

	Client: Hunter's Dream He	omes D.	ate: 3/11/2024	Page 2 of 8
	Project:	In	put by: David Landry	
isDesign	Address:	Jo	b Name: The Hazel Plan	
DM4 Karta S			Coject #: JU324-1425	
Bivin Kerto-S	LVL 1.750 X 16.000	2-Ply - PASSEL)	
• • • •	• • • • • •			172"
••••		• • • • • •	• • • • •	· · · · · · · · · · · · · · · · · · ·
1 SPF 0-3-8			23	<u></u>
· · · · · · · · · · · · · · · · · · ·		2014"		
,		204		3 1/2
I		204		I
		· · · · · · · · · · · · · · · · · · ·		
-asten all plies using 3	92%	o.c Maximum end dista	nce not to exceed 6".	
.oad	26.0 PLF			
′ield Limit per Foot ′ield Limit per Fastener	282.4 PLF 94.1 lb			
	1			
/ield Mode	IV			
dge Distance	1 1/2" 3"			
oad Combination	D+S			
Duration Factor	1.15			
Notos	chemicale	6 For flat roofs provide proper drainage to	meyent Manufacturer Info	Comtech, Inc.
NOTES Calculated Structured Designs is responsib	le only of the Handling & Installation	ponding	Metsä Wood	1001 S Reilly Rd., NC
structural adequacy of this component b design criteria and loadings shown.	ased on the 1. LVL beams must not be cut or drilled It is the 2. Refer to manufacturer's product information		301 Merritt 7 Building, 2nd Floor Norwalk. CT 06851	28314 (910) 864-8787
ensure the component suitability of the application, and to verify the dimensions and	regarding installation requirements, multi-ply he intended fastening details, beam strength values, and code l loads.		(800) 622-5850	
Lumber	3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained		www.meisawoou.com/us	
 Dry service conditions, unless noted oth LVL not to be treated with fire retardant 	or corrosive 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 6/28/202	a	соттесн

		C	lient:	Hunter's Dre	am Homes			Date:	3/11/202	24				Page 3 of 8
	-	P	Project:					Input b	oy: David La	andry				
ĬS	Design	A	ddress:					Job Na	ame: The Haz	el Plan				
								Projec	t #: J0324-1	425				
BM2	Kerto-S L\	/L 1.:	750" X	16.00	0" 2-	Ply - P	ASS	ED	Level: Leve	I				
									•					
	2				3	3								
			1											<i>—</i>
		-		•	•								MA	
•							•						IXIX	41.41
	a ritter				al Mine The	a little a							MA	1.4
		· ····································	······································	•	• (40).465 • 3	1997 Mag. 199	No. of Contraction	•						<u> </u>
1 SPF 0-	3-8						2 SPF 0	-3-8					1.1	
∤			9'11"					ł					× 3	1/2"
													1 10	
			9'11'					- T						
Member In	formation						Reac	tions U	INPATTERN	NED Ib (Uplift)			
Туре:	Girder		Application	on:	Floor		Brg	Directio	n Live	e C	ead	Snow	Wind	Const
Plies:	2		Design N	lethod:	ASD		1	Vertical	1716	; ;	2233	1002	0	0
Moisture Con	dition: Dry		Building	Code:	IBC/IRC 2015		2	Vertical	1716	; ;	2233	1002	0	0
Deflection LL:	480		Load Sha	aring:	No Not Checked									
Importance:	Normal - II		Ceiling:		Gynsum 1/2"									
Temperature:	Temp <= 100	۱°F	Cennig.		Gypsulli 1/2									
porataroi	p						Bear	ings						
							Bea	ring Ler	ngth Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
							1-5	SPF 3.50	00" Vert	82%	2233 / 2038	4271	L	D+0.75(L+S
							2-5	SPF 3.50	00" Vert	82%	2233 / 2038	4271	L	D+0.75(L+S
Analysis Re	sults													
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case								
Moment	8946 ft-lb	4'11 1/2" 3	4565 ft-lb	0.259 (269	%) D+L	L								
Unbraced	9676 ft-lb	4'11 1/2" 1	2654 ft-lb	0.765 (769	%) D+0.75(L+	S) L								
Shear	3287 lb	1'7 1/2" 1	1947 lb	0.275 (28)	%) D+L	L								
LL Defl inch	0.041 (L/2792)	4'11 1/2" 0	.237 (L/480)	0.172 (17	%) 0.75(L+S)	L								
IL Defl inch	0.085 (L/1332)	4'11 1/2" 0	.316 (L/360)	0.270 (27	%) D+0.75(L+	S) L	-							
Design Not	tes						1							
1 Provide su may also b	pport to prevent late e required at the inte	ral movement erior bearings	and rotation	at the end na code	bearings. Late	ral support								
2 Fasten all	plies using 3 rows of	10d Box nails	s (.128x3") a	t 12" o.c. Ma	aximum end di	istance not								
to exceed 6	6". et page of coloulation	na far faatanar	o required fo	roposified	aada									
4 Girders are	e designed to be sup	ported on the	bottom edge	e only.	uaus.									
5 Top loads r	nust be supported e	qually by all p	lies.											
6 Top must b	e laterally braced at	end bearings.	width											
		a on single ply	ocation T	rib Width	Side	Dead 0.0		ivo 1 S	Spow 1 15	Wind 1 6	Const 1	25 Co	mments	
	Load Type	L	ocation i		Side		L 04						mments	
1	Uniform				Near Face	116 PLF	34		U PLF	0 PLF	. 01			
2	Uniform				Гор	120 PLF		0 PLF	0 PLF	0 PLF	. 01	PLF Wal	il.	
3	Uniform				Тор	202 PLF		0 PLF	202 PLF	0 PLF	0	PLF A1		
	Self Weight					12 PLF								
Notes		chemical	s		6. For fla	at roofs provide p	roper drain	age to prever	Manufactur	er Info		Comte	ch, Inc.	
Calculated Structured structural adequacy	I Designs is responsible only of this component based of	of the Handling	& Installation	1 or drilled	pondin	ig			Metsä Wood	d 7 Building - C	and Floor	1001 S	3 Reilly Rd.,	NC
design criteria and responsibility of the	loadings shown. It is customer and/or the contract	the 2. Refer t tor to regarding	 mast not be cut manufacturer' installation 	s product info equirements	mation multi-ply				Norwalk, CT	06851		(910) 8	364-8787	
ensure the component suitability of the intended application, and to verify the dimensions and loads.														
Lumber 3. Damaged Beams must not be used 1. Dry service conditions, unless noted otherwise 4. Design assumes top edge is laterally restrained														
2. LVL not to be treat	2. LVL not to be treated with fire retardant or corrosive 5. Provide lateral support at bearing points to avoid lateral displacement and rotation This design is valid until 6/28/2026							есн						
												_		

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isDesign	Client: Hunter's Dream Ho Project: Address:	omes Date Inpu Job Proje	: 3/11/2024 t by: David Landry Name: The Hazel Plan ect #: J0324-1425	Page 4 of 8
BM2 Kerto-S	LVL 1.750" X 16.000"	2-Ply - PASSED	Level: Level	
· · · ·	· · · · ·	• • • •		\mathbb{M}^{-1}
			$\overline{\mathbf{v}}$	1'4"
•••	• • • •	• • • • •	\rightarrow	
1 SPF 0-3-8		2 SPF 0-3-8		
	9'11"			3 1/2"
1	9'11"		ſ	
Factor all plics using 2	rows of 10d Roy pails (128,2%) at 12	o.c. Maximum and distance	in not to overand 6"	
Capacity	94.1 %		e not to exceed 6.	
Load	231.0 PLF			
Yield Limit per Foot Yield Limit per Fastener	245.6 PLF 81.9 lb.			
См	1			
Yield Mode Edge Distance	IV 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 pre	vent Manufacturer Info	Comtech, Inc.
Calculated Structured Designs is responsible structural adequacy of this component be	e only of the Handling & Installation	ponding	Metsä Wood	1001 S Reilly Rd., NC
design criteria and loadings shown. responsibility of the customer and/or the c	It is the 2. Refer to manufacturer's product information ontractor to regarding installation requirements multiply		Norwalk, CT 06851	(910) 864-8787
ensure the component suitability of th application, and to verify the dimensions and	loads.		(800) 622-5850 www.metsawood.com/us	
Lumber 1. Dry service conditions, unless noted other	3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Browide lateral current of bearing points to switch			
2. LVL not to be treated with fire retardant	or corrosive ateral displacement and rotation	This design is valid until 6/28/2026		COMTECH



	Client:	Hunter's Dream H	omes	Date:	3/11/2024	Page 6 of 8
	Project:			Input by:	David Landry	
IsDesign	Address:			Job Name:	The Hazel Plan	
				Project #:	J0324-1425	
BM3 S-P-F #2	2.000" X	10.000"	2-Ply - PASSE	ED	evel: Level	
•	•	•	• •		• •	•
						$\nabla \Lambda = 9^{1/4"}$
	•	•	• •		• •	
1 SPF 0-3-8					2 SPF 0-3-	-8
			8'			<u> </u>
			0			
1			8'			1
Multi-Ply Analysis						
Fasten all nlies using 2 roy	ws of 10d Box nails	(128v3") at 12"	o c Maximum end dis	tance no	t to exceed 6"	
Capacity		(.120,5) at 12				
Load	0.0 PLF					
Yield Limit per Foot	157.4 PLF					
Yield Limit per Fastener	78.7 lb. 1					
Yield Mode	IV					
Edge Distance	1 1/2"					
Min. End Distance	3"					
Load Complication	1 00					
				Г	Manufacturer Info	Comtach Inc
				H		1001 S Reilly Rd., NC
						28314
						(910) 804-8787
						соттесн
			i his design is valid until 6/28/	2026		



Ţ	isDesi	ign		C F A	Client: Project: Address:	Hunte	er's Dream	Homes			Date Inpu Job Proj	e: t by: Name: ect #:	3/11/2024 David Land The Hazel J0324-142	iry Plan 5					Page 8 of
GDH	S-P	-F #	2	2.00)0")	X 12.	000"	2-	Ply	- PAS	SED	L	evel: Level						
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	••	1 1/2"	M	1
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• •	L¥.	W	11 1/4"
1 SPF I	End Grain	0-3-8												2 SPF	End Gr	ain 0-3-8			
<u>/</u>								16'10'									1	<i>∤</i> / _{3"}	
/								16'10									ł		
/ulti-Plv	Analysi	ic																	

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

0.0 %
0.0 PLF
157.4 PLF
78.7 lb.
1
IV
1 1/2"
3"
1.00

Manufacturer Info	Comtech. Inc.
	1001 S Reilly Rd., NC 28314 (910) 864-8787

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