is	Design	F	Client: PROBU Project: Address:	JILT		Job	ut by:	1/26/202 LENNY I GARRE	NORRIS				Page 1 o
GDH 18'	FL Kert	to-S LVL	1.750" X	11.875"	3-Ply -		-	evel: Level.					
		2											
				1									
	- Pala			att the part	1	-	ar	1 and 1	-		-	WW	11 7/
1 SPF End	l Grain 0-3-8								2 SI	PF End Grain	0-3-8		_ <u>/</u>
/				19'									5 1/4"
1				19'									
						Destin				<u>///./////////////////////////////////</u>			
<b>lember Inf</b> Type:	Girder		Application:	Floor		Reaction		Live		-	Snow	Wind	Co
Plies:	3		Design Method:	ASD		1 Vertio	cal	0		2602	0	0	
Moisture Cond	-		Building Code:	IRC 2018		2 Vertio	cal	0		2602	0	0	
Deflection LL:	480 360		Load Sharing: Deck:	Yes									
Deflection TL:	Normal - II		Deck:	Not Checked	1								
mportance: Femperature:	Temp <= 1												
remperature.	iemp <= i	00 F				Bearings							
						Bearing	l onath	Dir.	Can R	eact D/L lb	Total	Ld. Case	Ld. Con
						1 - SPF	-	Vert	Сар. к 17%	2602 / 0		Uniform	D
						End	0.000	veit	1//0	2002/0	2002	omonii	
nalysis Re	sults					Grain							
Analysis	Actual	Location A	Allowed Capa	acity Comb.	Case	2 - SPF	3.500"	Vert	17%	2602 / 0	2602	Uniform	D
Moment	11769 ft-lb	9'6" 2	7954 ft-lb 0.42	l (42%) D	Uniform	End Grain							
Unbraced	11769 ft-lb	9'6" 1	1788 ft-lb 0.998		Uniform	Oram							
			(100	,									
Shear	2264 lb	1'3 3/8" 1		9 (19%) D	Uniform								
LL Defl inch	0.000 (L/999)		99.000 (L/0) 0.000										
TL Defl inch	0.519 (L/429)	9'6 1/16" 0	.618 (L/360) 0.839	9 (84%) D	Uniform	4							
esign Not													
			and rotation at the by the building cod		teral support								
	•	•	s (.128x3") at 12" o		distance not								
	". Nail from both												
			s required for spec bottom edge only.	ified loads.									
	nust be supported												
	e laterally braced												
	st be laterally bra		-										
8 Lateral sien	iderness ratio bas Load Type		ocation Trib Wi	dth Side	Dead 0.9	Live 1	Snot	w 1.15	Wind 1	6 Const. 1.	25 00	mments	
1	Uniform	L		Top	200 PLF	0 PLF		0 PLF	0 PLI			BLE END	
2	Uniform				60 PLF	0 PLF		0 PLF	0 PLI				
2				Тор		UPLF		UPLF	UPLI	- 08		AD WALL	
	Self Weight				14 PLF								
Notos		است.	c	e F	flat mote previde	moner drainage to	revent	Manufactur	er Info				
Notes Calculated Structured	Designs is responsible or		s & Installation	6. For pond		proper drainage to p	Jeveni	Metsä Wood					
structural adequacy o design criteria and	of this component based loadings shown. It	is the 2. Refer	ns must not be cut or drilled to manufacturer's produc	t information				301 Merritt 7 Norwalk, CT	Building, 2	2nd Floor			
responsibility of the c ensure the compone	ustomer and/or the cont ent suitability of the	intended fastening	g installation requireme details, beam strength va	nts, multi-ply				(800) 622-58	350				
Lumber	ify the dimensions and loa	3. Damage	d Beams must not be used	restrained				www.metsav	vood.com/i	JS			
<ol> <li>Dry service condition</li> <li>LVL not to be treat</li> </ol>	ons, unless noted otherwi ted with fire retardant or	se 5. Provide	ssumes top edge is laterally lateral support at bearing splacement and rotation	points to avoid	- 4	L							
		atoral di		í hi	s design is valio	l until 5/29/2026							

	Cli	ent: PROBUIL	Г		Date:	1/26/2025	Page 2 of 2
		oject:			Input by:	LENNY NORRIS	
isDesig	<b>Sh</b> Ad	dress:			Job Name:	GARRETT	
· · · · ·					Project #:		
GDH 18' FL	Kerto-S LVL	1.750" X 1	1.875" 3-	Ply - PASS	ED L	evel: Level	
				-			
				<u> </u>		· · · · · ·	··· ] 🕴 📖 🕇
					·		
	• • •	• •		• •	•		
1 SPF End Grain 0-	3-8					2 SPF End Grain	
<u> </u>			1.01				
			19'				1/4"
1			19'				1
Multi-Ply Analysis							
Fasten all plies usin	a 2 rows of 10d Bo	x nails (.128x3")	at 12" o.c Nail	from both sid	les. Maxir	num end distance not to	exceed
6".	5	( , , , , , , , , , , , , , , , , , , ,					
Capacity	0.0 %						
Load	0.0 PLF						
Yield Limit per Foot	163.7 PLF						
Yield Limit per Fastener	81.9 lb.						
См	1						
Yield Mode	IV						
Edge Distance	1 1/2"						
Min. End Distance	3"						
Load Combination							
	1.00						
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. <b>Lumber</b> 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     Design assume top edge is laterally restrained		Metså Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	