is	Design	F	Client: J Project: Address:	AMES MATTHEWS		Job	ut by:	9/18/202 LENNY : BB-144	NORRIS				Page 1 c
GDH 18'	FL Kert	o-S LVL	1.750	" X 14.000"	2-Ply -	PASSE)	evel: Leve	I				
		2											
					1							т	- /- -
	inter	-	-	Altra	· it	-	5.7	The second				W	1'2"
1 SPF End	Grain 0-3-8								2 5	SPF End Grain	0-3-8	ш	<u> </u>
<u> </u>				1	9'							-3	1/2"
					9'							1 10	172
I				,	5						I		
/lember Inf	ormation					Reactions				(Uplift)			
Type:	Girder		Applicatio	n: Floor		Brg Direc		Live		-	Snow	Wind	Co
Plies:	2		Design M	ethod: ASD		1 Vertic	al	C)	2573	0	0	
Moisture Cond			Building C			2 Vertic	al	C)	2573	0	0	
Deflection LL:	480		Load Sha	•									
Deflection TL:	360		Deck:	Not Check	ked								
Importance:	Normal - II	00°E											
Temperature:	Temp <= 1	00°F				Bearings							
						Bearing I	ongth	Dir.	Can	React D/L lb	Total	Ld. Case	Ld. Cor
						1 - SPF	•	Vert	Сар. 25%	2573 / 0		Uniform	D
						End	5.500	vert	25%	257370	2573	Uniform	D
nalysis Res	sults					Grain							
Analysis	Actual	Location A	Allowed	Capacity Comb	. Case	2 - SPF 3	3.500"	Vert	25%	2573 / 0	2573	Uniform	D
Moment	11641 ft-lb	9'6" 2	24299 ft-lb	0.479 (48%) D	Uniform	End Grain							
Unbraced	11641 ft-lb	9'6 " 1	1659 ft-lb	0.999 D	Uniform	Grain							
				(100%)									
Shear	2191 lb	17'6 1/2" 9		0.233 (23%) D	Uniform								
	0.000 (L/999)		999.000 (L/0)										
TL Defl inch	0.477 (L/466)	9'6 1/16" ().618 (L/360)	0.772 (77%) D	Uniform	4							
esign Not	es												
				at the end bearings.	Lateral support								
-	e required at the i lies using 3 rows	-	-	12" o.c. Maximum er	nd distance not								
to exceed 6	".												
	t page of calculat designed to be s		•	•									
	ust be supported		-	only.									
-	e laterally braced			.C.									
	t be laterally brac		-										
8 Lateral sien	derness ratio bas Load Type			ib Width Side	Dead 0.9	Live 1	Snot	w 1 15	Wind 1	.6 Const. 1.2	25 00	mments	
	Uniform	L		Top	200 PLF	0 PLF	510	0 PLF	0 P			BLE END	
1													
2	Uniform			Тор	60 PLF	0 PLF		0 PLF	0 P	_F 0P	LF DE	AD WALL	
	Self Weight				11 PLF								
								Manufactu	or Info				
Notes Calculated Structured	Designs is responsible or	chemica			For flat roofs provide p conding	proper drainage to p	eveni	Manufactur Metsä Woo			-		
structural adequacy o design criteria and	f this component based loadings shown. It	on the 1. LVL bea	ms must not be cut o	r drilled product information				301 Merritt	7 Building	, 2nd Floor			
responsibility of the component of the c	ustomer and/or the contr ent suitability of the	ractor to regardin intended fastening	q installation re	product information quirements, multi-ply ngth values, and code				Norwalk, C (800) 622-5			ļ		
application, and to veri Lumber	fy the dimensions and loa	ds. approva 3. Damage	s d Beams must not b	e used				www.metsa		i/us			
1. Dry service condition	ons, unless noted otherwis ed with fire retardant or o	se 4. Design a 5. Provide	assumes top edge is lateral support at	laterally restrained bearing points to avoid									
		lateral di	splacement and rota		This design is valio	1 until 5/29/2026							

		ient: JAMES MATTHEWS	Date:	9/18/2023	Page 2 of
isDesi	gn Ad	oject: Idress:	Input by Job Nar	: LENNY NORRIS ne: BB-14416R	
	-		Project	#: Level: Level	
GDH 18' FL	Kerto-S LVL	1.750" X 14.000"	2-Ply - PASSED	Level. Level	
· · ·	• • •	• • • •	• • • •	• • • •	···] [3]
	• • •		• • •		·
1 SPF End Grain 0	-3-8	• • • •		· · · · · · · · · · · · · · · · · · ·	
/		19'			
,		19'			
		10			
Iulti-Ply Analysis	5				
		x nails (.128x3") at 12" o.c	Maximum end distance	not to exceed 6".	
apacity ad	0.0 % 0.0 PLF				
eld Limit per Foot	245.6 PLF				
ld Limit per Fastener	81.9 lb. 1				
ld Mode	IV				
ge Distance	1 1/2"				
n. End Distance ad Combination	3"				
ration Factor	1.00				
otes	chemicals		flat roofs provide proper drainage to prevent	Manufacturer Info	
ructural adequacy of this comp		must not be cut or drilled	ang	Metsä Wood 301 Merritt 7 Building, 2nd Floor	
esign criteria and loadings esponsibility of the customer and nsure the component suitabili oplication, and to verify the dimen-	shown It is the o pater to	manufacturer's product information installation requirements, multi-ply details, beam strength values, and code		Norwalk, CT 06851 (800) 622-5850	
component autabili	tastening	actano, pearri strength values, and code			1
application, and to verify the dimen- _umber	Damaged	Beams must not be used sumes top edge is laterally restrained		www.metsawood.com/us	

This design is valid until 5/29/2026

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