is	Design	F	Client: WI Project: Address:	ELLONS		Date Input Job N Proje	by: LENN Name: HUN	IY NORRIS				Page 1 of
GDH 16'	Kerto-S	LVL	1.750"	X 11.875"	2-Ply -			evel				
		2										
• •	• •	•	• •	•	1	• •	• •	•	•	• •	Μ	
-	- The second			-187-	12- 1T		Contraction .		The star		WW	11 7/8"
1 SPF End	l Grain								2 SPF End	Grain		
<u> </u>					17'					\longrightarrow		1/2"
ł					17'							
lember Inf	ormation					Reactions	UNPATTE	RNED lb	(Uplift)			
Туре:	Girder		Application			Brg Directi				Snow	Wind	Co
Plies: Moisture Cond	2 lition: Drv		Design Met Building Co		2015	1 Vertica 2 Vertica		0 0	2289 2289	0 0	0	
Deflection LL:	480		Load Shari		2010	Z venica	1	0	2209	0	0	
Deflection TL:	360		Deck:	Not Che	ecked							
mportance:	Normal - II											
Temperature:	Temp <= 100°	Ϋ́F				Beeringe						
						Bearings	" D'					
						Bearing Le	-	•	React D/L lb		Ld. Case	Ld. Con
						1 - SPF 3. End	500" Vert	22%	2289 / 0	2289	Uniform	D
nalysis Res	sults					Grain						
Analysis	Actual	Location A	Allowed (Capacity Con	nb. Case	2 - SPF 3.	500" Vert	22%	2289 / 0	2289	Uniform	D
Moment	9209 ft-lb	8'6" 1	7919 ft-lb ().514 (51%) D	Uniform	End Grain						
Unbraced	9209 ft-lb	8'6" 9).999 D	Uniform							
01	1052 15	410.0/0# 7		100%)	l luife me							
Shear	1953 lb	1'3 3/8" 7).245 (24%) D	Uniform							
LL Defl inch TL Defl inch	0.000 (L/999)		99.000 (L/0) (.551 (L/360) (Uniform							
	. ,	801/10 0	.551 (L/360) (0.888 (89%) D	Uniform	-						
esign Not						4						
	port to prevent later required at the inte				s. Lateral support							
	lies using 2 rows of	10d Box nails	s (.128x3") at 1	2" o.c. Maximum	end distance not							
to exceed 6 3 Refer to last	t page of calculation	s for fastene	s required for	specified loads.								
	designed to be supp		•	•								
-	iust be supported ed			0								
	e laterally braced at a t be laterally braced			.c.								
	derness ratio based		-									
ID	Load Type	L	ocation Tril	Width Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.	6 Const. 1.	25 Co	mments	
1	Uniform			Тор	200 PLF	0 PLF	0 PLF	0 PL	F 0 P	LF GA	BLE END	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PL	F 0 P	LF DE	AD WALL	
	Self Weight				9 PLF							
					C For flat fr ''		Manufac	turer Info		Comtech		
Notes Calculated Structured I	Designs is responsible only of		& Installation		For flat roofs provide p ponding	noper grainage to prev	Metsä W	ood		Reilly Ro USA	ad Industrial Parl	k P.O. Box 404
Calculated Structured Designs is responsible only of the Training on Instantation structural adequacy of this component based on the <u>1. LVL beams must not be cut or drilled</u> design criteria and loadings shown. It is the <u>2. Refer to manufacturers</u> product information							301 Merritt 7 Building, 2nd Floor 910-864-8787 Norwalk, CT 06851			8787		
	ustomer and/or the contracto	r to recarding	. In stallation	viromonto multiplu			inorwalk,			1		
esponsibility of the consure the component	ent suitability of the inter fv the dimensions and loads	ided fastening		gth values, and code			(800) 62					
esponsibility of the consure the compone pplication, and to verif .umber	ent suitability of the inter fy the dimensions and loads.	ided fastening approval 3. Damage	details, beam stren	gth values, and code				2-5850 tsawood.com	us			

		<u></u>						
			WELLONS		Date:	4/18/2023		Page 2 of 2
		Project:			Input by:			
isDesign	1	Address:			Job Nam	ne: HUNTTINGTON		
					Project #	# :		
GDH 16' Ker		4 750	V 44 075	2 0 0 1		Level: Level		
GDH 16 Ker	to-S LVL	1.750	× 11.0/5	2-Piy	PASSED			
							-	
• • •	• •	•	• •	• •	• • •	• •	<u>≥</u>	Π \uparrow
								YM
		•					· · · · · · · · · · · · · · · · · · ·	11 7/8"
1 SPF End Grain							2 SPF End Grain	
/ <i>/</i>				17'			/	3 1/2"
								3 1/2
1				17'			1	
Multi-Ply Analysis								
	2 (10)	р :I /	100 200 - 100					
Fasten all plies using		Box halls (.	128x3") at 12"	o.c Maximul	m end distance r	not to exceed 6".		
Capacity	0.0 %							
Load	0.0 PLF	_						
Yield Limit per Foot	163.7 PLF	-						
Yield Limit per Fastener	81.9 lb.							
Yield Mode	IV							
Edge Distance	1 1/2"							
Min. End Distance	3"							
Load Combination	1.00							
Duration Factor	1.00							
Notes Calculated Structured Designs is respon structural adequacy of this componen design criteria and loadings shov responsibility of the customer and/or the ensure the component suitability of application, and to verify the dimensions Lumber	t based on the vn. It is the e contractor to f the intended and loads. 4 Decia	ng & Installatio eams must not be cut to manufacturer ding installation ning details, beam st vals uged Beams must not	t or drilled 's product information requirements, multi-ply trength values, and code	6. For flat roofs provid ponding	e proper drainage to prevent	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2r Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	USA 28309 910-864-8787	strial Park P.O. Box 40408,
 Dry service conditions, unless noted LVL not to be treated with fire retard 	otherwise 5. Provid	n assumes top edge de lateral support at l displacement and ro	bearing points to avoid	This 1 1 1			CO	птесн
	latera	aapiacement and fo		I his design is va	alid until 11/3/2024			

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CSD DESIGN BUILD