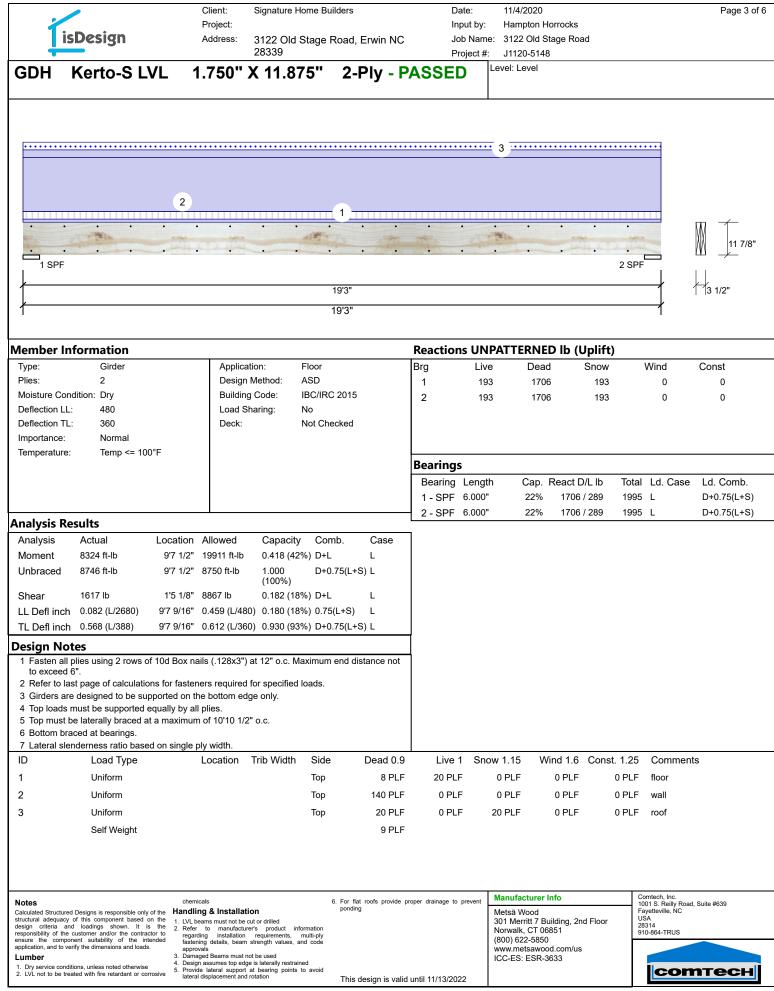


				Signature Home B	uilders	Date:	11/4/2020		Page 2 of 6
1 1	icDocign		Project:			Input by			
	isDesign		Address:	3122 Old Stage 28339	Road, Erwin N	C Job Nar Project	me: 3122 Old Stage Road #: J1120-5148		
	Karta C	1 \ /I			2 0 0 1		Level: Level		
BM1	Kerto-S	LVL	1./50	X 9.250	Z-Piy	- PASSED			
									= 1
•	•	•	•	•	•	•	• •	•	\$IMM ∃
									₩ 9 1/4"
	•	•	•	•	•	•	• •	• <u>-</u>	
	1 SPF							2 SPF	
					9'7"			f	3 1/2"
					9'7"				
								Į.	
-	y Analysis								
	l plies using 2 ro		Box nails (.	128x3") at 12"	o.c Maximu	m end distance	not to exceed 6"		
Capacity Load		0.0 % 0.0 PLF							
Yield Limit p		163.7 PL	F						
Yield Limit p Yield Mode		81.9 lb. IV							
Edge Distan		1 1/2"							
Min. End Dis	stance	3"							
Load Combi Duration Fac		1.00							
Duration rat		1.00							
Notes		chem	icals		6. For flat roofe provid	de proper drainage to prevent	Manufacturer Info	Comtech, In	c. ly Road, Suite #639
Notes Calculated Struct	ictured Designs is responsible or	nly of the Handli	ng & Installatio		ponding	proportarianago to provent	Metsä Wood	Fayetteville,	ny Road, Suite #639 NC
design criteria	uacy of this component based a and loadings shown. It if the customer and/or the cont	is the 2. Refer		's product information			301 Merritt 7 Building, 2nd F Norwalk, CT 06851	loor 05A 28314 910-864-TR	JS
ensure the co	to verify the dimensions and loa	intended faster ds. appro	ning details, beam st ovals	requirements, multi-ply trength values, and code			(800) 622-5850 www.metsawood.com/us		
Lumber	conditions, unless noted otherwise	3. Dama 4. Desig	aged Beams must not on assumes top edge i	is laterally restrained			ICC-ES: ESR-3633		
2. LVL not to b	be treated with fire retardant or o		de lateral support at al displacement and ro	bearing points to avoid tation	This design is v	alid until 11/13/2022		C	отесн



isDesign	Client: Project: Address:	28339	Road, Erwin NC	Date: Input by: Job Name Project #:	J1120-5148	Page 4 of
GDH Kerto-S L	.VL 1.750"	X 11.875"	2-Ply - PAS	SED	evel: Level	
· · · ·	· · ·	• •		•	· · · ·	· · · · · · · · · · · · · · · · · · ·
1 SPF	• • •			•		2 SPF
ł			19'3"			3 1/2"
ł			19'3"			
Iulti-Ply Analysis						
asten all plies using 2 rov apacity	vs of 10d Box nails	(.128x3") at 12"	o.c Maximum end	distance no	t to exceed 6"	
ad	0.0 PLF					
ld Limit per Foot Id Limit per Fastener	163.7 PLF 81.9 lb.					
ld Mode	IV 4.4/01					
ge Distance n. End Distance	1 1/2" 3"					
ad Combination	0					
uration Factor	1.00					
					Manufacturer Info	Comtech, Inc.
lotes alculated Structured Designs is responsible onl		ion	For flat roofs provide proper drait ponding	hage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
tructural adequacy of this component based esign criteria and loadings shown. It	on the 1. LVL beams must not be is the 2 Refer to manufacture				301 Merritt 7 Building, 2nd Floor	USA 28314
sponsibility of the customer and/or the contra- sure the component suitability of the in	actor to regarding installation fastening details, beam	requirements, multi-ply strength values, and code			Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
pplication, and to verify the dimensions and load	 approvals Damaged Beams must r Design accurace top off 	not be used			www.metsawood.com/us ICC-ES: ESR-3633	
 Dry service conditions, unless noted otherwis LVL not to be treated with fire retardant or control 	e 4. Design assumes top edg 5. Provide lateral support lateral displacement and	at bearing points to avoid	The design of the second			сотесн
	aterar usplacement and		This design is valid until 11	/13/2022		

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Ĺ	sDesign	F	Project: Address: 3 [,]			^s d, Erwin NC	lr J		11/4/2020 Hampton He 3122 Old St	age Road		Page 5 of 6
3M2	Kerto-S L	/L 1		³³³⁹ X 9.25	50"	2-Ply -		roject #: ED	J1120-5148 evel: Level			
· · · · · · · · · · · ·									ন			
				1								\mathbf{M} 1
	Contra				atter you		-					9 1
 1 SP	F							2 SPF				
, ,				2"					7			3 1/2"
]			6'	2"					1			
	nformation						-		ATTERNE	D lb (Uplift)		
ype: Nies:	Girder 2		Application Design Me		loor SD		Brg 1	Live 0	Dead 1669		Wind 0	Const 0
	ndition: Dry		Building Co		BC/IRC 201	5	2	0	1669		0	0
eflection L Deflection T			Load Shari Deck:	•	lo lot Checked	ч						
nportance:			Dook			4						
emperature	e: Temp <= 100°F	F										
							Bearing	s				
							-	Length	-	React D/L lb	Total Ld. Case	
							1 - SPF		64%	1669 / 1647	3315 L	D+S
nalysis R	esults		•				2 - SPF	3.500"	64%	1669 / 1647	3315 L	D+S
Analysis		Location A	Allowed	Capacity	Comb.	Case	7					
<i>l</i> oment	4379 ft-lb	3'1" 1		0.304 (30%	,	L						
Inbraced	4379 ft-lb			0.403 (40%		L						
Shear	2240 lb			0.282 (28%		L						
	h 0.035 (L/1937)		0.143 (L/480)		-	L						
	h 0.071 (L/962)	3'1" (0.285 (L/240)	0.250 (25%	5) D+S	L	-					
esign No				- <u>.</u>			4					
	re designed to be supp blies must be fastened to		•									
3 Top loads	s must be supported equ											
	ed at bearings. raced at bearings.											
	enderness ratio based of	on single ply	y width.									
D	Load Type	L	ocation Tri	b Width	Side	Dead 0.9	Live	1 Snow	1.15 W	ind 1.6 Const	1.25 Comme	nts
1	Uniform				Тор	534 PLF	0 PL	F 534	4 PLF	0 PLF	0 PLF A1	
	Self Weight					7 PLF						
	Self Weight					7 PLF						
Notes		chemica	ls			flat roofs provide	proper drainage to	prevent	lanufacturer l	nfo	Comtech, Inc. 1001 S. Reilly Roa	ad. Suite #639
alculated Structur	red Designs is responsible only of t by of this component based on t	the 1 IVI here	g & Installation ms must not be cut or	drilled	pon	ding			/letsä Wood 01 Merritt 7 Bu	ilding, 2nd Floor	Fayetteville, NC USA	
tructural adequad	and loadings shown. It is t	the 2 Pofor		product inforr	mation			S S	Jorwalk, CT 06	851	28314 910-864-TRUS	
tructural adequad lesion criteria a	e customer and/or the contractor	to regarding	a installation rec	uirements. m	ulti-plv						910-864-TRUS	
tructural adequac lesign criteria a esponsibility of th insure the comp ipplication, and to	e customer and/or the contractor ponent suitability of the intend verify the dimensions and loads.	to regardin led fastening approval	g installation reo g details, beam strer ls	quirements, mi ngth values, and	ulti-plv			5) W	800) 622-5850 /ww.metsawoo	d.com/us	910-864-TRUS	
tructural adequacesign criteria asponsibility of the sume the composition, and to .umber I. Dry service con	e customer and/or the contractor conent suitability of the intend	to regardin fastening approval 3. Damage 4. Design a	g installation reo g details, beam strer	quirements, mi ngth values, and used aterally restrained	ulti-ply I code			5) W	800) 622-5850	d.com/us		птесн

CSD DESIGN

Í.	sDesign		Project:	-	Home Build		h)ate: nput by: ob Name:	11/4/2020 Hampton F 3122 Old S			Page 6 of 6
	spesign		Address:	3122 Old 28339	Stage Ro	oad, Erwin NC		ob Name: Project #:	J1120-514			
BM3	Kerto-S L	VL	1.750"	X 9.2	250"	2-Ply -			evel: Level			
				1								
												\overline{M} 1
												9
	and the second s		and the second		1181.1							
	=							2 SPF				
				6'2"								3 1/2"
1				6'2"					1			
ember lı	nformation						Reactio	ns UNP	ATTERNE	D lb (Uplift))	
Гуре:	Girder		Applicat		Floor		Brg	Live	Dea	d Snow	Wind	Const
Plies: <i>N</i> oisture Co	2 ndition: Dry		Design I Building		ASD IBC/IRC 2	2015	1	0	147 147		0	0
Deflection LL	.: 480		Load Sh	aring:	No		-	Ū			C C	Ū
eflection TI			Deck:		Not Check	ked						
mportance:	Normal											
emperature	:: Temp <= 100	Р́Е					Bearing	<u>د</u>				
								Length	Can	React D/L lb	Total Ld. Ca	ase Ld. Comb.
							1 - SPF	-	56%	1478 / 1455	2933 L	D+S
							2 - SPF		56%	1478 / 1455	2933 L	D+S
nalysis R												
Analysis	Actual	Location		Capacit	-							
/loment	3874 ft-lb 3874 ft-lb		14423 ft-lb 10861 ft-lb	•	7%) D+S 6%) D+S	L						
Jnbraced Shear	1982 lb		7943 lb	0.249 (2		L 						
	0.031 (L/2191)		0.143 (L/480			L						
	n 0.063 (L/1087)		0.285 (L/240			L						
esign No			,	, (,		1					
	re designed to be sup	ported on th	e bottom edg	je only.			4					
	lies must be fastened	•	•	turer's deta	ails.							
•	must be supported e d at bearings.	qually by all	plies.									
5 Bottom br	aced at bearings.											
	enderness ratio based			T	O: da	Deedo	1.5	1 0		(in al. 4. 0	4.05 0	
D	Load Type		Location			Dead 0.9				/ind 1.6 Const		ients
	Uniform				Тор	472 PLF		.F 47	2 PLF	0 PLF	0 PLF A2/3	
	Self Weight					7 PLF						
									Monufacture	Info	Comtash Ir-	
otes	ed Designs is responsible only o	chemi	^{cals} 1g & Installatio	on		For flat roofs provide ponding	proper drainage to	prevent	Manufacturer Metsä Wood	IIIO	Comtech, Inc. 1001 S. Reilly Fayetteville, N	Road, Suite #639 C
ructural adequacy sign criteria a	of this component based or nd loadings shown. It is	the 1. LVL be the 2 Refer	eams must not be cu to manufacture	ut or drilled	nformation			3	301 Merritt 7 B	uilding, 2nd Floor	USA 28314	
sponsibility of the	e customer and/or the contract onent suitability of the inte erify the dimensions and loads.	or to regard inded fasten	ling installation ing details, beam s	requirements,	multi-ply			(Norwalk, CT 06 (800) 622-5850)	910-864-TRUS	3
oplication, and to v umber	erity the dimensions and loads.	3. Dama	/als ged Beams must no	t be used					www.metsawo			
Dry service cond	ditions, unless noted otherwise eated with fire retardant or corr	. 5. Provid	n assumes top edge e lateral support a displacement and r	at bearing points	s to avoid							тесн
LVL not to be th		lateral	uspiacement and r	orauori		This design is vali	1 until 11/13/20	122				