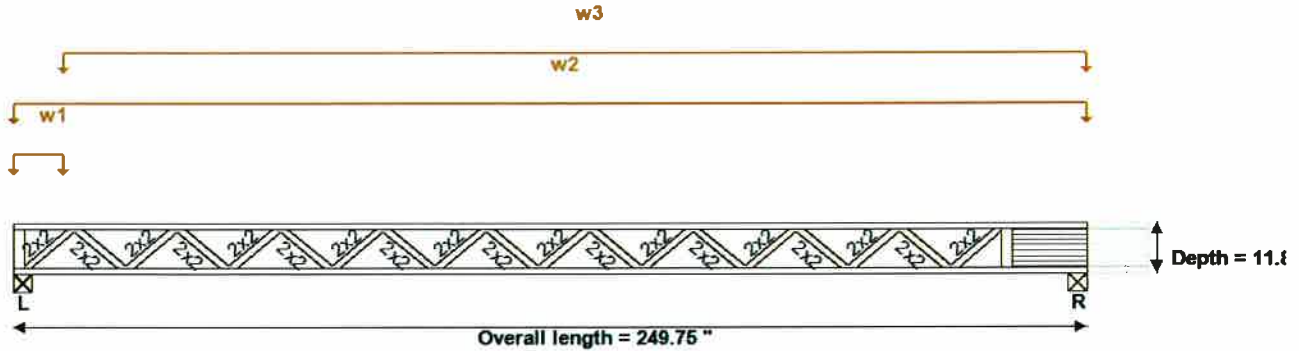
	Manufacturer or Distributor	References	filename: 14-0308 J3-B
	Fixed Trim Specification	Perimeter material	Joist Characteristics (Top-Bottom, Depth, Length, Plies, Spacing)
Left: 0.000", right: 14.250"	Left: None, right: None	Drawing by: Job number: 14-0308 Joist id: J3-B Customer: Building address: Project: 14-0308: 1st Level	OJ418 (4 X 2, 11 7/8", 22' - 0", 1 ply, 15.50" o.c.)



BEARING ANALYSIS					Uplift		LOAD CASES	
Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB	R (lb)	Critical LC - UNB	LC1 : D	LC2 : D+L
L	4.38, 2.19	729	0.32	2#1	-	-		
R	4.38, 247.56	737	0.59	2#1	-	-		

LEGEND: L: Live, D: Dead.

CHORD CONCENTRATED LOAD ANALYSIS					REINFORCEMENTS			
Label	P (lb)	P_s (lb)	$\frac{P}{P_s}$	Critical LC - UNB	No reinforcement required.			
No concentrated load in analysis.								

SHEAR AND BENDING ANALYSIS						LOADING		
at* (in)	V (lb)	V_s (lb)	C_o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB			
14.19	653.73	1100	1.00	0.59	2#1			
at* (in)	M (lb.ft)	M_s (lb.ft)	C_o	$\frac{M}{(M_s C_o)}$	Critical LC - UNB			
125.19	3701.88	6652	1.00	0.56	2#1	- w1 TOP UNIFORM load, Position (in) from LEFT: start=0.0000, end=11.7188, Magnitude (plf): L=20, D=7.5 - w2 TOP UNIFORM load, Position (in) from LEFT: start=0.0000, end=249.7500, Magnitude (plf): L=24.866, D=9.325 - w3 TOP UNIFORM load, Position (in) from LEFT: start=11.7188, end=249.7500, Magnitude (plf): L=26.667, D=10		

* From the left end of joist.


DEFLECTION								VIBRATIONS			
Δ	Span L-R	Critical LOAD CASE	UNB	Calculated			Criteria		Calc. Cr.		
				Δ (in)	Camb (in)	Δ -Camb (in)	Δ (in)				
Δ_{Live}	Span L-R	LCL1 : L	1	0.452	-	-	L/543	0.682	L/360	0.66	Sheating: 5/8 CSP Nailed CS (Continuous Strongback): NONE Strapping: NONE Gypsum Board: NONE
Δ_{Total}	Span L-R	LCT1 : D+L	1	0.621	-	0.621	L/395	1.022	L/240	0.61	NO VIBRATION VERIFIED

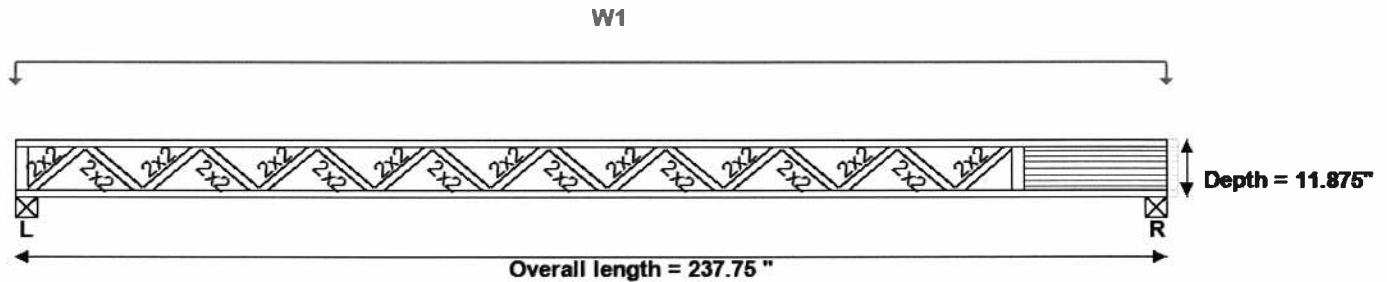
2009 ICC (USA)/1.4.1107.0

NOTES

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	Manufacturer or Distributor	References	filename: 14-0308_J1-D
		Drawing by: Job number: 14-0308 Joist id: J1-D Customer: Building address: Project: 14-0308: 1st Level	
Fixed Trim Specification	Perimeter material	Joist Characteristics (Top-Bottom, Depth, Length, Plies, Spacing)	
Left: 0.000", right: 2.250"	Left: None, right: None	OJ415 (4 X 2, 11 7/8", 20' - 0", 1 ply, 16.00" o.c.)	



BEARING ANALYSIS					Uplift		LOAD CASES	
Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB	R (lb)	Critical LC - UNB	LC1 : D	LC2 : D+L
L	4.38, 2.19	726	0.32	2#1	-	-		
R	4.38, 235.56	726	0.58	2#1	-	-		

LEGEND: L: Live, D: Dead.

CHORD CONCENTRATED LOAD ANALYSIS					REINFORCEMENTS			
Label	P (lb)	P_s (lb)	$\frac{P}{P_s}$	Critical LC - UNB	No reinforcement required.			
No concentrated load in analysis.								

SHEAR AND BENDING ANALYSIS						LOADING	
at* (in)	V (lb)	V_s (lb)	C_o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB	- W1 TOP AREA load, Position (in) from LEFT: start=0.0000, end=237.7500, Magnitude (psf): L=40, D=15	
14.19	639.76	1100	1.00	0.58	2#1		
at* (in)	M (lb.ft)	M_s (lb.ft)	C_o	$\frac{M}{(M_s C_o)}$	Critical LC - UNB		
119.19	3467.01	5231	1.00	0.66	2#1		

* From the left end of joist.


DEFLECTION							VIBRATIONS			
Δ	Span L-R	Critical LOAD CASE	UNB	Calculated		Criteria		Calc. Cr.	Sheating: 5/8 CSP Nailed CS (Continuous Strongback): NONE Strapping: NONE Gypsum Board: NONE	
				Δ (in)	Δ -Camb (in)	Δ (in)	L			
Δ_{Live}	Span L-R	LCL1 : L	1	0.455	-	L/513	0.648	L/360	0.70	
Δ_{Total}	Span L-R	LCT1 : D+L	1	0.625	-	L/373	0.972	L/240	0.64	NO VIBRATION VERIFIED

2009 ICC (USA)/1.4.1107.0

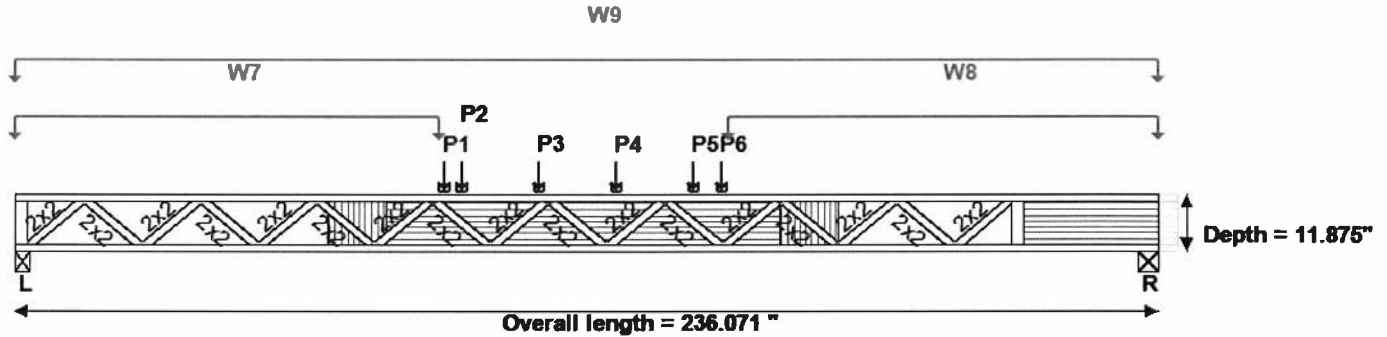
NOTES

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	Manufacturer or Distributor	References filename: 14-0308_G4
		Drawing by: Job number: 14-0308 Joist id: G4 Customer: Building address: Project: 14-0308: 1st Level
Fixed Trim Specification Left: 0.000", right: 3.929"	Perimeter material Left: None, right: None	Joist Characteristics (Top-Bottom, Depth, Length, Piles, Spacing) OJ415 (4 X 2, 11 7/8", 20' - 0", 2 plies, girder)

-(1): Vibration criteria are not applicable when a joist is used as a girder.



BEARING ANALYSIS					Uplift		LOAD CASES	
Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB	R (lb)	Critical LC - UNB	LC1 : D	LC2 : D+L
L	2.88, 1.44	1347	0.30	2#1	-	-		
R	4.20, 233.97	1352	0.54	2#1	-	-		

LEGEND: L: Live, D: Dead.

CHORD CONCENTRATED LOAD ANALYSIS					REINFORCEMENTS	
Label	P (lb)	P _s (lb)	$\frac{P}{P_s}$	Critical LC - UNB		
No concentrated load in analysis.					- Install 1 Load Transfer Clip Simpson MJC on BOTH CHORD at 88.625", 108.25", 124.25", and 146.125" or equivalent connection to transfer load between the plies. - Add WOOD FILLER: 2 plies of 1/2" PLYWOOD x 81.5" of length, CENTER at 117.375" from left end of joist, fixed on BACK side to webs with PL PREMIUM glue and 2" nails at 3" o.c. - Add REINFORCEMENT: 1/2" PLYWOOD x 105.5" of length, starting at 64.625" from left end of joist, fixed on BACK side in VERTICAL position to top and bottom chord with PL PREMIUM glue and 3" nails at 5" o.c. - Long reinforcement length specified may be achieved by connecting multiple pieces with an 8" long plate of same material as reinforcement, fixed with PL PREMIUM glue and 6 x 1.25" screws.	

SHEAR AND BENDING ANALYSIS					
at*	V (lb)	V _s (lb)	C _o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB
14.44	1258.84	2200	1.00	0.57	2#1
at*	M (lb.ft)	M _s (lb.ft)	C _o	$\frac{M}{(M_s C_o)}$	Critical LC - UNB
123.44	8272.56	10462	1.00	0.79	2#1

* From the left end of joist.

LOADING	
See page 2 of 2 for Loading description.	

DEFLECTION										VIBRATIONS	
Δ	Type	Span L-R	LCL1 : L	Critical		Calculated			Criteria		Calc. Cr.
				LOAD CASE	UNB	Δ (in)	Camb (in)	Δ-Camb (in)	Δ (in)	Criteria	
Δ _{Live}		Span L-R	LCL1 : L	1	0.529	-	-	L/440	0.646	L/360	0.82
Δ _{Total}		Span L-R	LCT1 : D+L	1	0.716	-	0.716	L/325	0.969	L/240	0.74

Sheating: 3/4 CSP Nailed
CS (Continuous Strongback): NONE
Strapping: NONE
Gypsum Board: NONE

NO VIBRATION VERIFIED (1)

2009 ICC (USA)/1.4.1107.0

NOTES

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LOADING

- P1 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=88.6250, Magnitude (lb): L=304.4, D=114.1
- P2 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=92.2500, Magnitude (lb): L=82.7, D=25.3
- P3 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=108.2500, Magnitude (lb): L=135, D=41.3
- P4 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=124.2500, Magnitude (lb): L=135, D=41.3
- P5 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=140.2500, Magnitude (lb): L=91.9, D=28.1
- P6 BACK CONCENTRATED load, Width (in)=2.5000, Position (in) from LEFT: Center=146.1250, Magnitude (lb): L=329.2, D=121.7
- W7 TOP AREA load, Position (in) from LEFT: start=0.0000, end=87.3750, Tributary (in)=8.4294, Magnitude (psf): D=15, L=40
- W8 TOP AREA load, Position (in) from LEFT: start=147.3750, end=236.0708, Tributary (in)=8.4294, Magnitude (psf): D=15, L=40
- W9 TOP AREA load, Position (in) from LEFT: start=0.0000, end=236.0708, Tributary (in)=7.5706, Magnitude (psf): D=15, L=40



Manufacturer or Distributor

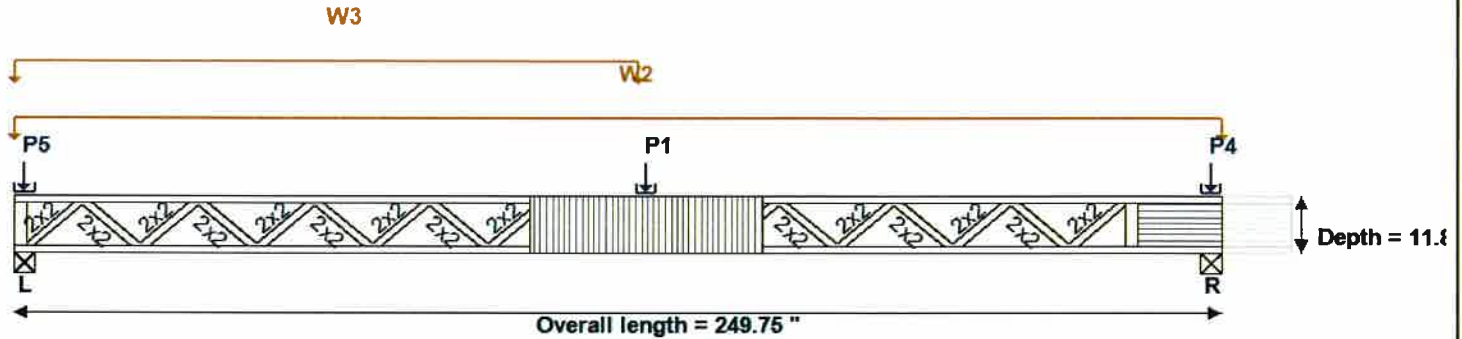
References filename: 14-0308 G1-B
 Drawing by:
 Job number: 14-0308
 Joist id: G1-B
 Customer:
 Building address:
 Project: 14-0308: 1st Level

Fixed Trim Specification
 Left: 0.000", right: 14.250"

Perimeter material
 Left: None, right: None

Joist Characteristics (Top-Bottom, Depth, Length, Pies, Spacing)
 OJ418 (4 X 2, 11 7/8", 22' - 0", 2 plies, girder)

-(1): Vibration criteria are not applicable when a joist is used as a girder.



BEARING ANALYSIS

Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB
L	4.38, 2.19	2391	0.53	2#1
R	4.38, 247.56	2085	0.83	2#1

Uplift

R (lb)	Critical LC - UNB
-	-
-	-

LOAD CASES

LC1: D
 LC2: D+L
 LEGEND: L: Live D: Dead

CHORD CONCENTRATED LOAD ANALYSIS

Label	P (lb)	P _s (lb)	C _d	$\frac{P}{(P, C_d)}$	Critical LC - UNB
P4	1042	2500	NaN	0.42	2#1
P5	1195	3188	NaN	0.37	2#1

REINFORCEMENTS

- Install 1 Load Transfer Clip Simpson MJC on BOTH CHORD at 122.875", and 138.875" or equivalent connection to transfer load between the plies.
- Add WOOD FILLER: 2 plies of 1/2" PLYWOOD x 24" of length, CENTER at 130.875" from left end of joist, fixed on FRONT side to webs with PL PREMIUM glue and 2" nails at 3" o.c.
- Add REINFORCEMENT: 1/2" PLYWOOD x 48" of length, starting at 106.875" from left end of joist, fixed on FRONT side in VERTICAL position to top and bottom chord with PL PREMIUM glue and 3" nails at 5" o.c.
- Install 1 strap on headers located on FRONT side at 130.875" from left end of joist.

* Loads from Left to Right.

SHEAR AND BENDING ANALYSIS

at* (in)	V (lb)	V _s (lb)	C _d	$\frac{V}{(V, C_d)}$	Critical LC - UNB
14.19	1108.62	2200	1.00	0.50	2#1

LOADING

- P1 FRONT CONCENTRATED load, Width (in)=3.5000, Position (in) from LEFT: Center=130.8750, Magnitude (lb): L=762.1, D=342.8
- W2 TOP AREA load, Position (in) from LEFT: start=0.0000, end=249.7500, Tributary (in)=7.4598, Magnitude (psf): D=15, L=40
- W3 TOP AREA load, Position (in) from LEFT: start=0.0000, end=129.1250, Tributary (in)=8.5402, Magnitude (psf): D=15, L=40
- P4 TOP CONCENTRATED load, Width (in)=4.3750, Position (in) from LEFT: Center=247.5625, Magnitude (lb): D=306, L=736.3
- P5 TOP CONCENTRATED load, Width (in)=4.3750, Position (in) from LEFT: Center=2.1875, Magnitude (lb): D=345.7, L=849.6

* From the left end of joist.

DEFLECTION


Δ	Span L-R	LOAD CASE	UNB	Δ (in)	Calculated		Criteria		Calc. Crl.	
					Camb (in)	Δ-Camb (in)	Δ (in)	U		
Δ _{Live}	Span L-R	LCL1: L	1	0.436	-	-	U/563	0.682	U/360	0.64
Δ _{Total}	Span L-R	LCT1: D+L	1	0.618	-	0.618	U/397	1.022	U/240	0.60

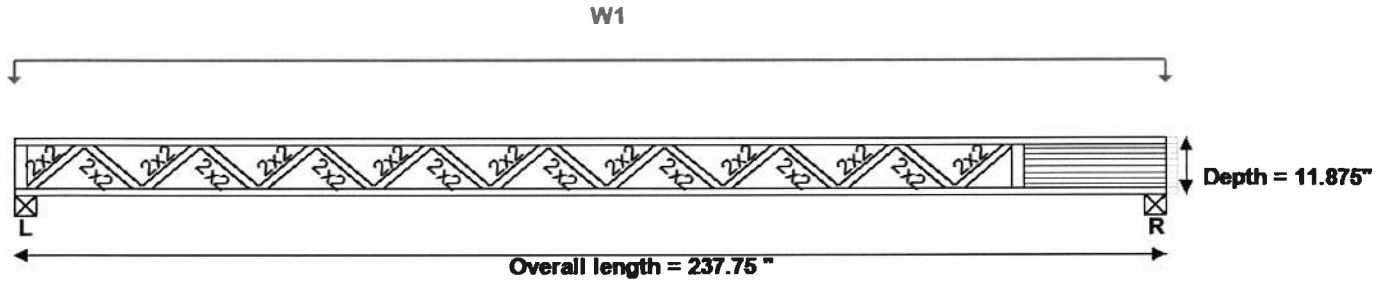
VIBRATIONS

Sheating: 3/4 CSP Nailed
 CS (Continuous Strongback): NONE
 Strapping: NONE
 Gypsum Board: NONE
NO VIBRATION VERIFIED (1)
 2009 ICC (USA)/1.4.1107.0

NOTES

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	Manufacturer or Distributor	References filename: 14-0308_J1-B
		Drawing by: Job number: 14-0308 Joist id: J1-B Customer: Building address: Project: 14-0308: 2nd Level
Fixed Trim Specification Left: 0.000", right: 2.250"	Perimeter material Left: None, right: None	Joist Characteristics (Top-Bottom, Depth, Length, Plies, Spacing) OJ415 (4 X 2, 11 7/8", 20' - 0", 1 ply, 16.00" o.c.)



BEARING ANALYSIS					Uplift		LOAD CASES	
Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB	R (lb)	Critical LC - UNB	LC1 : D	LC2 : D+L
L	4.38, 2.19	726	0.32	2#1	-	-		
R	4.38, 235.56	726	0.58	2#1	-	-		

LEGEND: D: Dead, L: Live.

CHORD CONCENTRATED LOAD ANALYSIS					REINFORCEMENTS	
Label	P (lb)	P_s (lb)	$\frac{P}{P_s}$	Critical LC - UNB	No reinforcement required.	
					No concentrated load in analysis.	

SHEAR AND BENDING ANALYSIS							LOADING	
at*	V (lb)	V_s (lb)	C_o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB	- W1 TOP AREA load, Position (in) from LEFT: start=0.0000, end=237.7500, Magnitude (psf): D=15, L=40		
14.19	639.76	1100	1.00	0.58	2#1			
at*	M (lb.ft)	M_s (lb.ft)	C_o	$\frac{M}{(M_s C_o)}$	Critical LC - UNB			
119.19	3467.01	5231	1.00	0.66	2#1			

* From the left end of joist.

DEFLECTION								VIBRATIONS			
Δ	Span L-R	Critical LOAD CASE	UNB	Calculated			Criteria		Calc. Crt.	Sheating: 5/8 CSP Nailed CS (Continuous Strongback): NONE Strapping: NONE Gypsum Board: NONE	
				Δ (in)	Camb (in)	Δ -Camb (in)	Δ (in)	U			
Δ_{Live}	Span L-R	LCL1 : L	1	0.455	-	-	L/513	0.648	L/360	0.70	
Δ_{Total}	Span L-R	LCT1 : D+L	1	0.625	-	0.625	L/373	0.972	L/240	0.64	NO VIBRATION VERIFIED

2009 ICC (USA)/1.4.1107.0

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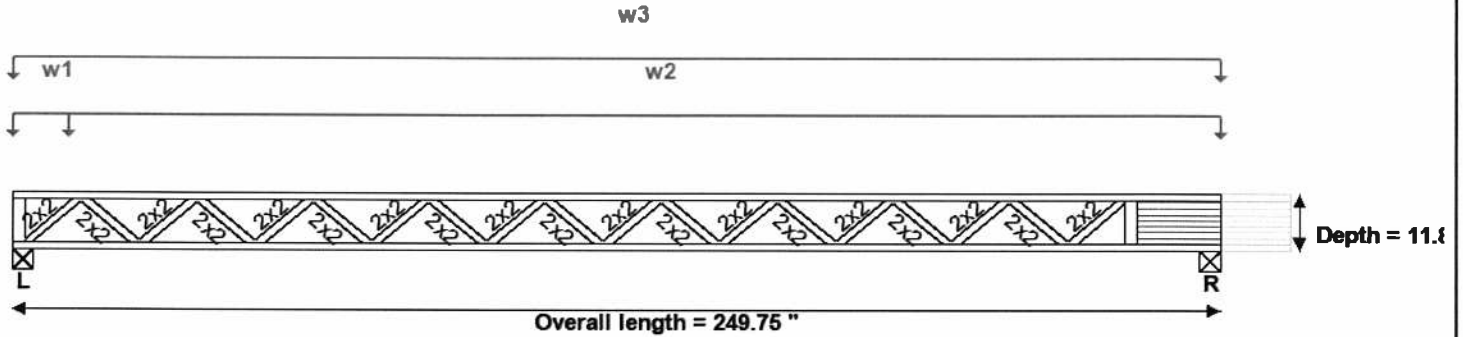
Manufacturer or Distributor

References
 filename: 14-0308_J3-A
 Drawing by:
 Job number: 14-0308
 Joist id: J3-A
 Customer:
 Building address:
 Project: 14-0308: 2nd Level

Fixed Trim Specification
 Left: 0.000", right: 14.250"

Perimeter material
 Left: None, right: None

Joist Characteristics (Top-Bottom, Depth, Length, Plies, Spacing)
OJ418 (4 X 2, 11 7/8", 22' - 0", 1 ply, 15.50" o.c.)



BEARING ANALYSIS

Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB
L	4.38, 2.19	729	0.32	2#1
R	4.38, 247.56	737	0.59	2#1

Uplift

R (lb)	Critical LC - UNB
-	-
-	-

LOAD CASES

LC1 : D
 LC2 : D+L
 LEGEND: D: Dead, L: Live.

CHORD CONCENTRATED LOAD ANALYSIS

Label	P (lb)	P_s (lb)	$\frac{P}{P_s}$	Critical LC - UNB
No concentrated load in analysis.				

REINFORCEMENTS

No reinforcement required.

SHEAR AND BENDING ANALYSIS

at* (in)	V (lb)	V_s (lb)	C_o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB
14.19	653.73	1100	1.00	0.59	2#1

LOADING

- w1 TOP UNIFORM load, Position (in) from LEFT: start=0.0000, end=11.7188, Magnitude (plf): D=7.5, L=20
 - w2 TOP UNIFORM load, Position (in) from LEFT: start=11.7188, end=249.7500, Magnitude (plf): D=10, L=26.667
 - w3 TOP UNIFORM load, Position (in) from LEFT: start=0.0000, end=249.7500, Magnitude (plf): D=9.325, L=24.866

* From the left end of joist.

DEFLECTION

Δ	Span L-R	Critical LOAD CASE	UNB	Calculated			Criteria		Calc. Cr.	
				Δ (in)	Camb (in)	Δ-Camb (in)	Δ (in)			
Δ _{Live}	Span L-R	LCL1 : L	1	0.452	-	-	L/543	0.682	L/360	0.66
Δ _{Total}	Span L-R	LCT1 : D+L	1	0.621	-	0.621	L/395	1.022	L/240	0.61

VIBRATIONS

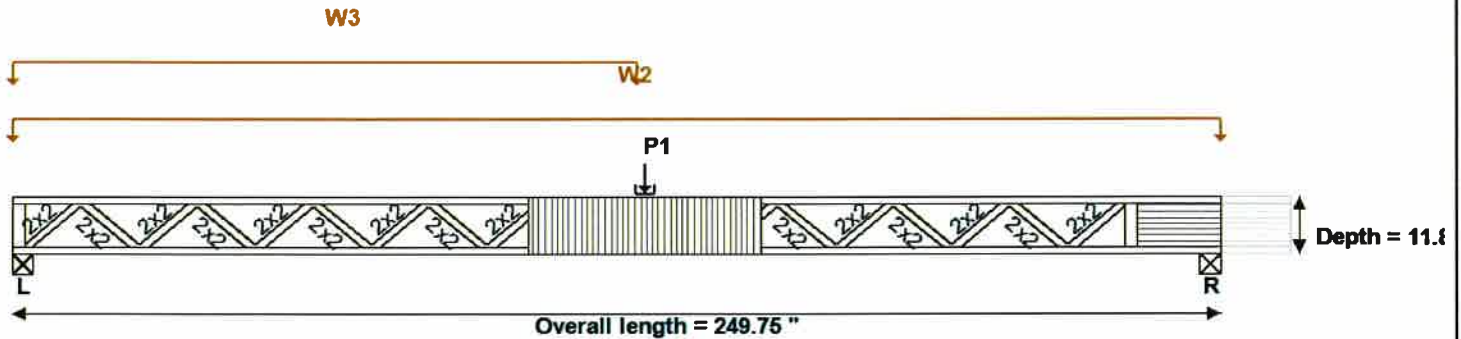
Sheating: 5/8 CSP Nailed
 CS (Continuous Strongback): NONE
 Strapping: NONE
 Gypsum Board: NONE
NO VIBRATION VERIFIED
 2009 ICC (USA)/1.4.1107.0

NOTES

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	Manufacturer or Distributor	References	filename: 14-0308_G1-A
		Drawing by: Job number: 14-0308 Joist id: G1-A Customer: Building address: Project: 14-0308: 2nd Level	
Fixed Trim Specification Left: 0.000", right: 14.250"	Perimeter material Left: None, right: None	Joist Characteristics (Top-Bottom, Depth, Length, Plies, Spacing) OJ418 (4 X 2, 11 7/8", 22' - 0", 2 plies, girder)	

-(1): Vibration criteria are not applicable when a joist is used as a girder.



BEARING ANALYSIS					Uplift		LOAD CASES	
Label	Width, Center (in)	R (lb)	$\frac{R}{R_s}$	Critical LC - UNB	R (lb)	Critical LC - UNB	LC1 : D	LC2 : D+L
L	4.38, 2.19	1195	0.26	2#1	-	-		
R	4.38, 247.56	1042	0.42	2#1	-	-		

LEGEND: L: Live, D: Dead.

CHORD CONCENTRATED LOAD ANALYSIS					REINFORCEMENTS
Label	P (lb)	P_s (lb)	$\frac{P}{P_s}$	Critical LC - UNB	
No concentrated load in analysis.					- Install 1 Load Transfer Clip Simpson MJC on BOTH CHORD at 122.875", and 138.875" or equivalent connection to transfer load between the plies. - Add WOOD FILLER: 2 plies of 1/2" PLYWOOD x 24" of length, CENTER at 130.875" from left end of joist, fixed on FRONT side to webs with PL PREMIUM glue and 2" nails at 3" o.c. - Add REINFORCEMENT: 1/2" PLYWOOD x 48" of length, starting at 106.875" from left end of joist, fixed on FRONT side in VERTICAL position to top and bottom chord with PL PREMIUM glue and 3" nails at 5" o.c. - Install 1 strap on headers located on FRONT side at 130.875" from left end of joist.

SHEAR AND BENDING ANALYSIS						LOADING	
at*	V (lb)	V_s (lb)	C_o	$\frac{V}{(V_s C_o)}$	Critical LC - UNB		
14.19	1108.62	2200	1.00	0.50	2#1		
at*	M (lb.ft)	M_s (lb.ft)	C_o	$\frac{M}{(M_s C_o)}$	Critical LC - UNB		
131.19	8440.51	13304	1.00	0.63	2#1		

* From the left end of joist.

- P1 FRONT CONCENTRATED load, Width (in)=3.5000, Position (in) from LEFT: Center=130.8750, Magnitude (lb): L=762.1, D=342.8
 - W2 TOP AREA load, Position (in) from LEFT: start=0.0000, end=249.7500, Tributary (in)=7.4598, Magnitude (psf): D=15, L=40
 - W3 TOP AREA load, Position (in) from LEFT: start=0.0000, end=129.1250, Tributary (in)=8.5402, Magnitude (psf): D=15, L=40

DEFLECTION							VIBRATIONS				
Δ	Span L-R	Critical LOAD CASE	UNB	Δ (in)	Calculated		Criteria		Calc. Cr.		
					Camd (in)	Δ -Camd (in)	Δ (in)	L/360			
Δ_{Live}	Span L-R	LCL1 : L	1	0.436	-	-	L/563	0.682	L/360	0.64	Sheating: 3/4 CSP Nailed CS (Continuous Strongback): NONE Strapping: NONE Gypsum Board: NONE
Δ_{Total}	Span L-R	LCT1 : D+L	1	0.618	-	0.618	L/397	1.022	L/240	0.60	NO VIBRATION VERIFIED (1) 2009 ICC (USA)/1.4.1107.0

NOTES

OPEN JOIST TRIFORCE® is in accordance with ICC 2009 and NDS-2005. OPEN JOIST TRIFORCE® was evaluated by ICC (report # ESR-2999) and is quality controlled by a qualified third part agency. Parts are joined together with phenol-resorcinol adhesives. Lumber used for diagonal and vertical web members is visually graded in-plant as per quality control manual. The end panel is made with 3/8" OSB, web stock quality. A sub-floor must be attached to the top chord member according to the building code. If specified, strong backs must be of dry lumber and attached to the joists, according to current practice. Required bearing length must be determined for each application based on specifications by the manufacturer and must never be less than 1.5 inches. OPEN JOIST TRIFORCE® must be used under dry conditions. Refer to the specifications by the manufacturer for details of installation.

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