Í.	Posisn	Pr	oject:	Signature				Date: Input I	oy: Ar	21/2024	Villiams					Page 1 of
	Design	Ac	dress:	Lot 10 Jo	ones Creek			Job Na Projec		nclair P)524-30						
IDR-1 8	2 Kert	o-S LVL	1.75	50" X	9.250"	2-Plv -	PA			: Level						
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	End Grain 0-3-0					2 SPF E	End Gra	ain 0-3-0							I.	1
 			5'	6"				\rightarrow								3 1/2"
· · · · · · · · · · · · · · · · · · ·			F	6'				•	\rightarrow							
lember Inf	formation						Read	tions l	ΙΝΡΔΤ	TFRN	FD lb	(Uplift)				
Туре:	Girder		Applicatio	on:	Floor		Brg	Directio		Live		Dead	Snov	w	Wind	Со
Plies:	2		Design M		ASD		1	Vertical		0		1447	133	5	0	
Moisture Conc			Building (IBC/IRC 2015		2	Vertical		0		1447	133	,5	0	
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mportance:	Normal - II		Deck.		Not Checked											
emperature:	Temp <= 10	0°F														
·	·						Bear	ings								
							Bea	ring Lei	ngth D)ir.	Cap. F	React D/L I	b To	otal Ld	. Case	Ld. Corr
							1 - S End	SPF 3.0	00" V	'ert	32%	1447 / 133	5 2	782 L		D+S
nalysis Re	sults	I					Gra									
Analysis	Actual	Location Al	lowed	Capacit	y Comb.	Case		SPF 3.0	00" V	'ert	32%	1447 / 133	52	782 L		D+S
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	0.028 (L/2413)	3' 0.1	141 (L/480)	0.199 (2	0%) S	L										
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esign Not							1									
	port to prevent lat e required at the in				bearings. Late	ral support										
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to exceed 6 3 Refer to las	5". It page of calculation	ons for fasteners	required fo	or specified	lloads											
	designed to be su		-	-												
	nust be supported e laterally braced a		es.													
	st be laterally brace	-	gs.													
	iderness ratio base	ed on single ply														
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2	Uniform				Тор	30 PLF		0 PLF	0 PI	LF	0 PL	F C) PLF	WALL		
	Self Weight					7 PLF										
		chemicals	R Installation	n	6. For fla pondin	at roofs provide pi ig	roper drain	age to preve	au	ufacture	r Info					
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alculated Structured ructural adequacy of	Designs is responsible only of this component based loadings shown. It	on the 1. LVL beams	s must not be cut	or drilled	oformation							2nd Floor				
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alculated Structured ructural adequacy c esign criteria and sponsibility of the c sure the compon	of this component based loadings shown. It customer and/or the contra	on the is the actor to thended s. actor to s. actor to actor to to actor to to to to to to to to to to to to to t	must not be cut manufacturer's installation	or drilled s product in requirements, rength values, be used	multi-ply and code				Norw (800)	/alk, CT (06851 50					

isDesign	Client: Signature Homes Project: Address: Lot 10 Jones Creek	Date: Input by: Job Name:		Page 2 of 6
HDR-1 & 2 Kerto-S LV	L 1.750" X 9.250"	2-Ply - PASSED	J0524-3015 evel: Level	
	• • •	•••	→ ≺1 1/2"	9 1/
1 SPF End Grain 0-3-0	5'6" 6'	2 SPF End Grain 0-3-0		3 1/2"
Multi-Ply Analysis Fasten all plies using 2 rows of 10d Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 163.7 PL Yield Limit per Fastener 81.9 lb. CM 1 Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor		Maximum end distance no	t to exceed 6".	
Calculated Structured Designs is responsible only of the Handl	ing & Installation pondia	ng	Manufacturer Info Metsä Wood	
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. Lumber 1. Dry service conditions, unless noted otherwise 0. Dry service conditions, unless noted otherwise	beams must not be cut or drilled r to manufacturer's product information ring installation requirements, multi-ply ning details, beam strength values, and code vorals aged Beams must not be used gn assumes top edge is laterally restrained die lateral support at bearing points to avoid		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	

Ispering Addem Lot 10 Jones Creek Lot Notes Ender Instant HDR-3 Kerto-S LVL 1.750" X 9.250" 2-PLy - PASSED Image: Additional state of the state of	2	•		ent: S oject:	ignature Homes		Date: Input by:	5/21/20 : Anthony	24 y Williams			Page 3 of
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4	· - ·	Clien Proje	ect:		Date: Input by:		Page 4 of 6
	isDesign	Addr	ess: Lot 10 Jones C	reek	Job Nam Project #		
HDR-	3 Korto-S		750" X 9.250"	2-Dlv	- PASSED	Level: Level	
			750 X 5.250	Z -1 1y			
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•	٠	•	•	•	• • -	i X	
	PF End Grain 0-3-0		5'6"	2 SI	PF End Grain 0-3-0		3 1/2"
∤			6'			+	
Multi-Plv	/ Analysis						
-	-	s of 10d Box I	nails (.128x3") at 12"	o.c Maximu	ım end distance n	ot to exceed 6".	
Capacity		0.0 % 0.0 PLF					
Load Yield Limit pe		0.0 PLF 163.7 PLF					
Yield Limit pe Cm	er Fastener	81.9 lb. 1					
Yield Mode		IV					
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Notes Calculated Struct	tured Designs is responsible only	chemicals of the Handling & II	nstallation	For flat roofs provi ponding	de proper drainage to prevent	Manufacturer Info Metsä Wood	
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	Design		Project:				-	out by:		y William	s				
	sDesign	A	Address:	Lot 10 Jo	nes Creek			o Name: oject #:	Sinclair J0524-						
GDH	Karta C I \	// /	750"	V 4 4 0	00" 2			-	evel: Lev						
GDH	Kerto-S L\	/ 1.	150 /	X 14.0	00 2	-Piy - P	ASSEL	,							
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	and the .		• • • •		all a mar	-	•			•		•		MM	1'2"
	CARLES AND A DESCRIPTION	-					all and a second		COLUMN THE	·	· · · ·		•	W	
1 SPF En	nd Grain 0-3-8									2	SPF End Gr	ain 0-3-8			
∤───					18'3"	,						\longrightarrow			1/2"
/					18'10)"							+		
Member In	formation						Reaction	s UNP	ΔTTFR		(Unlift)				
Туре:	Girder		Applicat	tion:	Floor		Brg Dire		Liv		Dead	Snow	,	Wind	Const
Plies:	2		Design	Method:	ASD		1 Verti	cal		0	2363	377	,	0	0
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Temperature:		°F													
iompolataio.							Bearings								
							Bearing	Length	Dir.	Cap.	React D/L	lb To	tal Ld.	Case	Ld. Comb.
							1 - SPF	3.500"	Vert	27%	2363 / 3	77 27	39 L		D+S
A							End Grain								
Analysis Re		Leastien (Allowed	Consoit	Comb	<u></u>	2 - SPF	3.500"	Vert	27%	2363 / 3	77 27	39 L		D+S
Analysis	Actual	Location A		Capacity		Case	End								
Moment Unbraced	10589 ft-lb 12277 ft-lb		24299 ft-lb 12288 ft-lb	0.436 (44 0.999	.%) D D+S	Uniform L	Grain								
Unbraced	12277 11-10	95 1	2200 11-10	0.999 (100%)	D+3	L									
Shear	2009 lb	17'4 1/2" 9	9408 lb	0.214 (21	%) D	Uniform									
LL Defl inch	0.068 (L/3239)	9'5 1/16" C).459 (L/480	0) 0.148 (15	%) S	L									
TL Defl inch	0.495 (L/445)	9'5 1/16" 0).612 (L/360	0) 0.808 (81	%) D+S	L									
Design No	tes														
	upport to prevent later				bearings. Lat	teral support	7								
	pe required at the inte plies using 3 rows of	•		•	aximum end	distance not									
to exceed	6".		. ,												
	ist page of calculatior e designed to be sup		•	•	loads.										
	must be supported e	•		yo o											
	be laterally braced at			0.C.											
	ust be laterally braced inderness ratio based		•												
ID	Load Type			Trib Width	Side	Dead 0.9	Live 1	Snov	v 1.15	Wind '	I.6 Const	. 1.25	Comme	nts	
1	Uniform				Тор	40 PLF	0 PLF	2	40 PLF	0 P	LF	0 PLF	R + F		
2	Uniform				Тор	200 PLF	0 PLF		0 PLF	0 P	LF	0 PLF	WALL		
	Self Weight					11 PLF									
	5														
Notes		chemical	ls			flat roofs provide p	proper drainage to p	prevent	Manufactu	rer Info					
Calculated Structure	d Designs is responsible only o of this component based or		g & Installation		pone	ding			Metsä Woo 301 Morritt		2nd Eloor				
design criteria an responsibility of the	nd loadings shown. It is customer and/or the contract	the 2. Refer	ms must not be co to manufacture a installation		formation multi-ply				Norwalk, C	T 06851	, 2nd Floor				
ensure the compo application, and to ve	onent suitability of the inte erify the dimensions and loads.	nded fastening approval	g details, beam : Is	strength values, a	and code				(800) 622- www.metsa		n/us				
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	eated with fire retardant or corre		lateral support a isplacement and r	at bearing points rotation		is design is valid	l until 6/28/2026								

-		Client: Project:	Signature Homes		Date: Input by:	5/21/2024	Page 6
isDesign		Project: Address:	Lot 10 Jones C	reek		Anthony Williams e: Sinclair Plan	
					Project #		
GDH Kerto-S	S LVL	1.750"	X 14.000"	2-Ply -	PASSED	Level: Level	
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	• •	•••		•••			1'2"
1 SPF End Grain 0-3-8						2 SPF End Grain	0-3-8
ļ				40101			
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sten all plies using 3		d Box nails (.128x3") at 12"	o.c Maximur	n end distance n	ot to exceed 6".	
pacity ad	0.0 % 0.0 PL	F					
ld Limit per Foot	245.6						
ld Limit per Fastener	81.9 lb).					
ld Mode	1 IV						
ge Distance	1 1/2"						
n. End Distance	3"						
ad Combination ration Factor	1.00						
otes		chemicals			e proper drainage to prevent	Manufacturer Info	
Iculated Structured Designs is responsit uctural adequacy of this component b	based on the 1.1	ndling & Installation	on	ponding		Metsä Wood 301 Merritt 7 Building, 2nd Floor	
sign criteria and loadings shown.	It is the 2. F	Refer to manufacture regarding installation	r's product information requirements, multi-ply			Norwalk, CT 06851	
sure the component suitability of plication, and to verify the dimensions ar	the intended f id loads.	astening details, beam approvals	strength values, and code			(800) 622-5850 www.metsawood.com/us	
umber Dry service conditions, unless noted otl	3. E 4. E	Damaged Beams must no Design assumes top edge	is laterally restrained				
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