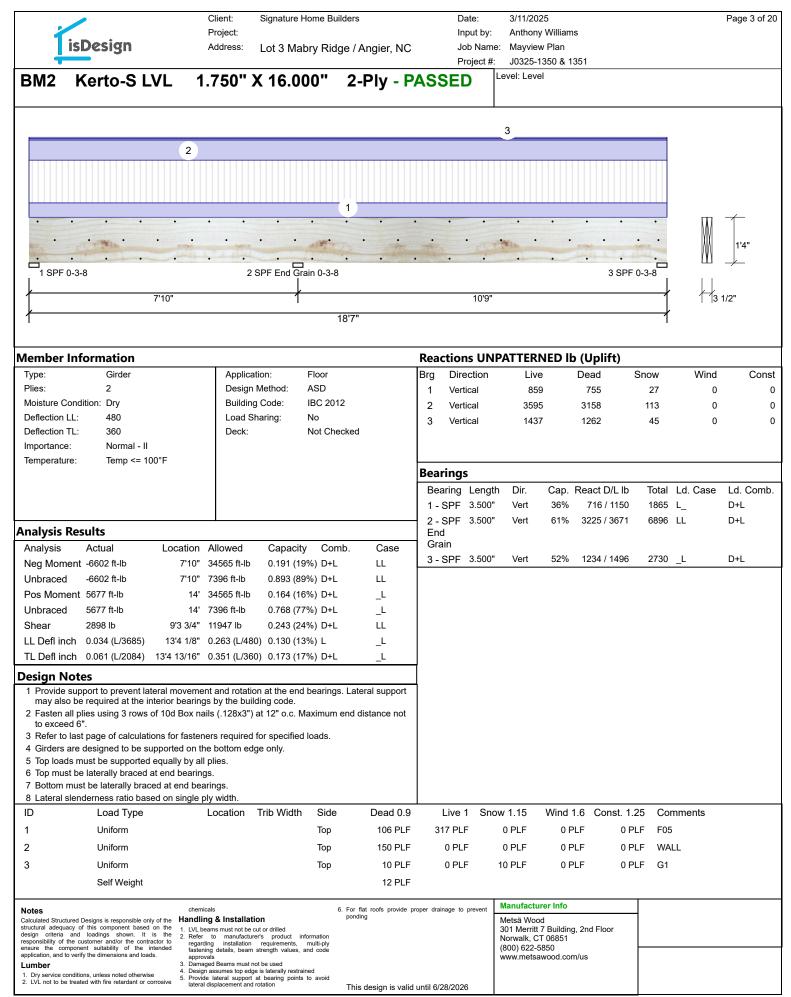


isDesign	Client: Project: Address:	Signature Home Builders Lot 3 Mabry Ridge / Angier, NC	Date: Input by: Job Name: Project #:	3/11/2025 Anthony Williams Mayview Plan J0325-1350 & 1351	Page 2 of 20
BM1 Kerto-S	LVL 1.750"	X 16.000" 2-Ply - F	PASSED	evel: Level	
,					
1 SPF 0-4-0	· · · · ·	· · · · ·	· · · ·	2 SPF (
1 SPF 0-4-0				2 SPF (
,		18'3 1/2" 18'3 1/2"			3 1/2"
I		18'3 1/2"			I
Capacity Load Yield Limit per Foot Yield Limit per Fastener CM Yield Mode Edge Distance Min. End Distance Load Combination Duration Factor	77.4 % 253.5 PLF 327.4 PLF 81.9 lb. 1 IV 1 1/2" 3" D+L 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	1. I VI beams must not be cut or drilled	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 Bui	ilders		Date:	3/11/2025		Page 4 of 20
1	icDocign	Project:				Input by:	Anthony Williams		
	isDesign	Address:	Lot 3 Mabry Ride	ge / Angier, I	NC	Job Name Project #:	: Mayview Plan J0325-1350 & 1351		
BM2	Kerto-S LVL	1 750"	X 16.000"	2-Ply -	PASSE		Level: Level		
			10.000	2 · · ·y					
									$\square \neq$
								1/2	M
						•			1'4"
1 SPF	- 0-3-8	2	SPF End Grain 0-3-8					3 SPF 0-3-8	
	7'10"		/			10'9"			3 1/2"
	710			1017"		109			3 1/2
I				18'7"					
	y Analysis								
Fasten al Capacity	l plies using 3 rows of	r TUG BOX halls (0 %	(.128x3°) at 12° (D.C Maximi	im ena ais	tance no	t to exceed 6".		
Load	0.0	0 PLF							
Yield Limit p Vield Limit p		5.6 PLF .9 lb.							
См	1								
Yield Mode Edge Distan		1/2"							
Min. End Distan									
Load Combi		20							
Duration Fa	ctor 1.0	00							
Net		chemicals		Ear flat marts -	ido proper desta	to prove t	Manufacturer Info	[
Notes Calculated Strue	ictured Designs is responsible only of the quacy of this component based on the	Handling & Installat	ion	 For flat roofs prov ponding 	iae proper drainage	to prevent	Metsä Wood		
design criteria responsibility of	a and loadings shown. It is the of the customer and/or the contractor to	2. Refer to manufactur regarding installation					301 Merritt 7 Building, 2nd I Norwalk, CT 06851	-100r	
ensure the co application, and	omponent suitability of the intended to verify the dimensions and loads.	fastening details, beam approvals	strength values, and code				(800) 622-5850 www.metsawood.com/us		
Lumber 1. Dry service	conditions, unless noted otherwise	 Damaged Beams must n Design assumes top edg Provide lateral support 	e is laterally restrained						
2. LVL not to b	be treated with fire retardant or corrosive	lateral displacement and	rotation	This design is	valid until 6/28/2	026			

i	sDesign	Project:	Home Builders bry Ridge / Angier, NC	Date: Input by: Job Nam	3/11/2025 Anthony Williams e: Mayview Plan		Page 5 of 2
Ţ.		1.750" X 16.0		Project #	J0325-1350 & 1351 Level: Level		
•	1	•				M	1'4"
1 SPF 0	-3-8 2 SPF 0- 4'2" 4'2"	-3-8					1/2"
Member Ir	nformation			Reactions UN	PATTERNED lb (Uplift)		
Type: Plies: Moisture Cor Deflection LL Deflection TL Importance:	.: 480 .: 360 Normal - II	Application: Design Method: Building Code: Load Sharing: Deck:	Floor ASD IBC 2012 No Not Checked	Brg Direction 1 Vertical 2 Vertical	Live Dead 763 280 763 280	Snow Wind 0 0 0 0	Con
Temperature	: Temp <= 100°F			Bearings Bearing Lengt 1 - SPF 3.500"	-	Total Ld. Case	Ld. Com D+L
Analysis Ro	oculto			2 - SPF 3.500"		1043 L	D+L
Analysis Moment Unbraced Shear LL Defl inch	Actual Locati 870 ft-lb 2 870 ft-lb 2 897 ft-lb 2 897 lb 2'6 1 1 0.002 2'1 1/* (L/22654) 2'1 1/*	ion Allowed Capacit 2'1" 34565 ft-lb 0.025 (3' 2'1" 27947 ft-lb 0.031 (3' /2" 11947 lb 0.075 (8' 16" 0.093 (L/480) 0.021 (2' 16" 0.124 (L/360) 0.022 (2'	No D+L L Model D+L L Model D+L L Model L L				
Design No	tes	ement and rotation at the end	booringo Latoral cunnert				
may also l 2 Fasten all to exceed	be required at the interior beau plies using 3 rows of 10d Bo 6".	arings by the building code. x nails (.128x3") at 12" o.c. N	laximum end distance not				
4 Girders ar 5 Top must 6 Bottom m	ast page of calculations for fa e designed to be supported of be laterally braced at end bea ust be laterally braced at end enderness ratio based on sing	arings. I bearings.	loads.				
ID 1	Load Type Uniform	Location Trib Width	Near Face 122 PLF	366 PLF	w 1.15 Wind 1.6 Const. 1. 0 PLF 0 PLF 0 F	25 Comments PLF F08	
structural adequacy	d Designs is responsible only of the dominant to the dominant	chemicals Indling & Installation	6. For flat roofs provide ponding	proper drainage to prevent	Manufacturer Info Metsä Wood 301 Meritt 7 Building, 2nd Floor	_	
design criteria and responsibility of the ensure the comprise application, and to v Lumber 1. Dry service cond	nd loadings shown. It is the 2. customer and/or the contractor to onent suitability of the intended erify the dimensions and loads. Ititions, unless noted otherwise study diff for sufferded the second on 5.	LVL beams must not be cut or anileo Refer to manufacturer's product in regarding installation requirements, fastening details, beam strength values, approvals Damaged Beams must not be used Design assumes top edge is laterally restra Provide lateral support at bearing points lateral displacement and rotation	multi-ply and code ined	d until 6/28/2026	Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us		

	Client:	Signature Home Bu	ilders	Date:	3/11/2025	Page 6 of 20
isDesign	Project: Address:	Lot 3 Mabry Rid	ae / Angier NC	Input by: Job Name:	Anthony Williams Mayview Plan	
	/ durooo.	LOT 5 Mably Ru		Project #:	J0325-1350 & 1351	
BM3 Kerto-S LVL	1.750"	X 16.000"	2-Ply - PAS	SED	evel: Level	
				1		
						\mathbb{M}^{-1}
	\cdot					1'4"
1 SPF 0-3-8 2 SPF 0-	3-8					
4'2"						3 1/2"
4'2"						
Multi-Ply Analysis						

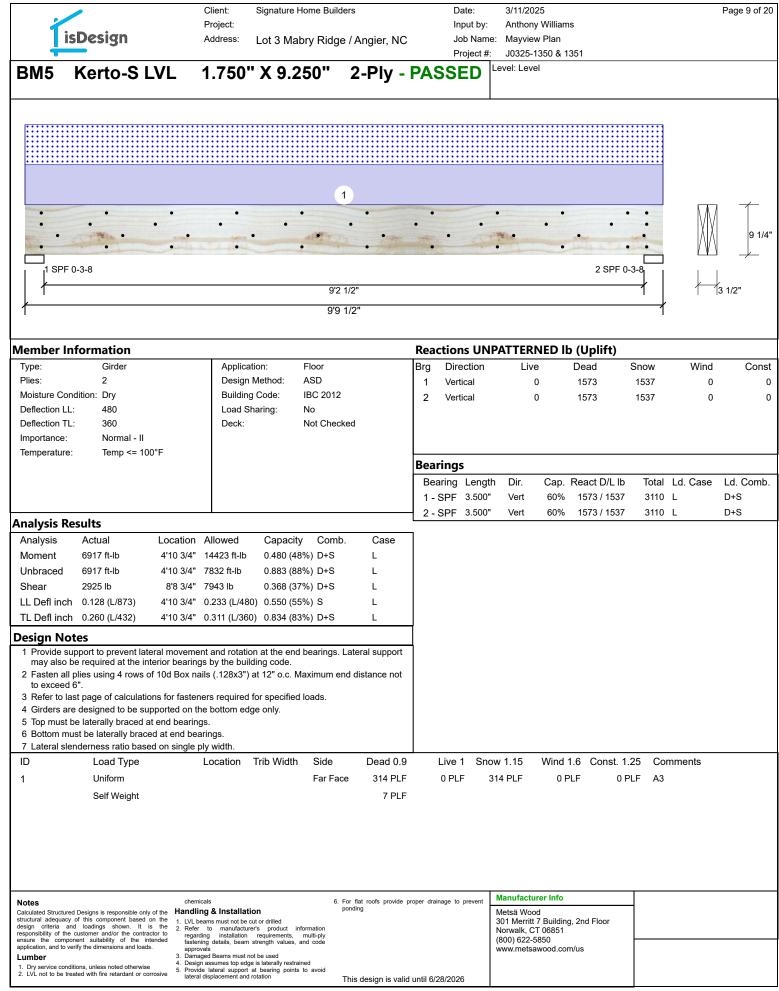
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

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	

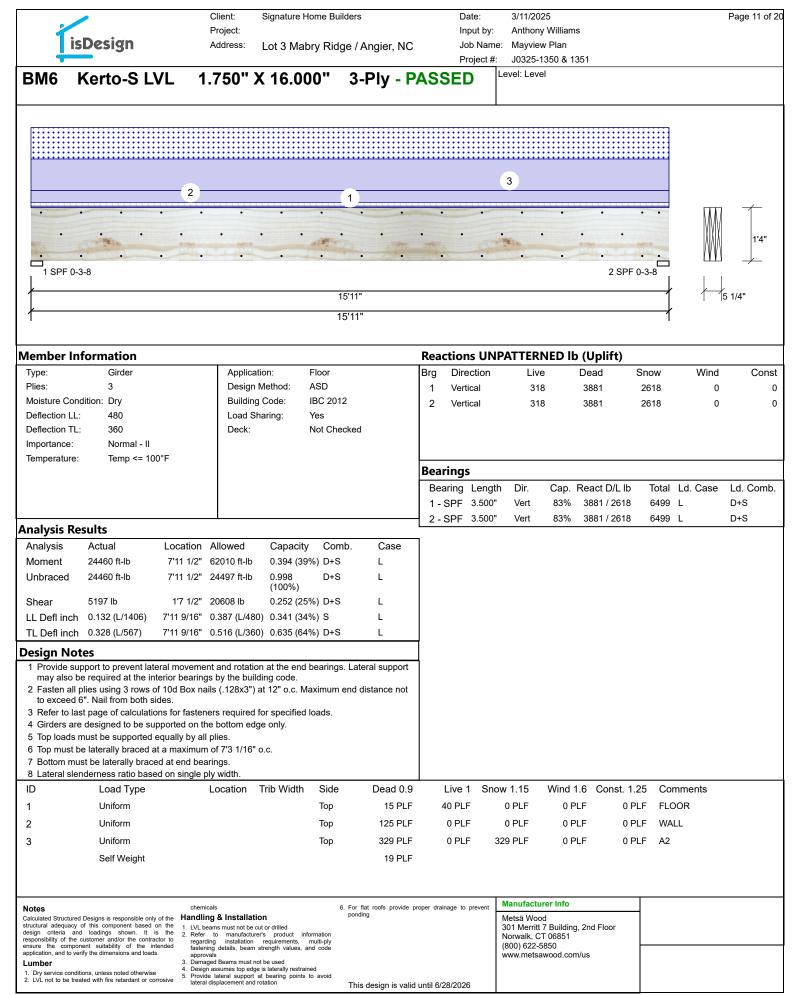
Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure 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 Refer 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 Design 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	

Ťi	sDesign	Project:	ature Home Builde 3 Mabry Ridge		Date: Input by: Job Nam	-	IS		Page 7 of :
BM4	Kerto-S LVL	1.750" X 1	6.000" 2	2-Ply - F	Project #	: J0325-1350 & 1 Level: Level	351		
			3						
1 SPF (2 		25	SPF 0-3-8					1'4"
		8'3 1/2"						f	8 1/2"
1		8'3 1/2"		1					
/ombor l	nformation				Reactions IIN	IPATTERNED I	h (I Inlift)		
Туре:	Girder	Application:	Floor		Brg Direction	Live		Snow Wind	Cor
Plies: Moisture Co Deflection L Deflection T Importance:	L: 480 L: 360 Normal - II	Design Metho Building Cod Load Sharing Deck:	e: IBC 2012	ed	1 Vertical 2 Vertical	166 166	1892 1892	1364 0 1364 0	
Temperature	e: Temp <= 100°F				Bearings				
					Bearing Lengt 1 - SPF 3.500' 2 - SPF 3.500'	" Vert 63%	React D/L lb 1892 / 1364 1892 / 1364	Total Ld. Case 3256 L 3256 L	Ld. Com D+S D+S
Analysis R	lesults					Vent 05%	1092 / 1304	3230 L	D+3
	6057 ft-lb 4'1 6057 ft-lb 4'1 1997 lb 1'7 h 0.017 (L/5541) 4'1 1'3	3/4" 39750 ft-lb 0.1 3/4" 15114 ft-lb 0.4		Case L L L L					
Design No				_	1				
 Provide s may also Fasten al to exceed Refer to I Girders a Top loads Top must Bottom m 	support to prevent lateral mo be required at the interior b I plies using 3 rows of 10d B	earings by the building c Box nails (.128x3") at 12' fasteners required for sp d on the bottom edge onl by all plies. bearings. nd bearings.	ode. o.c. Maximum end ecified loads.						
ID	Load Type	Location Trib	Nidth Side	Dead 0.9	Live 1 Sn	ow 1.15 Wind	1.6 Const. 1.	25 Comments	
1	Uniform		Тор	15 PLF			PLF 0P		
2 3	Uniform Uniform		Тор Тор	100 PLF 329 PLF				LF WALL LF A2	
0	Self Weight		юр	329 PLF 12 PLF					
tructural adequad esign criteria a esponsibility of th	y of this component based on the	chemicals Handling & Installation 1. U/L beams must not be cut or drill 2. Refer to manufacturer's pro regarding installation require featening defaile. beam stempt	ed oduct information ements, multi-ply	or flat roofs provide onding	proper drainage to prevent	Manufacturer Info Metsä Wood 301 Merritt 7 Buildin Norwalk, CT 06851 (800) 622-5850	g, 2nd Floor		
application, and to Lumber 1. Dry service con	verify the dimensions and loads.	fastening details, beam strength approvals 3. Damaged Beams must not be use 4. Design assumes top edge is later 5. Provide lateral support at beari lateral displacement and rotation	d ally restrained ng points to avoid	his design is vali	d until 6/28/2026	www.metsawood.co	m/us		

1	Client: Signature Home B Project:		Date: 3/11/2025 Input by: Anthony Williams	Page 8 of 2
isDesign	Address: Lot 3 Mabry Rid		Job Name: Mayview Plan Project #: J0325-1350 & 1351	
BM4 Kerto-S L	VL 1.750" X 16.000"			
	· · · · ·			1'4"
• • • 1 SPF 0-3-8	• • • •	2 SPF 0-3-8		
	8'3 1/2" 8'3 1/2"			1/2"
Multi-Ply Analysis				
Fasten all plies using 3 rov Capacity	ws of 10d Box nails (.128x3") at 12"	o.c Maximum end dist	ance not to exceed 6".	
Load	0.0 PLF			
Yield Limit per Foot Yield Limit per Fastener	245.6 PLF 81.9 lb.			
Cм Yield Mode	1 IV			
Edge Distance	1 1/2"			
Min. End Distance Load Combination	3"			
Duration Factor	1.00			
Notes	chemicals	6. For flat roofs provide proper drainage	to prevent Manufacturer Info	
Calculated Structured Designs is responsible onl structural adequacy of this component based	y of the Handling & Installation	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	
design criteria and loadings shown. It responsibility of the customer and/or the contra- ensure the component suitability of the in	is the 2. Refer to manufacturer's product information actor to regarding installation requirements multiply		Norwalk, CT 06851 (800) 622-5850	
application, and to verify the dimensions and load	Is. approvals 3. Damaged Beams must not be used		www.metsawood.com/us	
 Dry service conditions, unless noted otherwis LVL not to be treated with fire retardant or conditional service conditions. 	e 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 6/28/2	126	
Version 22.40.705 Dowered by iStructT		This design is valid unul 0/28/20	J20	



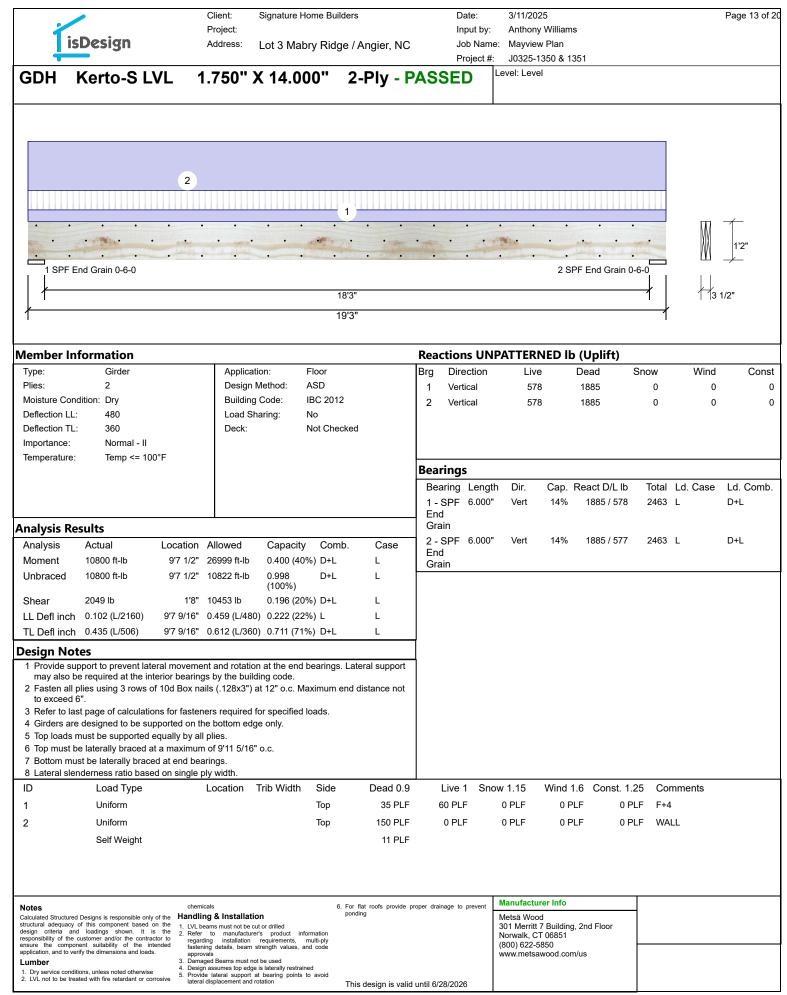
isDesign	Client: Project: Address:	Signature Home Bu Lot 3 Mabry Rid		Date: Input by: Job Nam			Page 10 of 20
	1 760'			Project #	J0325-1350 & 1351 Level: Level		
BM5 Kerto-S LVL	. 1./50	' X 9.250"	2-PIY -	PASSED			
• • •	•	•	•	• •	• •	••	13
•••	•	• •	•	•	•••	••+	<u> </u>
1 SPF 0-3-8						2 SPF 0-3-8	
			9'2 1/2"				3 1/2"
1		9	'9 1/2"			1	
Multi-Ply Analysis							
Fasten all plies using 4 rows of	10d Box nails	(.128x3") at 12"	o.c Maximum	end distance n	ot to exceed 6".		
Load 314	4.0 PLF						
Yield Limit per Fastener 94.	6.5 PLF 1 lb.						
Cm 1 Yield Mode IV							
Edge Distance 1 1	/2"						
Min. End Distance 3" Load Combination D+	S						
Duration Factor 1.1							
	abanais = 1-		C. For first works	manage deployments	Manufacturer Info		
Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	chemicals Handling & Installati 1. LVL beams must not be of	ion	 For flat roofs provide ponding 	proper drainage to prevent	Metsä Wood 301 Merritt 7 Building, 2nd	Floor	
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended	 Refer to manufactur regarding installation 	er's product information requirements, multi-ply strength values, and code			Norwalk, CT 06851 (800) 622-5850		
application, and to verify the dimensions and loads.	approvals 3. Damaged Beams must n 4. Design assumes top edg	ot be used			www.metsawood.com/us		
 Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive 	 5. Provide lateral support lateral displacement and 	at bearing points to avoid	This design is vali	d until 6/28/2026			



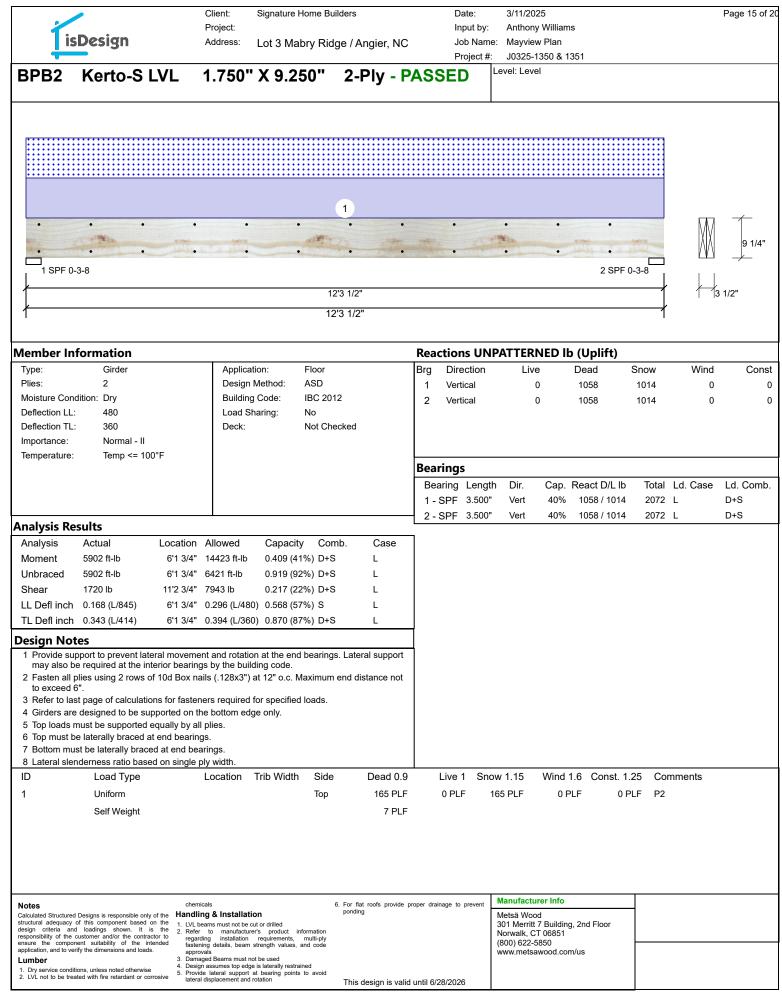
1	isDesign	Client: Project: Address:	Signature Home Bu		Date: Input by: Job Name: Project #:	3/11/2025 Anthony Williams Mayview Plan J0325-1350 & 1351		Page 12 of 2
BM6	Kerto-S LVL	1.750"	X 16.000"	3-Ply - PAS	SED	evel: Level		
								,
	· · · ·	•••	· · ·	· · · ·	• •	• •	· · · · · · · · · · · · · · · · · · ·	1'4"
	F 0-3-8			15'11"			2 SPF 0-3-8	5 1/4"
∤				15'11"				3 1/4
	y Analysis I plies using 3 rows of 1 0.0 9		(.128x3") at 12"	o.c Nail from both	sides. Maxin	num end distance	not to exceed	

Capacity	0.0 %
Load	0.0 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	
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	LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements multiply	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	
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	(800) 622-5850 www.metsawood.com/us	



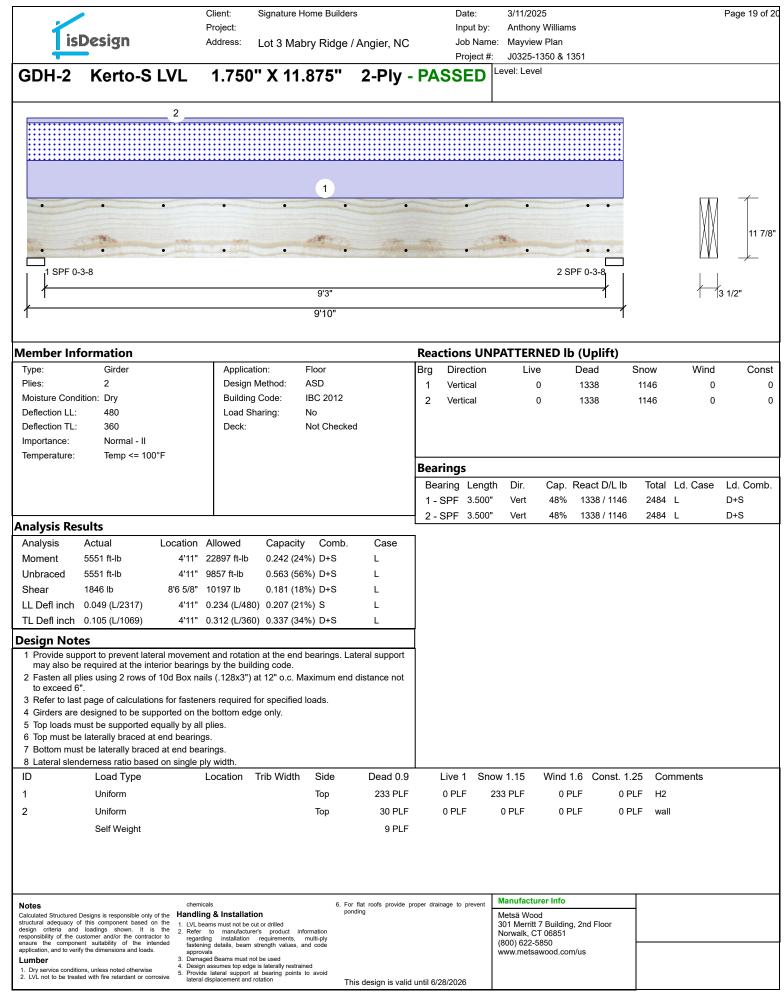
1	isDesign	Client: Project: Address:	Signature Home B		I NC J	Date: nput by: lob Name Project #:	3/11/2025 Anthony Williams Mayview Plan J0325-1350 & 1351		Page 14 of
GDH	Kerto-S L\	/L 1.750"	X 14.000"	2-Ply	PASSE	D	evel: Level		
•	• • •	· · ·	· · ·	•••	• •	•	· · · · ·		1'2"
1 SP	• • • • PF End Grain 0-6-0	• • •	•••	• •	<u>· ·</u>	•	• • • • • 2 SPF End Grain 0		<u> </u>
				18'3"					3 1/2"
∤				19'3"					
-	y Analysis								
asten all Capacity	l plies using 3 rows	s of 10d Box nails	(.128x3") at 12"	o.c Maximi	um end dista	ance no	t to exceed 6".		
oad ield Limit p	er Foot	0.0 PLF 245.6 PLF							
eld Limit p	er Fastener	81.9 lb.							
w eld Mode		1 IV							
dge Distan		1 1/2"							
lin. End Dis bad Combi		3"							
ouration Fac		1.00							
Notes		chemicals		6. For flat roofs prov	vide proper drainage t	o prevent	Manufacturer Info		
Calculated Struc structural adequ	ctured Designs is responsible only o uacy of this component based or	of the Handling & Installa		ponding			Metsä Wood 301 Merritt 7 Building, 2nd Floor		
design criteria	and loadings shown. It is the customer and/or the contract opponent suitability of the inte	the 2. Refer to manufactu or to regarding installation	rer's product information requirements, multi-ply				Norwalk, CT 06851		
application, and	omponent suitability of the inte to verify the dimensions and loads.	nded fastening details, bear approvals 3. Damaged Beams must	n strength values, and code				(800) 622-5850 www.metsawood.com/us		
	conditions, unless noted otherwise	 Design assumes top ec Provide lateral support 	ge is laterally restrained t at bearing points to avoid						
L. LVL HOT TO D	e treated with fire retardant or corre	lateral displacement an	d rotation	This design is	valid until 6/28/20	26		1	



1	isDesign	Pr	oject:	gnature Home Bu ot 3 Mabry Rid		NC	Date: Input by: Job Name Project #:	3/11/2025 Anthony Williams Mayview Plan J0325-1350 & 1351		Page 16 of 2
BPB2	Kerto-S	LVL 1	.750")	(9.250"	2-Ply -	PASSE		Level: Level		
•	• •	•	•	•	•	•	•	• •		9 1/4"
1 SPF	• •	•	•	•	•	•	•	• •	•¥ (\) 2 SPF 0-3-8	
					2'3 1/2" 2'3 1/2"					3 1/2"
	Analysis plies using 2 row		x nails (.12	28x3") at 12" (o.c Maxim	um end dis	tance no	ot to exceed 6".		
Capacity Load Yield Limit pe	r Foot	0.0 % 0.0 PLF 163.7 PLF								
Yield Limit pe Cm		81.9 lb. 1								
Yield Mode Edge Distanc	e	IV 1 1/2"								
Min. End Dist Load Combin	ation	3"								
Duration Fact	tor	1.00								
									I	
Notes Calculated Structu	ured Designs is responsible only				For flat roofs proponding	vide proper drainage	to prevent	Manufacturer Info Metsä Wood		
design criteria responsibility of t	acy of this component based of and loadings shown. It is the customer and/or the contra- popent suitability of the inter-	s the 2. Refer to ctor to regarding	installation re-	product information quirements, multi-ply				301 Merritt 7 Building, 2nd Norwalk, CT 06851 (800) 622-5850	l Floor	
application, and to	nponent suitability of the into verify the dimensions and loads	approvals 3. Damaged	details, beam strei Beams must not be	ngth values, and code				(800) 622-5850 www.metsawood.com/us		
1. Dry service co	nditions, unless noted otherwise treated with fire retardant or co	5. Provide la	sumes top edge is I teral support at b lacement and rotat	aterally restrained earing points to avoid ion	This design is	valid until 6/28/2	026			

		Client: Signature	Home Builders	3	Date	e: 3/11/2)25			Page 17 of
	•	Project:			Inpu	ut by: Anthor	ny Williams			Ū
isDes	sign	Address: Lot 3 Ma	abry Ridge /	Angier, NC		-	ew Plan			
			0" 0			ect #: J0325	·1350 & 1351 /el			
H6 Kerto	o-S LVL 1.	750" X 9.25	0 2-	Ply - PA	199ED					
				2						
				3						
	2			<u></u>	<u></u>	<u></u>				
	2									
		1_								/_
•	• •	•			•	•			ΝΛ	1 1
			- Call Control of Cont						XI)	9 1
	•	• • • •		•	•	ALL PAR			/ Υ	
1 SPF 0-3-8					2	SPF 0-3-8			I	Í
f		6'6"				,	/		<u>/</u>	3 1/2"
/		6'6"				,	/			
/lember Inform	ation				Reactions	UNPATTER	NED lb (Up	lift)		
71	Girder	Application:	Floor		Brg Direc	tion Liv	ve Dead	Sno	ow Wind	Cons
Plies: Moisture Condition:	2 Dr/	Design Method: Building Code:	ASD IBC 2012		1 Vertic				25 0	
	480	Load Sharing:	No		2 Vertic	al 12:	29 2045	9 11	25 0	
	360	Deck:	Not Checked	1						
Importance:	Normal - II									
Temperature:	Temp <= 100°F			-						
					Bearings			<u> </u>	T + + + + 0	
					Bearing L	-	Cap. React		Total Ld. Case	Ld. Comb
					1 - SPF 3 2 - SPF 3				3810 L 3810 L	D+0.75(L+ D+0.75(L+
nalysis Results				l	2-0110		1070 2040	// 1/00	5010 L	D:0.70(L)
Analysis Actu	al Location	Allowed Capaci	ty Comb.	Case						
Moment 5348	ft-lb 3'3"	14423 ft-lb 0.371 (3	57%) D+0.75(L	+S) L						
Unbraced 5348			51%) D+0.75(L							
Shear 2570			2%) D+0.75(L	·						
LL Defl inch 0.044		0.151 (L/480) 0.292 (2		·						
TL Defl inch 0.095	5 (L/762) 3'3"	0.201 (L/360) 0.472 (4	7%) D+0.75(L	.+S) L						
esign Notes										
	o prevent lateral movemer ired at the interior bearing		d bearings. La	teral support						
	sing 2 rows of 10d Box nai	ls (.128x3") at 12" o.c.	Maximum end	distance not						
to exceed 6". 3 Refer to last page	of calculations for fastene	ers required for specifie	d loads.							
	ned to be supported on the									
	e supported equally by all									
	ally braced at end bearing aterally braced at end bea									
	ss ratio based on single p	-								
ID Lo	bad Type	Location Trib Width	n Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6 C	onst. 1.25	Comments	
1 Ur	niform		Тор	126 PLF	378 PLF	0 PLF	0 PLF	0 PLF	F03	
2 Ur	niform		Тор	346 PLF	0 PLF	346 PLF	0 PLF	0 PLF	A3A	
3 Ur	hiform		Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
Se	elf Weight			7 PLF						
								r		
Notes Calculated Structured Designs i	chemic	^{als} g & Installation	6. For pone	flat roofs provide pro ding	oper drainage to pr	event Manufact Metsä Wo				
structural adequacy of this co design criteria and loading	omponent based on the 1. LVL be is shown. It is the 2 Refer	ams must not be cut or drilled to manufacturer's product				301 Merri	t 7 Building, 2nd F	loor		
esponsibility of the customer and the customer and the component suita	and/or the contractor to ability of the intended fasteni	ng installation requirements, ng details, beam strength values,	multi-ply			Norwalk, ((800) 622	-5850			
pplication, and to verify the dim _umber	nensions and loads. approv 3. Damag	als ed Beams must not be used				www.mets	awood.com/us			
 Dry service conditions, unles LVL not to be treated with fi 	5. Provide	assumes top edge is laterally restr e lateral support at bearing point displacement and rotation	ts to avoid	e design is velid :	until 6/20/2020					
	addian.		Thi	s design is valid ι	anui 0/28/2026					

	isDesign	Client: Signature Hor Project: Address: Lot 3 Mabry	ne Builders / Ridge / Angier, NC	Date: 3/11/2025 Input by: Anthony Williams Job Name: Mayview Plan Project #: J0325-1350 & 1351	Page 18 of 2
H6	Kerto-S LVL	1.750" X 9.250'	' 2-Ply - PAS	SED Level: Level	
	•	• •	•	• • -	
	•		•	• • • • • • • • • • • • • • • • • • •	9 1/
] 1 SPF 0-3-8	6'6"		2 SPF 0-3-8	3 1/2"
		6'6"			
	Ply Analysis				
Fasten Capacity Load		of 10d Box nails (.128x3") at 0.0 % 0.0 PLF	12" o.c Maximum end	distance not to exceed 6".	
Yield Lim Yield Lim	nit per Foot nit per Fastener	163.7 PLF 81.9 lb.			
Cm Yield Mo	de	1 IV 1.1 (0)			
	Distance	1 1/2" 3"			
Load Co Duration	mbination Factor	1.00			
Notes	Structured Decisions in season with and	chemicals	 For flat roofs provide proper dr ponding 		_
structural a design cr responsibil	Structured Designs is responsible only of the adequacy of this component based on the iteria and loadings shown. It is the ity of the customer and/or the contractor	1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product inform to recording installation requirements must be to be a set of the table to be a set of the table to be a set of the table to be a set of table table to be a set of table to be a set of table table to be a set of table table to be a set of table table table to be a set of table	nation	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	
ensure th	e component suitability of the intende , and to verify the dimensions and loads.	 regarding installation requirements, mu fastening details, beam strength values, and approvals Damaged Beams must not be used 	ոս-թոչ code	(800) 622-5850 www.metsawood.com/us	
1. Dry ser	vice conditions, unless noted otherwise t to be treated with fire retardant or corrosi	 Design assumes top edge is laterally restrained Dravide lateral support at bearing points to 	^{avoid} This design is valid until 6	5/28/2026	



is	Design		Client: Project: Address:	Signature Home E	Builders idge / Angier, N	Date: Input by C Job Nar		Page 20 of 20
GDH-2	Kerto-S	IVI	1 750			Project :	#: J0325-1350 & 1351 Level: Level	
	Nento-o		1.750		5 2-i iy			
	•	•	•		•		· · · · ·	
								"CT 11 7/8"
	•	•	•	•	•	• •	· · · -	
1 SPF 0	-3-8			9'3	'n		2 SPF 0-3-8	3 1/2"
				9'10			ł	1 10 112
Multi-Ply A	nalvsis							
Fasten all pli	-		Box nails	(.128x3") at 12"	' o.c Maximur	n end distance r	not to exceed 6".	
Capacity Load		0.0 % 0.0 PLF	_					
Yield Limit per F Yield Limit per F		163.7 PL 81.9 lb.	F					
См Yield Mode		1 IV						
Edge Distance Min. End Distand	ce	1 1/2" 3"						
Load Combination		1.00						
Duration ractor		1.00						
							Monufactures Info	
Notes Calculated Structured	Designs is responsible only	of the Handl	^{nicals} Ing & Installat	ion	For flat roofs provide ponding	e proper drainage to prevent	Manufacturer Info Metsä Wood	-
structural adequacy of design criteria and responsibility of the of	of this component based of loadings shown. It is sustomer and/or the contract	on the 1. LVL I s the 2. Refe ctor to rega	beams must not be r to manufactu				301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	
ensure the compon application, and to ver	ent suitability of the int ify the dimensions and loads	tended faste	rding installation ening details, beam rovals naged Beams must r	strength values, and code			(800) 622-5850 www.metsawood.com/us	
1. Dry service conditi 2. LVL not to be treat	ons, unless noted otherwise ted with fire retardant or co	4. Desi 5. Prov	gn assumes top edg	ge is laterally restrained at bearing points to avoid				
1		iater	a displacement and	rotadum	This design is va	lid until 6/28/2026	1	1