is	Design	Project: Ja Address: L	Matthews Builder/Devel asmine ot 2 NC-Hwy 27 illington, NC 27546	loper	lr Je	ate: nput by: ob Name: roject #:	5/15/2025 Jonathan Lot 2 NC- J0125-00	Landry Hwy 27				Page 1 o	of 2
GDH I	Kerto-S LVL	1.750" X	11.875" 2·	-Ply - P	ASSE	D	evel: Level						
• •	1 Grain 0-3-8	• •	1		•		•	2 SPF E	•	0-3-8		11 7/8	8"
/			16'10'							\rightarrow	5	1/2	
/lember Inf		A				ns UNP		ED Ib (Up		0	14/5	0.	
Type: Plies: Moisture Cond Deflection LL: Deflection TL: Importance:	480 360 Normal - II	Application Design Me Building C Load Shar Deck: Ceiling:	ethod: ASD ode: IBC/IRC 2015		1 Ver	ection tical tical	Live 0 0	Dea 171 171	9	Snow 0 0	Wind 0 0	Cc	on
Temperature:	Temp <= 100°F				Bearing	c							_
					Bearing 1 - SPF End	Length	Dir. Vert	Cap. Read 17%	et D/L lb 1719 / 0	Total 1719	Ld. Case Uniform	Ld. Cor D	m
Analysis Res Analysis		cation Allowed	Capacity Comb.	Case	Grain 2 - SPF	3.500"	Vert	17%	1719/0	1719	Uniform	D	
Moment Unbraced Shear	6845 ft-lb 6845 ft-lb	8'5" 17919 ft-lb 8'5" 6853 ft-lb 6 5/8" 7980 lb	0.382 (38%) D 0.999 D (100%) 0.184 (18%) D	Uniform Uniform Uniform	End Grain								
	0.000 (L/999) 0.357 (L/550) 8'5	0 999.000 (L/0) 1/16" 0.546 (L/360)		Uniform									
Design Not	es				1								
 Provide sup may also be Fasten all p to exceed 6 Refer to las Girders are Top loads m Top must be 	port to prevent lateral m e required at the interior lies using 2 rows of 10d	bearings by the buildin Box nails (.128x3") at r fasteners required for ed on the bottom edge ly by all plies. aximum of 14'4 5/16" o	g code. 12" o.c. Maximum end c specified loads. only.										
ID	Load Type	Location Tr	ib Width Side	Dead 0.9	Live			Wind 1.6			mments		
1	Uniform Self Weight		Тор	195 PLF 9 PLF	0 PL	F	0 PLF	0 PLF	0 P	LF C10	θE		
structural adequacy c design criteria and responsibility of the c	Designs is responsible only of the f this component based on the loadings shown. It is the ustomer and/or the contractor to mt suitability of the intended	1. LVL beams must not be cut o 2. Refer to manufacturer's regarding installation re	pond r drilled product information quirements, multi-ply	flat roofs provide p	roper drainage to	prevent	Manufacture Metsä Wood 301 Merritt 7 Norwalk, CT 800) 622-58:	Building, 2nd 06851	Floor	Comtect 1001 S F Fayettev Cumbert 28314	Reilly Road		
application, and to veri Lumber 1. Dry service condition	fy the dimensions and loads.	fastening details, beam stre approvals 3. Damaged Beams must not b 4. Design assumes top edge is 5. Provide lateral support at t lateral displacement and rota	e used aterally restrained earing points to avoid	s design is valid	until 6/28/202	Ň	www.metsaw						

Í	isDesign		Client: Project: Address:	J Matthews Builde Jasmine			ut by: Jonathan Landry	Page 2 of 2
ļ	Ispesign		Address:	Lot 2 NC-Hwy 2 Lillington, NC 27	7 7546		Name: Lot 2 NC-Hwy 27 ject #: J0125-0086	
GDH	Kerto-S	LVL	1.750"	X 11.875"	2-Ply ·	PASSED	Level: Level	
							I	
	· ·	•	· ·		• •			
1 SPF	End Grain 0-3-8		<u> </u>		<u> </u>		2 SPF E	End Grain 0-3-8
					16'10"			3 1/2"
1					16'10"			1
Multi-Ply	y Analysis							
Fasten all Capacity	l plies using 2 i	rows of 7		(.128x3") at 12"	o.c Maxim	um end distan	ce not to exceed 6".	
.oad ⁄ield Limit p	er Foot	0.0						
'ield Limit p	er Fastener	81.9						
ĩeld Mode		1 IV						
dge Distan		1 1/2	2"					
/lin. End Dis .oad Combi		3"						
Duration Fac	ctor	1.00)					
N-4			chomicala		6 Eor flat	ido propor designante	Manufacturer Info	Comtech, Inc.
	ctured Designs is responsible		chemicals landling & Installa		 For flat roofs prov ponding 	vide proper drainage to pr	Metsä Wood	1001 S Reilly Road Fayetteville
design criteria	uacy of this component ba and loadings shown. f the customer and/or the c	It is the	LVL beams must not be Refer to manufact	urer's product information			301 Merritt 7 Building, 2nd Norwalk, CT 06851	Floor Cumberland 28314
ensure the co	the customer and/or the component suitability of the to verify the dimensions and	ne intended I loads.	fastening details, bea approvals	n requirements, multi-ply m strength values, and code			(800) 622-5850 www.metsawood.com/us	
Lumber	conditions, unless noted othe	3	 Damaged Beams must Design assumes top er 	dge is laterally restrained				
	conditions, unless noted othe be treated with fire retardant	erwise r	 Provide lateral suppo lateral displacement ar 	rt at bearing points to avoid	This desires is	valid until 6/28/2026		