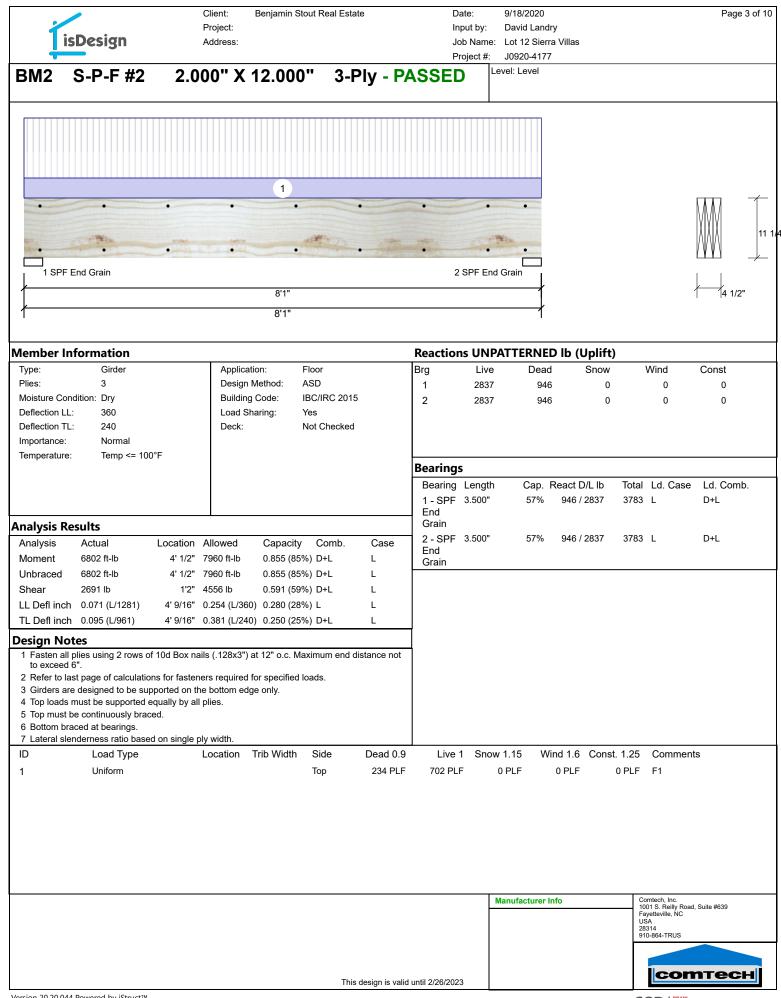
1		Client: Benjamin St Project:	out Real Estate	Date: Input b	9/18/2020 by: David Landry			Page 1 of 1
is	Design	Address:		Job Na Project	ame: Lot 12 Sierra Villa t #: J0920-4177	s		
BM1 k	Kerto-S LVL	1.750" X 14.00	0" 2-Ply - F		Level: Level			
			° , .					
		3					M	
1 SPF	Contraction of the second seco						M	1'2"
	6'							1/2"
<u>}</u>	6'						1 1-	
Member Inf	formation				NPATTERNED Ib	(Uplift)		
Type: Plies: Moisture Conc Deflection LL: Deflection TL:	480 360	Design Method: Building Code: Load Sharing:	Floor ASD BC/IRC 2015 No Not Checked	1 9	Live Dead 951 891 951 891	Snow 0 0	Wind Con 0 0	st 0 0
Importance: Temperature:	Normal Temp <= 100°F							
·	·			Bearings				
				Bearing Len 1 - SPF 3.50			al Ld. Case Ld. 2 L D+L	Comb.
	•			2 - SPF 3.50			2 L D+L	
Analysis Res Analysis	sults Actual Locat	ion Allowed Capacity	Comb. Case	7				
Moment	2357 ft-lb	3' 26999 ft-lb 0.087 (9%						
Unbraced	2357 ft-lb	3' 26999 ft-lb 0.087 (9%) D+L L					
Shear		1/4" 10453 lb 0.141 (149	·					
	0.007 (L/9415)	3' 0.139 (L/480) 0.050 (5%	-					
	0.014 (L/4862)	3' 0.185 (L/360) 0.070 (7%) D+L L	-				
Design Not 1 Fasten all p		ox nails (.128x3") at 12" o.c. Ma	aximum end distance not	-				
3 Girders are4 Top loads m5 Top must be6 Bottom brace		by all plies.	oads.					
ID	Load Type	Location Trib Width	Side Dead 0.9	Live 1 S	Snow 1.15 Wind 1.	6 Const. 1.25	Comments	
1	Uniform		Top 120 PLF	0 PLF	0 PLF 0 PL	F 0 PLF	Wall Above	
2	Uniform		Top 60 PLF	0 PLF	0 PLF 0 PL			
3	Uniform		Far Face 106 PLF		0 PLF 0 PL	F 0 PLF	F2	
	Self Weight		11 PLF					
Notes		chemicals	6. For flat roofs provide	proper drainage to preven	Manufacturer Info		Comtech, Inc. 1001 S. Reilly Road, Suite #6	39
Calculated Structured structural adequacy of design criteria and responsibility of the c ensure the compone application, and to veri Lumber 1. Dry service conditio	loadings shown. It is the 2. ustomer and/or the contractor to ent suitability of the intended fy the dimensions and loads. 3. 4.		ponding rmation nulti-phy d code ad		Metsä Wood 301 Merritt 7 Building, Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/ ICC-ES: ESR-3633	2nd Floor	Tou's s. Reilly Road, Suite #R Fayetteville, NC USA 28314 910-864-TRUS	

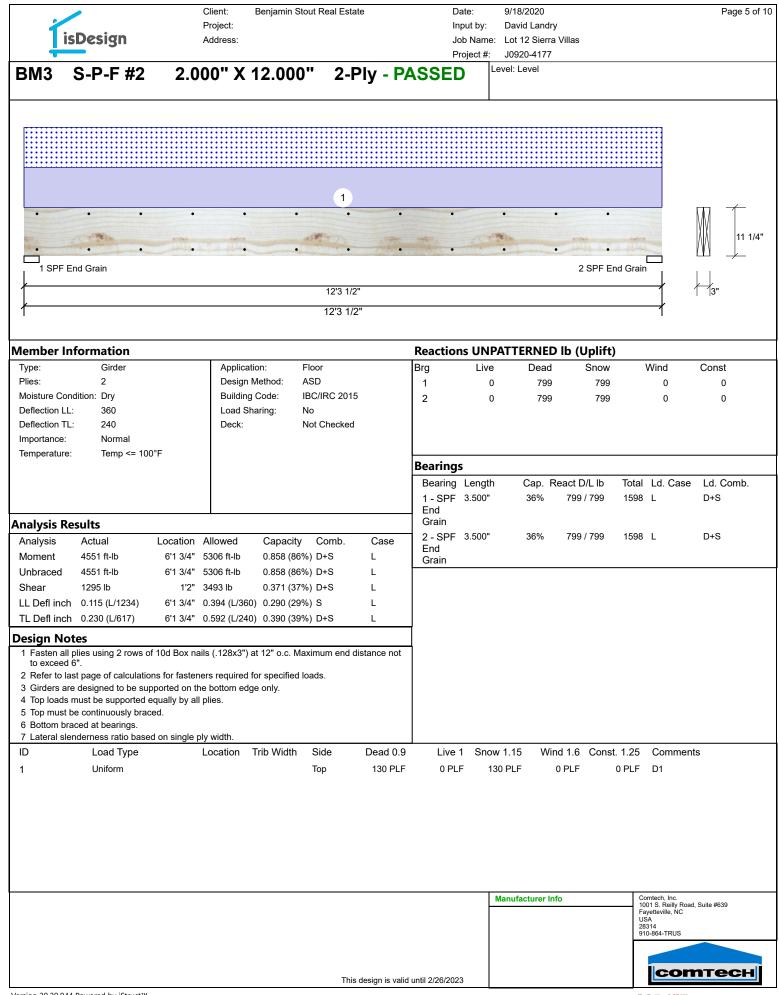
Client: Benjamin Stout F Project: Address:	Input b	ame: Lot 12 Sierra Villas	Page 2 of 1
BM1 Kerto-S LVL 1.750" X 14.000"	2-Ply - PASSED	Level: Level	
	<1 1/2"		1'2"
1 SPF 2 SPF	⊐─ ⊼ ┥		 _ 3 1/2"
6'	4		
Multi-Ply Analysis			
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12 Capacity 86.1 % Load 211.5 PLF	" o.c Maximum end distance	not to exceed 6"	
Yield Limit per Foot245.6 PLFYield Limit per Fastener81.9 lb.			
/ield Mode IV Edge Distance 1 1/2"			
Ain. End Distance 3"			
Load Combination D+L Duration Factor 1.00			
Notes chemicals	6. For flat roofs provide proper drainage to prever	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
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 ensure the component suibability of the intended	ponding Y	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	Fayetteville, NC USA 28314 910-864-TRUS
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		www.metsawood.com/us ICC-ES: ESR-3633	соттесн
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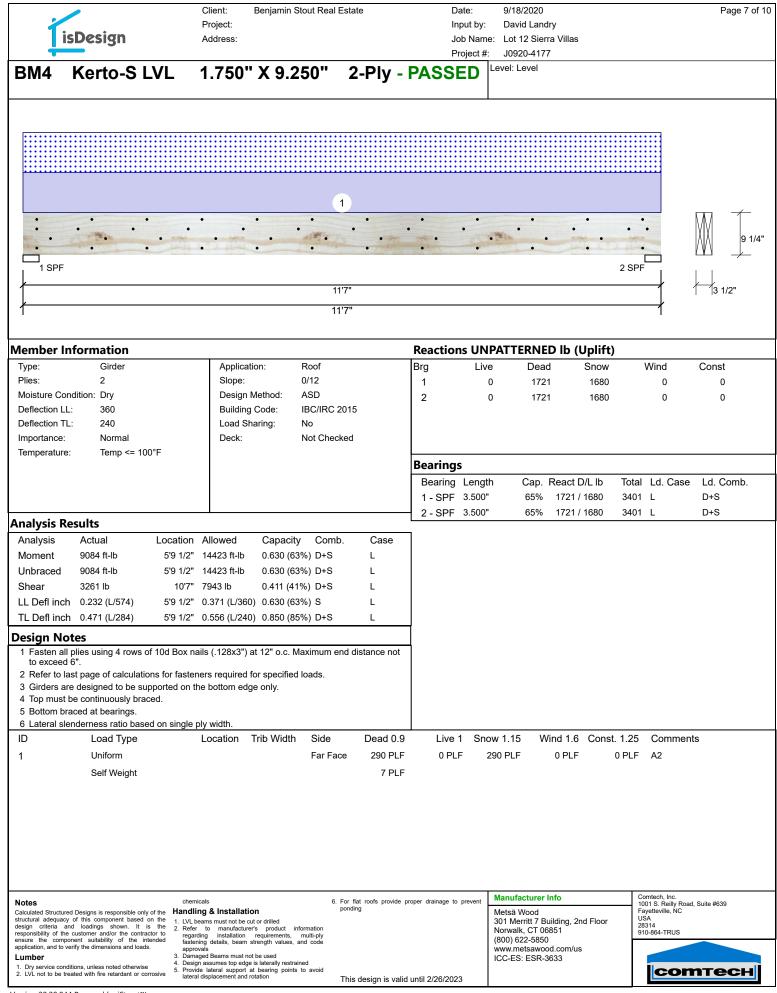
isDesign	Client: Project: Address:	Benjamin Stout Real Estate	Date: 9/18/2020 Input by: David Landry Job Name: Lot 12 Sierra Villas Project #: J0920-4177	Page 4 of 10
BM2 S-P-F #	2 2.000" X	12.000" 3-Ply - PAS	SED	
•••	• •	• • •		T.
• • I SPF End Grain	• •		2 SPF End Grain	
l Í		8'1"		4 1/2"
1		8'1"	1	
Fasten all plies using 2 6" ^{Capacity}	rows of 10d Box nails (0.0 %	128x3") at 12" o.c Nail from bot	h sides. Maximum end distance no	ot to exceed
Load	0.0 % 0.0 PLF			
Yield Limit per Foot	157.4 PLF			
Yield Limit per Fastener Yield Mode	78.7 lb. IV			
Edge Distance	1 1/2"			
Min. End Distance	3"			
Load Combination				
Duration Factor	1.00			

Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-664-TRUS
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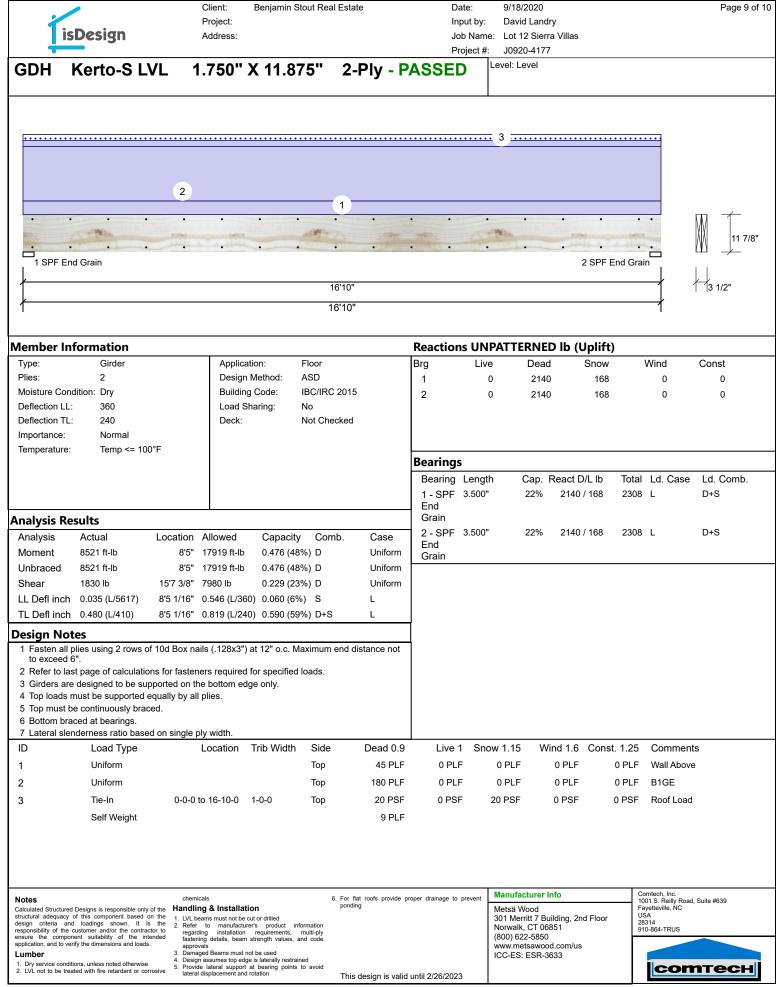
1	isDesign	Client: Project: Address:	Benjamin Stout	Real Estate		Project #:	9/18/2020 David Landry Lot 12 Sierra Villas J0920-4177	Page 6 of 1
BM3	S-P-F #2	2.000" 2	K 12.000"	2-Ply	- PASS	ED	evel: Level	
•	• •	•	• •	•	•	•	• • •	
				•	•	•	• • • —	
1 SF	PF End Grain						2 SPF End Grain	
				12'3 1/2"				<u> </u>
1				12'3 1/2"				1
Multi-Pl	y Analysis							
		ws of 10d Box nai	s (.128x3") at 1	2" o.c Maxi	mum end d	listance no [.]	t to exceed 6"	
Capacity		0.0 %						
oad		0.0 PLF						
/ield Limit p /ield Limit r	per Foot per Fastener	157.4 PLF 78.7 lb.						
rield Linnit p rield Mode		IV						
Edge Distar		1 1/2"						
Vin. End Di		3"						
_oad Comb	vination							
Duration Fa	actor	1.00						

Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
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		Client: Benjan Project:	nin Stout Real Esta)ate: nput by:	9/18/2020 David Landry	Page 8 of 10
isDesigr	ו	Address:		J	ob Name	Lot 12 Sierra Villas	
BM4 Kerto	-S I VI	1.750" X 9	250" 2	Ply - PASS	Project #:	J0920-4177 evel: Level	
	U LVL						
	•••••••••••••••••••••••••••••••••••••••	• •	•	• •	•	• •	· · · · · · · · · · · · · · · · · · ·
•••	•	• •	•	• •	•	• •	• • • • • • • • • • • • • • • • • • •
1 SPF							2 SPF
			11'7"				3 1/2"
1			11'7"				1
Multi-Ply Analysis	1 roug of 10d	Pour naile (120v2)") of 10" o o 1	Maximum and dist		t to overad C"	
Fasten all plies using Capacity	4 rows of 100 77.0 %	Box halls (.128x:	3) at 12 0.C 1	Maximum end dista	ance no	t to exceed 6	
Load Yield Limit per Foot	290.0 PL 376.5 PL						
Yield Limit per Fastener	94.1 lb.						
Yield Mode Edge Distance	IV 1 1/2"						
Min. End Distance	3"						
Load Combination	D+S						
Duration Factor	1.15						
Notes	cher	nicals	6. For fi	at roofs provide proper drainage to	prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is respon structural adequacy of this componen	nsible only of the Handl	ing & Installation beams must not be cut or drilled	pondir	ng ,		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings show responsibility of the customer and/or the ensure the component suitability of	wn. It is the 2. Refe he contractor to rega	r to manufacturer's produ rding installation requireme	ct information ents, multi-ply			Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions	and loads. appr 3. Dam	ning details, beam strength va ovals aged Beams must not be used	lues, and code			www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry service conditions, unless noted 2. LVL not to be treated with fire retard	otherwise 4. Desi 5. Prov	gn assumes top edge is laterally ide lateral support at bearing al displacement and rotation	points to avoid	design is velid well 0/00/000			соттесн
Varcian 20.20.044 Powarad by is		,	This	design is valid until 2/26/202	20		

CSD DESIGN



			Client:	Benjamin Stout Re	eal Estate	Dat	e:	9/18/2020		Page 10 of 1
2			Project:	20. jamin oldar N			ut by:	David Landry		
	isDesign		Address:			-	-	Lot 12 Sierra Villas		
-						Pro	ject #:	J0920-4177		
GDH	Kerto-S	I VI	1 750"	X 11.875"	2-Plv	- PASSED	L	.evel: Level		
•=					_ · · · ,					
									5	,
•	• •	•	• •	• •	• •	• •	•	• • •	<11/2	M 1
									$\overline{\mathbf{v}}$	11 7/8"
	• •	•	• •	• •	• •	• •	•			
1 SPF	End Grain							2 SPF End	Grain	
/					16'10"				/	3 1/2"
<u> </u>					16'10"					1 1
I					16 10				I	
Multi-Ply	y Analysis									
Fasten all	l nlies using 2	rows of '	10d Box nails	(.128x3") at 12'	oc Maxim	um end distan	ce no	t to exceed 6"		
Capacity	i piles using 2	0.0		(.120,3) ut 12						
Load		0.0								
Yield Limit p			7 PLF							
	er Fastener	81.9	lb.							
Yield Mode		IV								
Edge Distan Min. End Dis		1 1/2 3"	2"							
Load Combi		5								
Duration Fac		1.00								
N-4			chomicala		6 Ear flat roof-	wide proper dealers to	rovort	Manufacturer Info	Comtech, Inc.	
Notes Calculated Struc	ctured Designs is responsibl	e only of the 🖡	chemicals andling & Installa	tion	 For flat roofs pro ponding 	ovide proper drainage to pr	leveni	Metsä Wood	 1001 S. Reilly Roa Fayetteville, NC 	ad, Suite #639
structural adequ design criteria	uacy of this component ba and loadings shown.	ased on the 1 It is the 2	1. LVL beams must not be					301 Merritt 7 Building, 2nd Floor	USA 28314	
responsibility of ensure the co	f the customer and/or the o omponent suitability of the	contractor to ne intended	regarding installation	requirements, multi-ply n strength values, and code				Norwalk, CT 06851 (800) 622-5850	910-864-TRUS	
application, and Lumber	to verify the dimensions and	l loads.	approvals 3. Damaged Beams must	not be used				www.metsawood.com/us ICC-ES: ESR-3633		
1. Dry service of	conditions, unless noted othe	erwise 4	 Design assumes top ed Provide lateral support 	ge is laterally restrained t at bearing points to avoid				100-LO. LON-3033		птесн
2. LVL not to b	be treated with fire retardant	UI CUTTOSIVE	lateral displacement an	d rotation		valid until 2/26/2023				
VI	011 Doworod by Stru									

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