) D+S	L								
	0.017 (L/5541) 4				L								
		"1 13/16" U.Z	62 (L/360) 0.	155 (16%) D+S	L	-							
may also b Fasten all to exceed Refer to la Girders ard Top loads Top must b Rottom mu	pport to prevent latera e required at the interi plies using 3 rows of 1	ior bearings by 0d Box nails (5 for fasteners orted on the bo ually by all plie nd bearings. at end bearing	r the building of 128x3") at 12 required for sp ottom edge on s. s.	code. " o.c. Maximum end pecified loads.									
D	Load Type	Loc	ation Trib	Width Side	Dead 0.9	Live 1	Snov	v 1.15	Wind 1.6 C	Const. 1.2	25 Comme	ents	
1	Uniform			Тор	15 PLF	40 PLF		0 PLF	0 PLF	0 PI	_F FLOOR		
2	Uniform			Тор	100 PLF	0 PLF		0 PLF	0 PLF	0 PI	_F WALL		
3	Uniform			Тор	329 PLF	0 PLF	32	29 PLF	0 PLF	0 PI	_F A2		
	Self Weight				12 PLF								
otes		chemicals		6. Fc	or flat roofs provide	proper drainage to pr	event	Manufacture	er Info				
alculated Structure tructural adequacy esign criteria an esponsibility of the nsure the compo	d Designs is responsible only of t of this component based on t d loadings shown. It is t customer and/or the contractor nent suitability of the intend rify the dimensions and loads.	the 1. LVL beams i 2. Refer to regarding fastening de approvals 3. Damaged B	nust not be cut or dri manufacturer's pr installation requir tails, beam strength eams must not be us	pc oduct information ements, multi-ply values, and code ed	onding			Norwalk, CT (800) 622-58	Building, 2nd F 06851	loor			
I. Dry service condi	tions, unless noted otherwise ated with fire retardant or corrosi	 Design assu Provide late 	mes top edge is later ral support at bear cement and rotation	ally restrained ing points to avoid	bia dacine to th								
		iaterai uispia	Someric and rotation	T	his design is vali	a until 6/28/2026							

	Client: Signature Home B	uilders [Date: 11/7/2023	Page 8 of 20
isDesign	Project: Address:	h	nput by: Anthony Williams lob Name: Mayview Plan	
	Addless.		Project #:	
BM4 Kerto-S LVL	1.750" X 16.000"	2-Ply - PASSE	D Level: Level	
• • • •	• • •	•		$\overline{\mathbf{M}}$ $\overline{\mathbf{T}}$
		1/2"		1'4"
	• • •	· — Ý		
1 SPF 0-3-8		2 SPF 0-3-8		
	8'3 1/2"			3 1/2"
ł	8'3 1/2"	ł		
Multi-Ply Analysis Fasten all plies using 3 rows of 1	10d Boy nails (128,2") at 12"	o c Maximum and dista	ance not to exceed 6"	
Capacity 0.0 %	6	o.c Maximum end dista	ance not to exceed 6.	
Load 0.0 F Yield Limit per Foot 245.0	PLF 6 PLF			
Yield Limit per Fastener 81.9 Cm 1	lb.			
Yield Mode IV	SU			
Edge Distance 1 1/2 Min. End Distance 3"				
Load Combination Duration Factor 1.00				
Notes	chemicals	 For flat roofs provide proper drainage to ponding 		
structural adequacy of this component based on the 1 design criteria and loadings shown. It is the 2	andling & Installation . LVL beams must not be cut or drilled . Refer to manufacturer's product information		Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	
responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.	regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals		(800) 622-5850 www.metsawood.com/us	
Lumber 33 1. Dry service conditions, unless noted otherwise 5	 Damaged Beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid 			
2. LVL not to be treated with fire retardant or corrosive Version 23.40.705 Powered by iStruct™ Dataset:	lateral displacement and rotation	This design is valid until 6/28/202	26	



Version 23.40.705 Powered by iStruct[™] Dataset: 23091201.1447

	Client:	Signature Home Bu	ilders	Date:	11/7/2023		Page 10 of 2
	Project:	C C		Input by:			· ·
isDesign	Address:			Job Nam	ne: Mayview Plan		
				Project #	<u>t:</u>		
BM5 Kerto-S L	/ 1 750	' X 9.250"	2-DIV		Level: Level		
DIVIS Neito-SE		X 3.230	Z -F iy	PASSED			
• •	• •	•	•	•	• •	• •	
•••	•	•	•	• •	•	• •	≂ V V
•••	•	• •	•	•	• •	•	∑ ∧ ∧ 9 1/4"
• •	• •	•	•	•	• •	••-	
1 SPF 0-3-8						2 SPF 0-3-8	
		9	2 1/2"			1	3 1/2"
1		9'	9 1/2"				
						•	
Multi-Ply Analysis							
Fasten all plies using 4 rows	of 10d Box nails	(.128x3") at 12" o	o.c Maximur	n end distance n	ot to exceed 6".		
Capacity	83.4 %						
Load	314.0 PLF						
Yield Limit per Foot	376.5 PLF						
Yield Limit per Fastener	94.1 lb.						
CM	1						
Yield Mode	IV 1.1/0"						
Edge Distance Min. End Distance	1 1/2" 3"						
Load Combination	D+S						
Duration Factor	1.15						
	-						
Notes	chemicals		 For flat roofs provide 	e proper drainage to prevent	Manufacturer Info		
Calculated Structured Designs is responsible only of	the Handling & Installat	on	ponding		Metsä Wood		
structural adequacy of this component based on design criteria and loadings shown. It is	the 2. Refer to manufactur	er's product information			301 Merritt 7 Building, 2n Norwalk, CT 06851	id Floor	
responsibility of the customer and/or the contracto ensure the component suitability of the inten	r to regarding installation ded fastening details, beam	requirements, multi-ply strength values, and code			(800) 622-5850		
application, and to verify the dimensions and loads.	approvals 3. Damaged Beams must r	ot be used			www.metsawood.com/us		
1. Dry service conditions, unless noted otherwise	 Design assumes top edg Provide lateral support 	e is laterally restrained at bearing points to avoid					
2. LVL not to be treated with fire retardant or corros	sive lateral displacement and	rotation	This design is va	lid until 6/28/2026			



Version 23.40.705 Powered by iStruct™ Dataset: 23091201.1447

1	isDesign	Client: Signal Project: Address:	ure Home Builders	Date: 11/7/2023 Input by: Anthony Williams Job Name: Mayview Plan Project #:	Page 12 of 20
BM6	Kerto-S LV	L 1.750" X 16	.000" 3-Ply - PAS	SED Level: Level	
	· · ·	· · ·	· · · ·	 	
•					· · · · · · · · · · · · · · · · · · ·
1 SP	F 0-3-8			2 SPF	
			15'11"		5 1/4"
 			15'11"		
Multi-Pl	y Analysis				
Fasten al 6".	ll plies using 3 rows	of 10d Box nails (.128x	3") at 12" o.c Nail from both	sides. Maximum end distance not to	exceed
Capacity Load Yield Limit p Yield Limit p Cm	per Foot per Fastener	0.0 % 0.0 PLF 245.6 PLF 81.9 lb. 1			
Yield Mode Edge Distar Min. End Di	nce	IV 1 1/2" 3"			

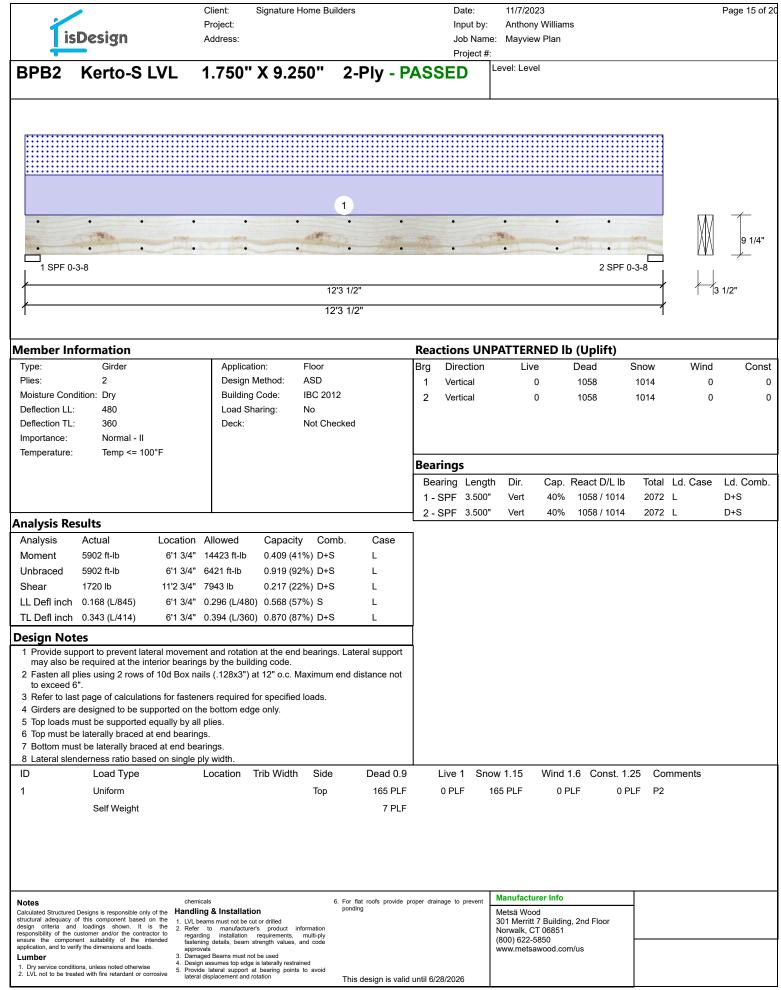
Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to	1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	
ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 6/28/2026	(000) 622-3630 www.metsawood.com/us	

Load Combination Duration Factor

1.00

is	Design	Р	client: Sign Project: .ddress:	ature Home Builder	s	Date: Input by Job Nai	11/7/202 y: Anthony me: Mayview	Williams		Page 13
	-					Project	#: Level: Leve	1		
GDH	Kerto-S L	VL 1.	750" X 1	4.000" 2	2-Ply - F	PASSED	Level. Leve			
		2								
				1						
				att and			and the second s		•	M 1
		Contraction of	Hannah Contraction					The same of the party of the	To affect Manager	1'2"
1 SPF E	nd Grain 0-6-0							2 SPF End Grain	0-6-0	
/				18'3	"					3 1/2"
ł				19'3	;"					
/lember In	formation					Reactions U	NPATTERN	IED lb (Uplift)		
Туре:	Girder		Application:	Floor		Brg Direction	n Live	Dead	Snow	Wind Co
Plies:	2 dition: Dm/		Design Metho			1 Vertical	578		0	0
Moisture Cond Deflection LL:			Building Code Load Sharing			2 Vertical	578	1885	0	0
Deflection TL:			Deck:	Not Checke	d					
Importance:	Normal - II									
Temperature:	Temp <= 100)°F								
						Bearings				
						Bearing Leng	gth Dir.	Cap. React D/L lb	Total Ld.	Case Ld. Co
						1-SPF 6.00		14% 1885 / 578	2463 L	D+L
						End				
Analysis Re	sults					Grain	O" \/art	440/ 4005 / 577	0460 1	D+L
Analysis	Actual	Location A	llowed Ca	pacity Comb.	Case	2 - SPF 6.00 End	0" Vert	14% 1885 / 577	2463 L	D+L
Moment	10800 ft-lb			00 (40%) D+L	L	Grain				
Unbraced	10800 ft-lb	9'7 1/2" 1		98 D+L 10%)	L					
Shear	2049 lb	1'8" 1		96 (20%) D+L	L					
	0.102 (L/2160)		.459 (L/480) 0.2	. ,	L					
	0.435 (L/506)		.612 (L/360) 0.7		L					
			(,	()		1				
Design Not	pport to prevent late	aral movement	and rotation at th	e end bearings I a	teral support	4				
	e required at the int									
2 Fasten all p to exceed 6	olies using 3 rows o	f 10d Box nails	s (.128x3") at 12"	o.c. Maximum end	distance not					
	st page of calculatio	ns for fastener	s required for sp	ecified loads.						
	designed to be sup									
-	nust be supported e									
-	e laterally braced a st be laterally brace									
	nderness ratio base		•							
ID	Load Type	L	ocation Trib	Vidth Side	Dead 0.9	Live 1 S	now 1.15	Wind 1.6 Const. 1	.25 Comme	nts
1	Uniform			Тор	35 PLF	60 PLF	0 PLF	0 PLF 0 I	PLF F+4	
2	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF 0 I	PLF WALL	
	Self Weight				11 PLF					
lotes		chemicals	ŝ			proper drainage to prevent	Manufactur	er Info		
Calculated Structured	Designs is responsible only of this component based of	of the Handling		por	nding	- •	Metsä Wood		1	
design criteria and responsibility of the o	I loadings shown. It is customer and/or the contract	the 2. Refer to	ns must not be cut or drill o manufacturer's pro installation require	duct information			Norwalk, CT		1	
ensure the compon	nent suitability of the inte ify the dimensions and loads	ended fastening · approvals	details, beam strength	values, and code			(800) 622-58 www.metsav	350 vood.com/us		
Lumber 1. Drv service conditi	ions, unless noted otherwise	 Damaged Design as 	Beams must not be use ssumes top edge is latera	Illy restrained					1	
2. LVL not to be trea	ated with fire retardant or cor		ateral support at bearing placement and rotation		nis design is valid	l until 6/28/2026			1	
	Powered by iStructIM									

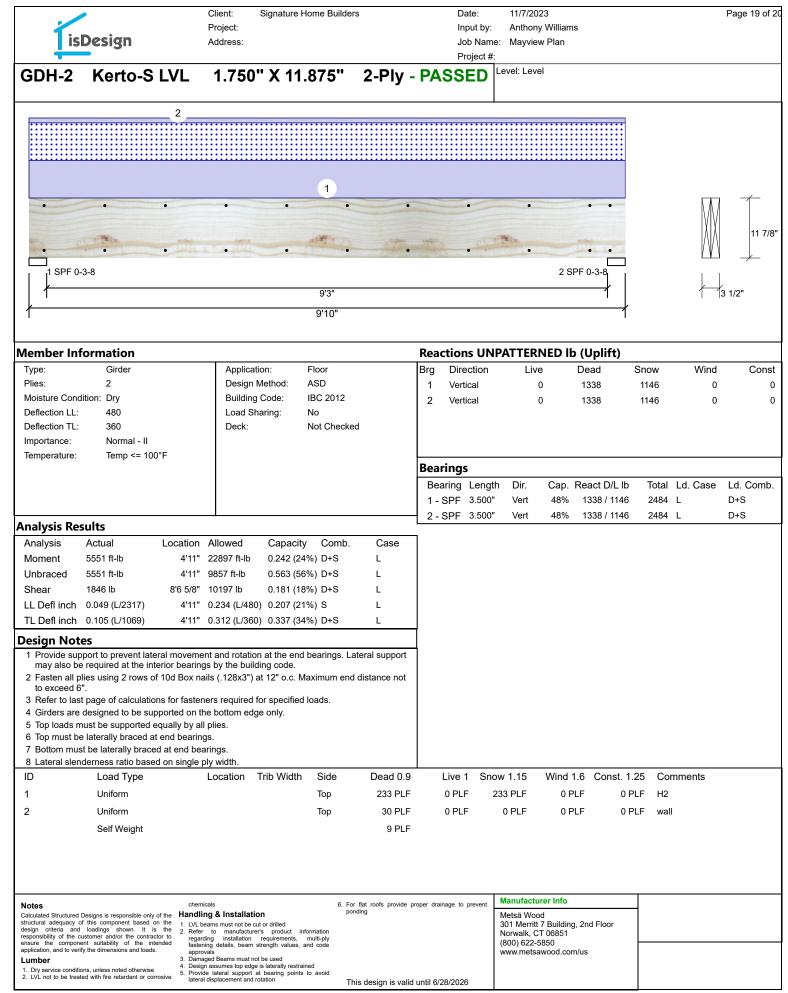
	Client: Signature Home Project:		Date: 11/7/2023 Input by: Anthony Williams	Page 14 of .
isDesign	Address:		Job Name: Mayview Plan Project #:	
GDH Kerto-S	LVL 1.750" X 14.000	" 2-Ply - PASSE		
			I	
				— ѷ п ≁
		· · · · ·	· · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •
1 SPF End Grain 0-6-0			2 SPF End Grain 0-6	
1		18'3"		7 7 3 1/2"
ł		19'3"		
Multi-Ply Analysis				
	ows of 10d Box nails (.128x3") at 1	2" o.c Maximum end dist	ance not to exceed 6".	
Capacity .oad	0.0 % 0.0 PLF			
ield Limit per Foot	245.6 PLF			
ield Limit per Fastener M	81.9 lb. 1			
ield Mode	IV			
dge Distance lin. End Distance	1 1/2" 3"			
oad Combination	3			
Duration Factor	1.00			
			Manufacturer Info	
Notes Calculated Structured Designs is responsible	chemicals only of the Handling & Installation	 For flat roofs provide proper drainage ponding 	Manufacturer info Metsä Wood	
structural adequacy of this component bas design criteria and loadings shown.	ed on the 1. LVL beams must not be cut or drilled It is the 2. Refer to manufacturer's product informati	on	301 Merritt 7 Building, 2nd Floor	
responsibility of the customer and/or the co ensure the component suitability of the	intractor to regarding installation requirements, multi- fastening details, beam strength values, and co	bly	Norwalk, CT 06851 (800) 622-5850	
application, and to verify the dimensions and I Lumber	oads. approvals 3. Damaged Beams must not be used		www.metsawood.com/us	
1. Dry service conditions, unless noted other 2. LVL not to be treated with fire retardant of	 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to average lateral displacement and rotation 			
	actorial alopiacement and futation	This design is valid until 6/28/20		



Í	isDesign		Client: Project: Address:	Signature Home Bu	uilders		Date: Input by: Job Name Project #:	11/7/2023 Anthony Williams e: Mayview Plan	Page 16 of 2
BPB2	Kerto-S	LVL	1.750"	X 9.250"	2-Ply	- PASS		Level: Level	
•	• •	•	•	•	•	•	•	• •	
	• •	•	•	•	•	•	•	• •	2 SPF 0-3-8
					2'3 1/2" 2'3 1/2"				3 1/2"
Multi-Ply Fasten all Capacity Load Yield Limit pe CM Yield Mode Edge Distance Min. End Dist Load Combin Duration Fact	plies using 2 rc er Foot er Fastener ce tance nation	ows of 10d 0.0 % 0.0 PLF 163.7 PL 81.9 lb. 1 IV 11/2" 3" 1.00		.128x3") at 12"	o.c Maxim	um end di	stance no	ot to exceed 6".	
structural adequa design criteria responsibility of t ensure the con application, and to Lumber 1. Dry service co	ured Designs is responsible o acy of this component base and loadings shown. It the customer and/or the con ponent suitability of the o verify the dimensions and lo overify the dimensions and lo the dimensions and base treated with fire retardant or	nly of the d on the is the tractor to intended ads. Handl 1. LVL 2. Refe rega faste appr 3. Dam 4. Desi 5. Prov	beams must not be co r to manufacture rding installation ning details, beam s ovals aged Beams must no gn assumes top edge	ut or drilled r's product information requirements, multi-ply strength values, and code ot be used e is laterally restrained at bearing points to avoid	 For flat roofs proponding 	vvide proper drainay		Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	d Floor

1 - SPF 3.500" Vert 73% 2045 / 1765 3810 L D+	ge 17 of
2 1 Special of the second secon	
I SPF 6.3.8 2 SPF 0.3.8 dember Information 6%* Type: Girder Plents: 2 2 Design Method: Application: Floor Deflection L: Design Method: AsSD Building Code: Building Code: IS 2012 Deflection TL: 380 Importance: Normal - II Deflection TL: 380 Importance: Normal - II Moment: 548 fish 33*1 (422 fish 0.371 (47%) D+0.75(1+5) L Bearings Bearings Bearings Bearings Bearings Moment: 548 fish 33*1 (422 fish 0.371 (47%) D+0.75(1+5) L Unbraced 5348 fish 33*1 (422 fish<0.321 (24%) D+0.75(1+5) L Shear 2507 lb 55 1/4* 7943 is 0.508 (51%) D+0.75(1+5) L Unbraced 5348 fish 33*0 1.128 (247%) D+0.75(1+5) L Design Method: Associal (248 / b) Shear 2570 lb 55 1/4* 7943 is	1
Application: Floor Brading Brading Desk Sinow Wind Piles: 2 Disection Live Dead Snow Wind Defection LL: 480 Design Method: ASD Big Direction Live Dead Snow Wind Defection LL: 480 Deck: Not Checked 1 Vertical 1229 2045 1125 0 Defection LL: 480 Deck: Not Checked Eventical 1229 2045 1125 0 Importance: Normal - II Temperature: Temp <= 100"F	9.
Type: Girder Application: Floor Brg Direction Live Dead Snow Wind Piles: 2 Design Method: ASD Building Code: IBC 2012 Data Snow Design Method: ASD Deflection TL: 480 Deflection TL: 360 Deck: Not Checked Deck: Not Checked 2 Vertical 1229 2045 1125 0 Importance: Normal-II Temperature: Not Checked Deck: Not Checked Eearing Length Dir. Cap. React D/L Ib Total Ld. Case Ld. Inspress Asta field 33*14423 field 0.371 (37%) D40.75(L+S) L Dev 2 SPF 3.500" Vert 73% 2045 / 1785 3810 L D+4 Unbraced S348 field 0.371 (37%) D40.75(L+S) L LD. Design Notes LLD eff linch 0.39 (1038) 0.211 (J37%) D40.75(L+S) L Design Notes Eastal subcomment and rotation at the end bearings. Lateral support Devestor and ples using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 0". Eastal subcomment and rotation at the end bearings. Eastal subcomment and rotation at the end bear	
Type: Girder Application: Floor Brg Direction Live Dead Snow Wind Piles: 2 Design Method: ASD Building Code: IBC 2012 Data Snow Design Method: ASD Deflection TL: 480 Deflection TL: 360 Deck: Not Checked Deck: Not Checked 2 Vertical 1229 2045 1125 0 Importance: Normal-II Temperature: Not Checked Deck: Not Checked Eearing Length Dir. Cap. React D/L Ib Total Ld. Case Ld. Inspress Asta field 33*14423 field 0.371 (37%) D40.75(L+S) L Dev 2 SPF 3.500" Vert 73% 2045 / 1785 3810 L D+4 Unbraced S348 field 0.371 (37%) D40.75(L+S) L LD. Design Notes LLD eff linch 0.39 (1038) 0.211 (J37%) D40.75(L+S) L Design Notes Eastal subcomment and rotation at the end bearings. Lateral support Devestor and ples using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 0". Eastal subcomment and rotation at the end bearings. Eastal subcomment and rotation at the end bear	
Piles: 2 Design NetHod: ASD 1 Vertical 1229 2045 1125 0 Moisture Condition: Building Code: IBC 2012 0 2 Vertical 1229 2045 1125 0 Defection IL: 480 Decet Not Decet Not Checked 1 Vertical 1229 2045 1125 0 Importance: Normal - II Temp <<<10°F	Cons
Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Deck: Not Checked Deck: Not Checked Bearing Length Dir. Cap. React D/L Ib Total Ld. Case Analysis Actual Location Allowed Capacity Comb. Case Analysis Actual Location Allowed Capacity Comb. Case Moment 5348 ft-lb 33° 1423 ft-lb 0.371 (37%) D-0.75(L+S) L L Deck	Con
belection TL: 360 mortance: Normal - II mortance: Deck: Not Checked importance: Normal - II mortance: Temp <= 100"F	
nportance: Normal - II emperature: Temp <= 100°F	
Persperature: Temp <= 100°F Bearing Length Dir. Cap. React D/L Ib Total Ld. Case Ld. 1 SPF 3.500° Vert 73% 2045 / 1765 3810 L D+ 1 SPF 3.500° Vert 73% 2045 / 1765 3810 L D+ 1 SPF 3.500° Vert 73% 2045 / 1765 3810 L D+ 1 SPF 3.500° Vert 73% 2045 / 1765 3810 L D+ 1 SPF 3.500° Vert 73% 2045 / 1765 3810 L D+ 1 Provide supports 33° 10533 ft-b 0.508 (51%) D+0.75(L+S) L S	
Bearing: Bearing: Bearing: Bearing: Bearing: Cape Cape Cape Cape Vert 73% 2045 / 1765 3810 L halysis Results Actual Location Allowed Cape Cape Vert 73% 2045 / 1765 3810 L Jandard Cape Cape Vert 73% 2045 / 1765 3810 L Jandard Cape Cape Cape Jandard Cape Cape South Cape Jandard Cape Cape Cape Jandard Cape Cape Jandard Cape Cape Jandard Cape Cape Jandard Cape Cape Jano Jano Jano Jano	
nalysis Actual Location Allowed Capacity Comb. Case Analysis Actual Location Allowed Capacity Comb. Case Adment 5348 ft-lb 3'3" 14423 ft-lb 0.371 (37%) D+0.75(L+S) L Jinbraced 5348 ft-lb 3'3" 10533 ft-lb 0.508 (51%) D+0.75(L+S) L Jinbraced 5348 ft-lb 3'3" 0.511 (L/480) 0.292 (29%) 0.75(L+S) L L Defi Inch 0.044 (L/1645) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L L Defi Inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L Provide support to prevent lateral movement and rotation at the end bearings. Lateral support New Social at the interior bearings by the building code. New Social at the interior bearings by the building code. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support New Social at the interior bearings. New Social at the interior bearings. Refer to last page of calculations for fastemers required of the bottom edge only. Social at the interior bearings. Social at the interior bearings. Before to last page of calculations for fastemers required of the bottom edge only. Social at the interior bearings.	
nalysis Results Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 5348 ft-lb 3'3" 14423 ft-lb 0.371 (37%) D+0.75(L+S) L Jnbraced 5348 ft-lb 3'3" 10533 ft-lb 0.371 (37%) D+0.75(L+S) L Shear 2570 lb 5'5 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L L.D Efl inch 0.044 (L/1645) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L L.D Efl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support 2 Fasten all piles using 2 rows of 10d Box nails (128X3") at 12" o.c. Maximum end distance not to exceed 6". 4 3 Refer to last page of calculations for fasteners required or specified loads. 4 6 4 Girders are designed to be supported equally by all piles. 5 7 7 70 PLF 0 8 Lateral slendermess ratio ba	I. Comb
nalysis Results Analysis Actual Location Allowed Capacity Comb Case Moment 5348 ft-lb 3'3" 14423 ft-lb 0.371 (37%) D+0.75(L+S) L L Unbraced 5348 ft-lb 3'3" 10533 ft-lb 0.508 (51%) D+0.75(L+S) L L Shear 2570 lb 5'5 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L L LD Edf inch 0.044 (L/1645) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L L esign Nots TL Defl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L Provide support to prevent lateral movement and rotation at the end bearings. Lateral support as a constant of the building code. C 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral sign and the interior bearings by the building code. 4 2 Fasten all piles using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 4 Girders are designed to be supported on the bottom edge only. 5 5 Top loads must be laterally braced at end bearings. E E E 5 <td>+0.75(L+</td>	+0.75(L+
Analysis Actual Location Allowed Capacity Comb. Case Moment 5348 ft-lb 3'3" 1423 ft-lb 0.371 (37%) D+0.75(L+S) L Jnbraced 5348 ft-lb 3'3" 10533 ft-lb 0.508 (51%) D+0.75(L+S) L Shear 2570 lb 5'5 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L L Defl inch 0.044 (L/1645) 3'3" 0.151 (L/480) 0.292 (29%) 0.75(L+S) L L Defl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code. 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 Refer to last page of calculations for fasteners required for specified loads. 4 Girders are designed to be supported on the bottom edge only. 5 Top loads must be laterally braced at end bearings. 8 Lateral slendermess ratio based on single ply width. D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF F03 2 Uniform Top 346 PLF 0 PLF 0 PLF 0 PLF 0 PLF F03	+0.75(L+
Moment 5348 ft-lb 3'3" 14423 ft-lb 0.371 (37%) D+0.75(L+S) L Jnbraced 5348 ft-lb 3'3" 10533 ft-lb 0.508 (51%) D+0.75(L+S) L Shear 2570 lb 5'5 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L LL Defl inch 0.044 (L/1645) 3'3" 0.151 (L/480) 0.292 (29%) 0.75(L+S) L LD efl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support and reading the building code. 2 Pasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 Refer to last page of calculations for fasteners required for specified loads. 4 Girders are designed to be supported on the bottom edge only. 5 Top loads must be laterally braced at end bearings. 7 Bottom must be laterally braced at end bearings. 7 Bottom must be laterally braced at end bearings. 8 Lateral slenderness ratio based on single ply width. D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15	
Unbraced 5348 ft-lb 3'3" 10533 ft-lb 0.508 (51%) D+0.75(L+S) L Shear 2570 lb 55 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L LL Defl inch 0.044 (L/1645) 3'3" 0.151 (L/480) 0.292 (29%) 0.75(L+S) L TL Defl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes Image: Comparison of the provide support of prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code. 2 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 3 Refer to last page of calculations for fasteners required for specified loads. 4 4 Girders are designed to be supported on the bottom edge only. 5 5 Top loads must be laterally braced at end bearings. 5 7 Bottom must be laterally braced at end bearings. 5 8 Lateral slendermess ratio based on single ply width. 5 9 Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 126 PLF 378 PLF 0 PLF 0 P	
Shear 2570 lb 55 1/4" 7943 lb 0.324 (32%) D+0.75(L+S) L L. D eff inch 0.044 (L/1645) 3'3" 0.151 (L/480) 0.292 (29%) 0.75(L+S) L esign Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 3 Refer to last page of calculations for fasteners required for specified loads. 4 4 Girders are designed to be supported on the bottom edge only. 5 5 Top loads must be supported equally by all plies. 6 6 Top must be laterally braced at end bearings. 8 8 Lateral selenterness ratio based on single ply width. 1 D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF F03	
L Defl inch 0.044 (L/1645) 3'3" 0.151 (L/480) 0.292 (29%) 0.75(L+S) L L Defl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes I Provide support to prevent lateral movement and rotation at the end bearings. Lateral support and the interior bearings by the building code. 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 Refer to last page of calculations for fasteners required for specified loads. 4 Girders are designed to be supported on the bottom edge only. 5 Top loads must be supported equally by all plies. 5 Top must be laterally braced at end bearings. 8 Lateral slenderness ratio based on single ply width. D Load Type Location Trib Width Side Dead 0.9 Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF F03 C Uniform Top 346 PLF 0 PLF 0 PLF 0 PLF 0 PLF A3A	
TL Defl inch 0.095 (L/762) 3'3" 0.201 (L/360) 0.472 (47%) D+0.75(L+S) L esign Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code. 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". A Girders are designed to be supported on the bottom edge only. S For ploads must be supported equally by all plies. 5 Top loads must be laterally braced at end bearings. A Girder are designed to be supported equally by all plies. S For ploads must be laterally braced at end bearings. 7 Bottom must be laterally braced at end bearings. S Comments S Comments 3 Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF 60 PLF	
esign Notes Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code. 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 Refer to last page of calculations for fasteners required for specified loads. 4 Girders are designed to be supported on the bottom edge only. 5 Top loads must be supported equally by all plies. 6 Top nust be laterally braced at end bearings. 7 Bottom must be laterally braced at end bearings. 3 Lateral slenderness ratio based on single ply width. D Load Type Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF 0 PLF 0 PLF 0 PLF	
1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code. 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". 3 Refer to last page of calculations for fasteners required for specified loads. 4 Girders are designed to be supported on the bottom edge only. 5 Top must be laterally braced at end bearings. 7 Bottom must be laterally braced at end bearings. 3 Lateral slenderness ratio based on single ply width. D Load Type Location Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF 6 PLF 6 PLF 2 Uniform Top 346 PLF 0 PLF 0 PLF 0 PLF A3A	
I Uniform Top 126 PLF 378 PLF 0 PLF 0 PLF 0 PLF F03 2 Uniform Top 346 PLF 0 PLF 346 PLF 0 PLF 0 PLF 0 PLF A3A	
2 Uniform Top 346 PLF 0 PLF 346 PLF 0 PLF 0 PLF A3A	
Uniform Top 150 PLF 0 PLF 0 PLF 0 PLF 0 PLF WALL	
Self Weight 7 PLF	
otes chemicals 6. For flat roofs provide proper drainage to prevent Manufacturer Info	
Advalated Structured Designs is responsible only of the functural adequacy of this component based on the sign criteria and loadings shown. It is the sponsibility of the customer and/or the contractor to sponse functural details, beam strength values, and code splication, and to verify the dimensions and loads. umber	
Dry service conditions, unless noted otherwise 4. Design assumes to progress laterally resistance using points to avoid LVL not to be treated with fire retardant or corrosive 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	

		Client:	Signature Home B	uilders	Date:	11/7/2	2023	Page 18 of 2
	-	Project:	eignatare rienie z		Input		ony Williams	
	isDesign	Address:			Job N		iew Plan	
					Projec	-		
H6	Kerto-S LV	1 1 750")	(9 250"	2 Dly	PASSED	Level: Le	vel	
110			1 3.230	Z -F iy -	FASSED			
	• •	•	•	•	•		1	
	• •	•	•	•	•	•	1/2"	
								Å Å 9 1/-
	• •	•	•	•	•	• -	<u> </u>	
					2.00	PF 0-3-8		<i></i>
	1 SPF 0-3-8				2 SF	°F U-3-8		
			6'6"					1 13 1/2"
1			6'6"				1	
Multi	-Ply Analysis							
	all plies using 2 row	rs of 10d Poy pails	(100 ₂ ,2") at 12"	o c Mavim	um and distance	not to a	read F"	
Capacity			.12003) at 12	U.C Maxin		not to e	ceeu o .	
Load	y	0.0 PLF						
	nit per Foot	163.7 PLF						
Yield Lir См	nit per Fastener	81.9 lb. 1						
Yield Mo	ode	IV						
Edge Di		1 1/2"						
	d Distance ombination	3"						
Duration		1.00						
Notes		chemicals		6. For flat roofs pr	ovide proper drainage to preve		turer Info	
structural	d Structured Designs is responsible only adequacy of this component based of	n the 1. LVL beams must not be o	cut or drilled	ponding		Metsä W 301 Merr	ood itt 7 Building, 2nd Floor	
responsibi	criteria and loadings shown. It is ility of the customer and/or the contract he component suitability of the int	the 2. Refer to manufactur	er's product information requirements, multi-ply			Norwalk,	CT 06851	
application	n, and to verify the dimensions and loads	approvals	strength values, and code			(800) 622 www.me	z-5850 tsawood.com/us	
1. Dry se	ervice conditions, unless noted otherwise		e is laterally restrained at bearing points to avoid					
2. LVL no	ot to be treated with fire retardant or cor	rosive lateral displacement and	rotation	This desian is	s valid until 6/28/2026			1



			Client: Project:	Signature Home	Builders		Date: Input by:	11/7/2023 Anthony Williams	Pa	age 20 of 20
	esign		Address:				Job Name Project #:	e: Mayview Plan		
GDH-2	Kerto-S	LVL	1.750	" X 11.87	5" 2-P	Ply - PA	SSED	Level: Level		
										,
	•	•	•	•	•	•	•	• • •	/3_	1
	•	•		•	•				<11/2	11 7/8"
1 SPF 0-3-		-	-		-	-		2 SPF 0-3-8		_ <u>/</u>
				9'3	3"			ł	3 1/	/2"
/				9'1	0"			†		
Multi-Ply An	alvsis									
Fasten all plies			Box nails ((.128x3") at 12'	" o.c Maxii	mum end	distance no	ot to exceed 6".		
Capacity Load		0.0 % 0.0 PLF								
Yield Limit per Foo Yield Limit per Fas	t tener	163.7 PL 81.9 lb.	F							
См Yield Mode		1 IV								
Edge Distance Min. End Distance		1 1/2" 3"								
Load Combination Duration Factor		1.00								
Notes Calculated Structured De	einne je menoncikle e-t-		nicals ing & Installati	ion	 For flat roofs ponding 	provide proper dra	inage to prevent	Manufacturer Info Metsä Wood	-	
structural adequacy of t design criteria and I responsibility of the cust	his component based o oadings shown. It is omer and/or the contract	on the 1. LVL s the 2. Refe	beams must not be o r to manufactur					301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851		
ensure the component application, and to verify t Lumber	suitability of the int	ended faste . appr 3. Dam	ning details, beam ovals aged Beams must n	strength values, and code ot be used				(800) 622-5850 www.metsawood.com/us		
1. Dry service conditions 2. LVL not to be treated		4. Desi 5. Prov	gn assumes top edg	e is laterally restrained at bearing points to avoid		is valid until 6/	28/2026			