

Multi-Ply Analysis

Fasten all plies using 5 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6"

run nonn bour sides. n	
Capacity	86.1 %
Load	405.3 PLF
Yield Limit per Foot	470.6 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Concentrated Load

Fasten at concentrated side load at 0-5-0 with a

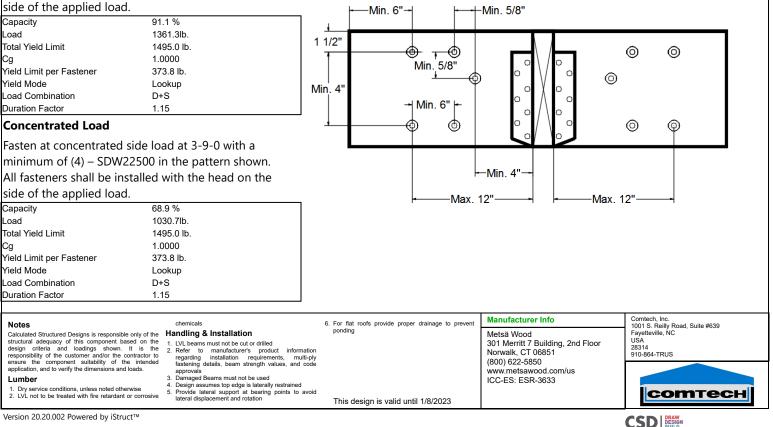
minimum of (4) – SDW22500 in the pattern shown.

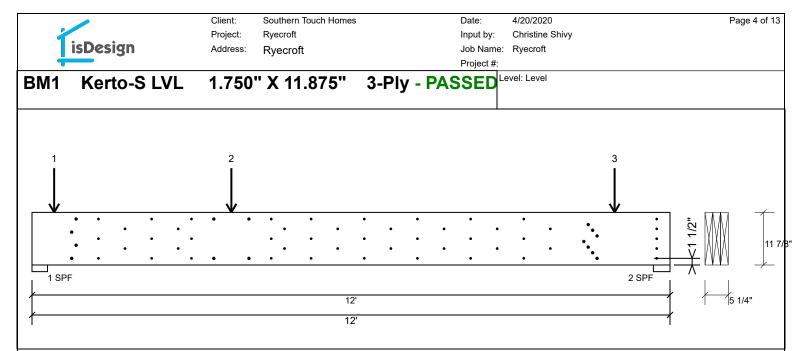
All fasteners shall be installed with the head on the

side of the applied load.

The second secon	
Capacity Load	91.1 %
Load	1361.3lb.
Total Yield Limit	1495.0 lb.
Cg	1.0000
Yield Limit per Fastener	373.8 lb.
Yield Mode	Lookup
Load Combination	D+S
Duration Factor	1.15

Min/Max fastener distances for Concentrated Side Loads





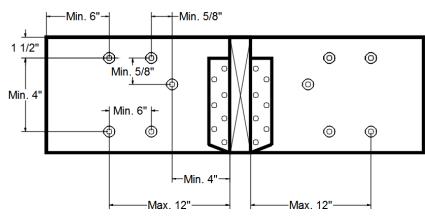
Multi-Ply Analysis

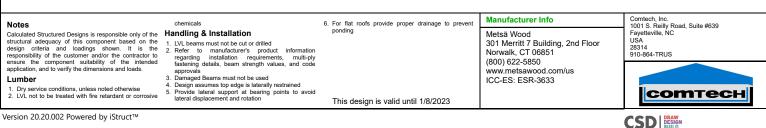
Concentrated Load

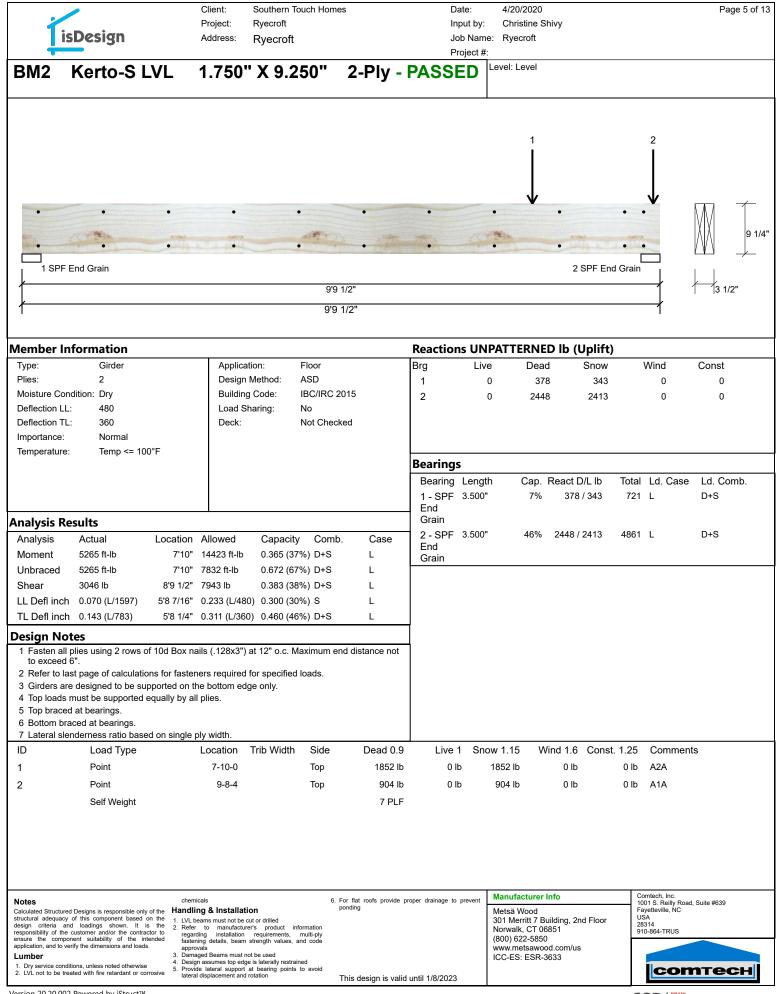
Fasten at concentrated side load at 10-11-8 with a minimum of (7) – SDW22500 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	91.9 %
Load	2405.3lb.
Total Yield Limit	2616.3 lb.
Cg	1.0000
Yield Limit per Fastener	373.8 lb.
Yield Mode	Lookup
Load Combination	D+S
Duration Factor	1.15

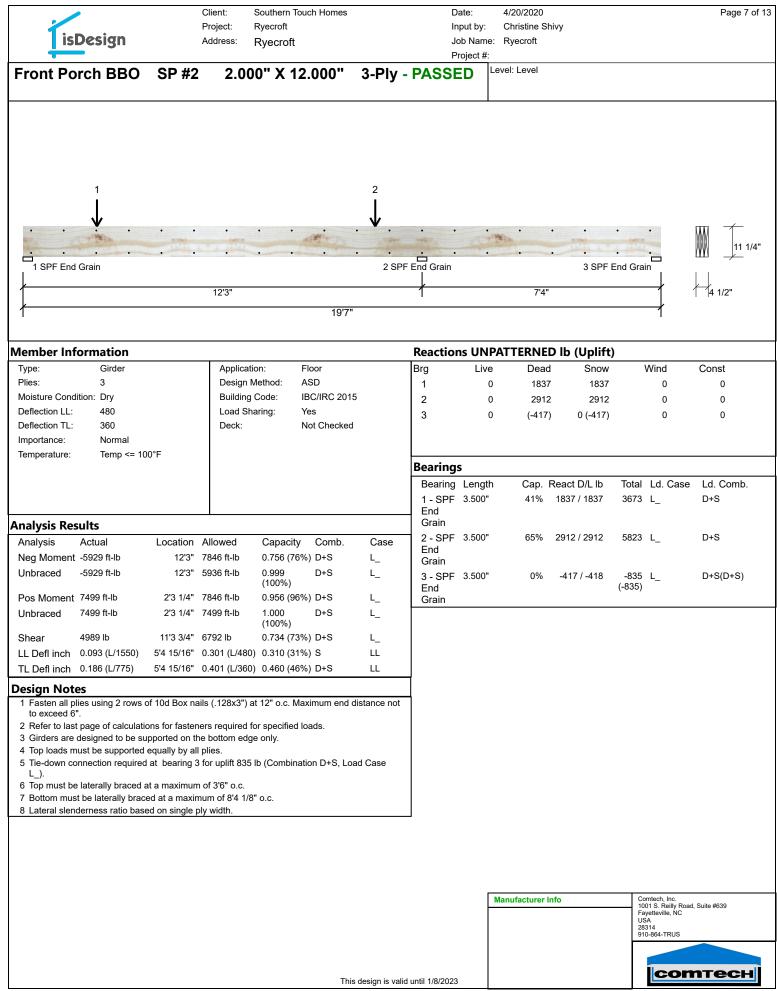
Min/Max fastener distances for Concentrated Side Loads

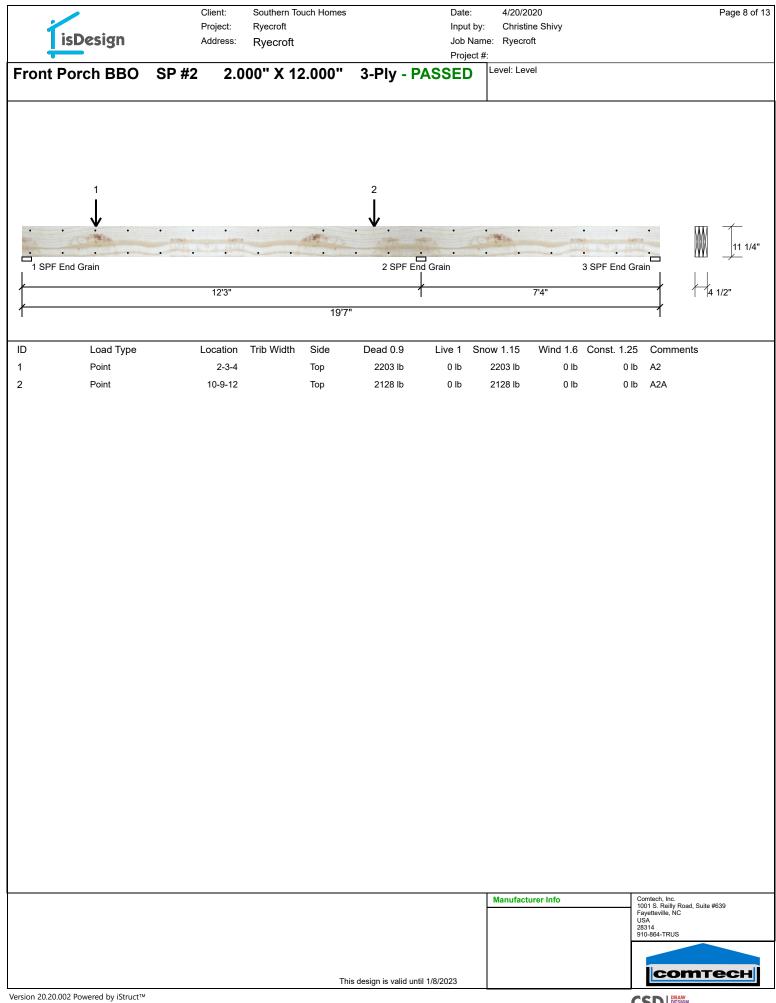






	Client: Southern Touch H		4/20/2020	Page 6 of 13
isDesign	Project: Ryecroft Address: Rvecroft	Input by:	Christine Shivy e: Ryecroft	
	Address: Ryecroft	Project #	•	
BM2 Kerto-S LVL	1.750" X 9.250'	2-Ply - PASSED	Level: Level	
	• •	• •	• • •	
	• •	• •	• • •	• 9 1/4"
1 SPF End Grain			2 SPF End Gr	
		9'9 1/2"	2011 2110	3 1/2"
				3 1/2
		9'9 1/2"		I
Multi-Ply Analysis		La a Martin and distances		
Fasten all plies using 2 rows of 10d Capacity 0.0 %	Box halls (.128x3") at 12	o.c Maximum end distance n	ot to exceed 6	
Load 0.0 PLF				
Yield Limit per Foot 163.7 PL Yield Limit per Fastener 81.9 lb.	_F			
Yield Mode IV				
Edge Distance 1 1/2" Min. End Distance 3"				
Load Combination				
Duration Factor 1.00				
			Manufacturen lut	Comtach Inc
	micals ling & Installation	6. For flat roofs provide proper drainage to prevent ponding	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1. LVL design criteria and loadings shown. It is the 2. Refe	beams must not be cut or drilled er to manufacturer's product information		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
responsibility of the customer and/or the contractor to ensure the component suitability of the intended fastu	arding installation requirements, multi-ply ening details, beam strength values, and code rovals		(800) 622-5850 www.metsawood.com/us	510-004-TRU5
Lumber 3. Dan 1. Drugendies conditions unloss noted athenuise 4. Des	naged Beams must not be used ign assumes top edge is laterally restrained		ICC-ES: ESR-3633	
	vide lateral support at bearing points to avoid ral displacement and rotation	This design is valid until 1/8/2023		соттесн
Maria 20.20.002 Paradala ich atti				_



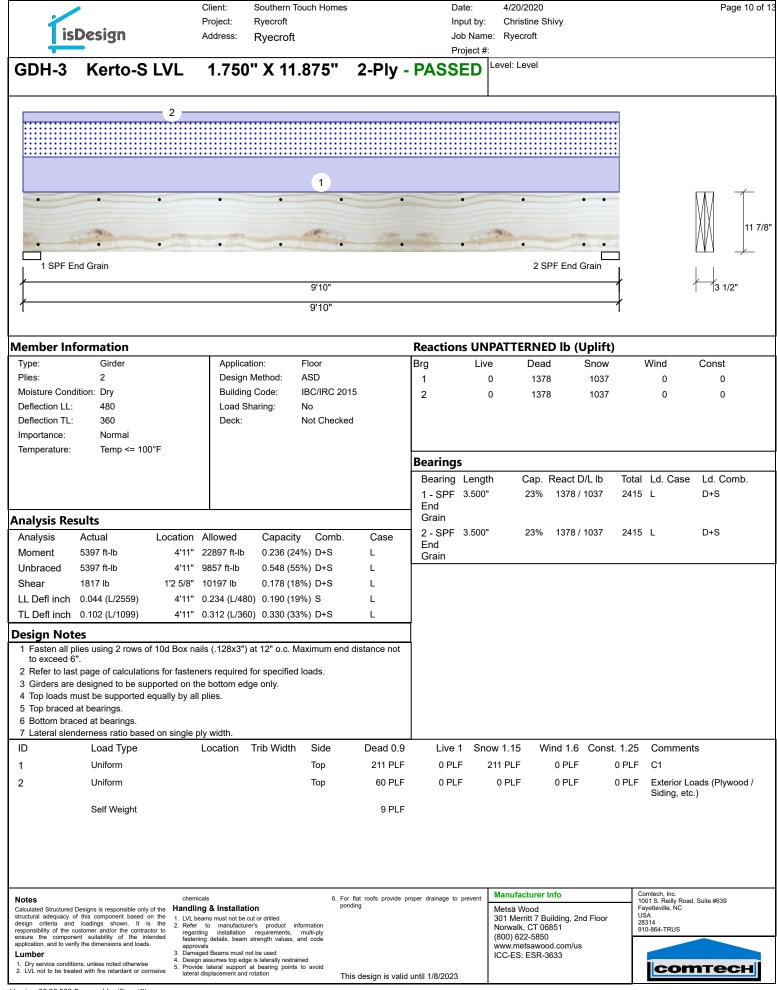


	Cli	ent: Southern Touch H	omes	Date:	4/20/2020	Page 9 of 13
		oject: Ryecroft		Input by:	Christine Shivy	0
isDesign	Ad	ldress: Ryecroft			e: Ryecroft	
				Project #:		
Front Porch BBO	SP #2	2.000" X 12.00	0" 3-Ply	- PASSED	Level: Level	
						7
	•••		••••			
1 SPF End Grain			2 SF	PF End Grain	3 SPF Er	
		12'3"		ĺ	7'4"	4 1/2"
1			19'7"			1
Multi-Ply Analysis						
Fasten all plies using 2 rov	vs of 10d Boy	x nails (128x3") at 12'	oc Nail from	hoth sides. Max	imum end distance not t	o exceed
6"						
Capacity	0.0 %					
Load	0.0 PLF					
Yield Limit per Foot	202.6 PLF					
Yield Limit per Fastener	101.3 lb.					
Yield Mode	IV					
Edge Distance	1 1/2"					
Min. End Distance	3"					
Load Combination	4.00					
Duration Factor	1.00					
l						
1						
1						

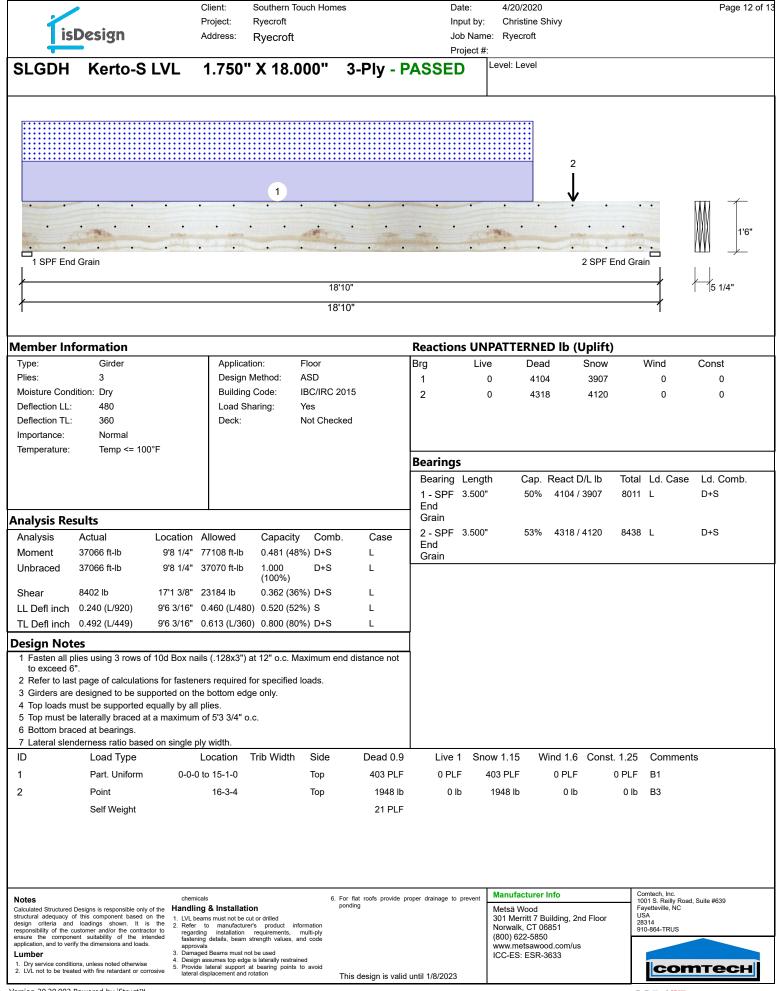
Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS

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	Client:	Southern Touch Hor	nes	Date:	4/20/2020	Page 11 of 1
	Project	: Ryecroft		Input by:	Christine Shivy	
isDesign	Addres	^{s:} Ryecroft		Job Name	e: Ryecroft	
				Project #:		
GDH-3 Kerto-S L	VL 1.7	50" X 11.875	" 2-Plv	- PASSED	Level: Level	
			_ · · j			
	• •	•	• •	•	• • •	
	• •	•	• •	•	• • • +	
1 SPF End Grain					2 SPF End Grain	Λ
/ <u>/</u>		9'10"			/	3 1/2"
						3 1/2
1		9'10"			1	
Multi-Ply Analysis						
Fasten all plies using 2 rows		ails (.128x3") at 12" (o.c Maximum	n end distance no	ot to exceed 6"	
	0.0 % 0.0 PLF					
	163.7 PLF					
Yield Limit per Fastener	81.9 lb.					
	IV					
0	1 1/2" 3"					
Load Combination	3					
	1.00					
Notes	chemicals		 For flat roofs provide ponding 	proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of t structural adequacy of this component based on t	he 1. LVL beams must r	not be cut or drilled	pononig		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor ensures the component suitability of the intended	to regarding instal	ufacturer's product information llation requirements, multi-ply			Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
ensure the component suitability of the intend application, and to verify the dimensions and loads.	ed fastening details, approvals	beam strength values, and code			www.metsawood.com/us	
Lumber 1. Dry service conditions, unless noted otherwise	5 Provide lateral er	must not be used op edge is laterally restrained upport at bearing points to avoid			ICC-ES: ESR-3633	
2. LVL not to be treated with fire retardant or corrosi	ive lateral displaceme	int and rotation	This design is vali	d until 1/8/2023		соттесн



isDesign	Client: Project: Address:	Southern Touch Ho Ryecroft Ryecroft	omes	Date: Input b Job Na Projec	ame: Ryecroft	Page 13 of
SLGDH Kerto-S LVL	1.750'	' X 18.000"	3-Ply		Level: Level	
· · · · · ·	•••	· · ·	• •	· · ·	· · · · ·	· · · · · · · · · · · · · · · · · · ·
1 SPF End Grain	• •	• •	• •	• • •	••••••••••••••••••••••••••••••••••••••	
<u> </u>			18'10" 18'10"			1 1/4"
Multi-Ply Analysis		(120.20) (120				
Fasten all plies using 3 rows of 1 6" Capacity 0.0 %		(.128x3") at 12"	o.c Nail fro	m both sides. M	aximum end distance not	to exceed
oad 0.0 P /ield Limit per Foot 245.6 /ield Limit per Fastener 81.9	LF PLF					
field Mode IV Edge Distance 1 1/2' Min. End Distance 3''						
Load Combination Duration Factor 1.00						
structural adequacy of this component based on the 1. design criteria and loadings shown. It is the 2.	chemicals andling & Installati LVL beams must not be o Refer to manufactur		6. For flat roofs prov ponding	ide proper drainage to prever	nt Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314
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 3. 4.	regarding installation fastening details, beam approvals Damaged Beams must n Design assumes top edg	requirements, multi-ply strength values, and code ot be used e is laterally restrained at bearing points to avoid	This design is a	valid until 1/8/2023	(800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	910-864-TRUS