

TRUE COPY  
OF PERMIT PLANS  
Oct 31 2023

Engineering Note: EWP-Floors



PER: *C. Martin*  
CHIEF BUILDING OFFICIAL

PLEASE READ ALL NOTES PRIOR TO INSTALLATION OF THE COMPONENT

### RESPONSIBILITIES

THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS ONLY LIMITED TO THE CALCULATION OF THIS BUILDING COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THIS DRAWING.

THE RESPONSIBILITY OF THE UNDERSIGNED IS LIMITED TO THE VERIFICATION OF THE STRUCTURAL CAPACITY OF THE FLOOR JOISTS AND LVL BEAMS BASED ON PLACEMENT AS SHOWN ON THE LAYOUT. THE LOADS APPLIED ARE LIMITED TO THE GRAVITY EFFECTS OF THE SPECIFIED LOADS. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE EFFECT OF WIND, UPLIFT, SEISMIC, LATERAL OR OTHER FORCES, CALCULATION OF ADEQUATE SUPPORT AND ANCHORAGE OF COMPONENTS, AS WELL AS THE DIMENSIONS AND DESIGN LOADS USED TO CALCULATE COMPONENTS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER. FLOOR JOISTS AND OSB RIM BOARD ARE DESIGNED TO CARRY UNIFORMLY DISTRIBUTED LOADS ONLY. POINT LOADS SHOULD BE TRANSFERRED THROUGH THE FLOOR CAVITY WITH TRANSFER BLOCKS. STRUCTURAL ELEMENTS SUCH AS WALLS, POSTS, CONNECTORS, AND TRANSFER BLOCKS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER.

THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF BEING FURNISHED FAULTY OR INCORRECT INFORMATION, SPECIFICATIONS AND/OR DESIGNS.

### COMPONENT DESIGN INFORMATION

1. THIS BUILDING COMPONENT IS CERTIFIED AS AN INDIVIDUAL COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE BASED ON INFORMATION PROVIDED BY KOTT DESIGN.
2. THE BUILDING COMPONENT USED IN CONSTRUCTION MUST BE THE SAME AS INDICATED ON THE DRAWINGS.
3. UNLESS NOTED OTHERWISE ON THE LAYOUT OR BEAM CALCULATION SHEET, MEMBERS CONSISTING OF MULTIPLE PLIES MUST BE CONNECTED AS PER THE DOCUMENT "MULTIPLE MEMBER CONNECTION DETAILS" SHOWN ON PAGE 2 OF THIS DOCUMENT.
4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

### CODE

THIS BUILDING COMPONENT IS DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, THE ONTARIO BUILDING CODE, CCMC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

### HANDLING AND INSTALLATION

1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.

# MHP 23031

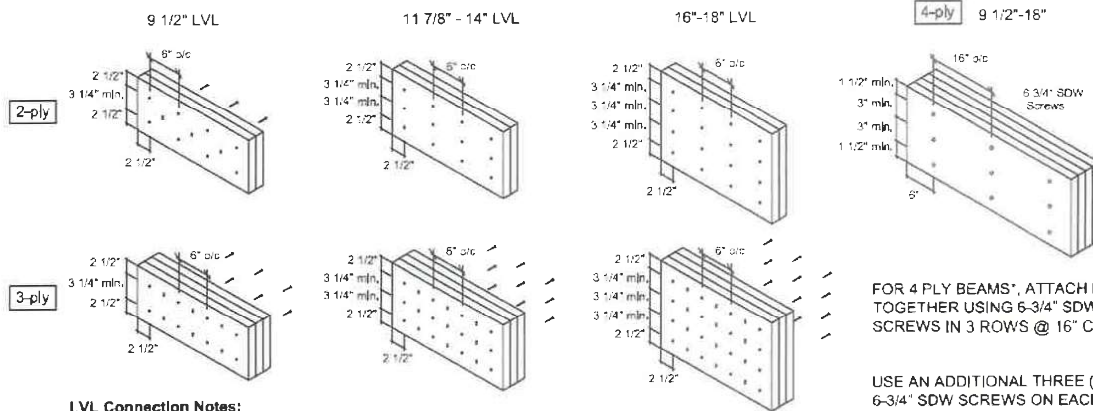
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## MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



### MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS



#### LVL Connection Notes:

- LVL ply width is 1-3/4"
- Nails to be 3 1/2" common wire nails.
- Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.
- Minimum 3 1/4" spacing between rows.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.
- Head of all specified screws must be on the loaded side.

FOR 4 PLY BEAMS\*, ATTACH PLYS TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C.

USE AN ADDITIONAL THREE (3) 6-3/4" SDW SCREWS ON EACH SIDE (OF EACH FACE) AT POINT LOAD LOCATIONS @ 1/2 SPACING, WHERE APPLICABLE.

\*UNLESS NOTED OTHERWISE ON LAYOUT OR CALCULATION SHEET OF BEAM IN THE FLOOR PACKAGE

FOR MULTIPLE MEMBER CONNECTION OF BOISE ALLJOISTS REFER TO THE BOISE CASCADE INSTALLATION GUIDE

#### Installation Guide



(Open your phone's camera and hover over this QR code to access it)

Last Revised January 13, 2023

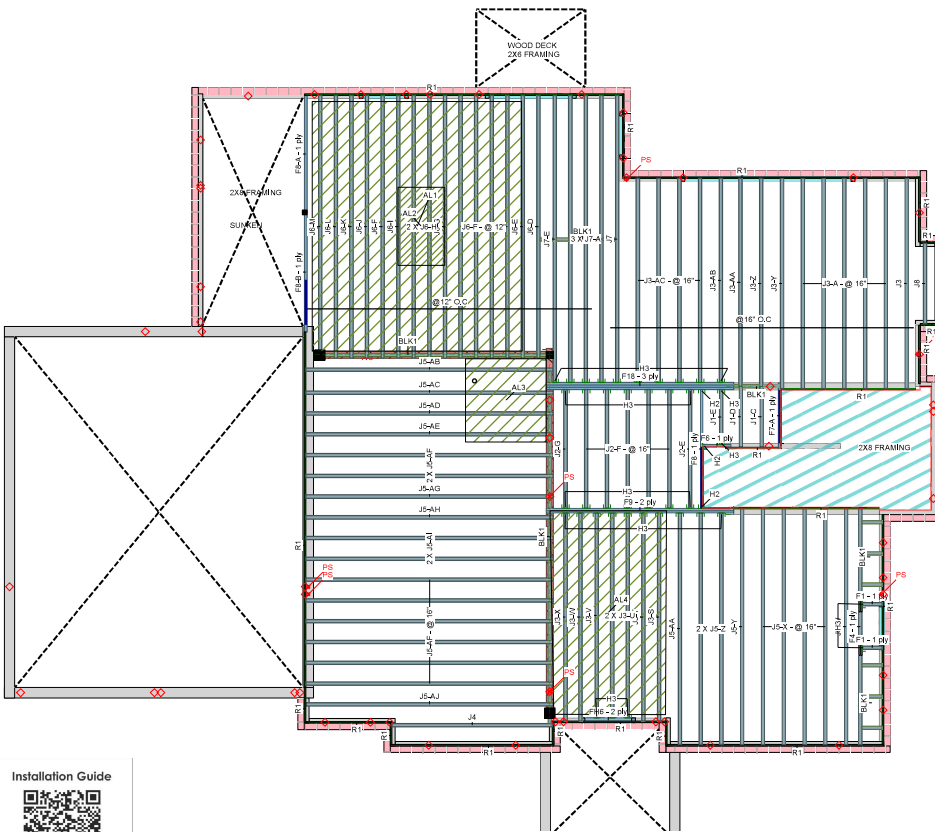


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Ground Floor



Hatch Area represents where additional load has been applied (e.g. 5 pcf for ceramic tile)

Ground Floor (Flush)								JOB INFORMATION	
Label	Description	Width	Depth	Qty	Piles	Pcs	Length	Builder GREENPARK	
F18	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	3	3	144-0	Project	
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	144-0	Shipping ZADORRA ESTATES OSHAWA, ON	
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			3	84-0	Sales Rep RALPH MIRIGELLO	
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	64-0	Designer W.C.	
FH8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	44-0	Plotted July 07, 2023	
F6	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	24-0	Layout Name ROSE 10-3 WOB	
Joist (Flush)								Job Path	
Label	Description	Width	Depth	Pcs	Length	8 \CUSTOMERS\GREENPARK\ZADORRA ESTATES MODEL\ROSE 10\ROSE 10-3\F-ROSE 10-3\WOB			
F4	AJS 140	2.5	11.875	1	164-0				
F1	AJS 140	2.5	11.875	2	24-0				
J7	AJS 140	2.5	11.875	5	204-0				
J6	AJS 140	2.5	11.875	15	184-0				
J5	AJS 140	2.5	11.875	26	164-0				
J3	AJS 140	2.5	11.875	21	144-0				
J4	AJS 140	2.5	11.875	1	124-0				
J2	AJS 140	2.5	11.875	7	84-0				
J8	AJS 140	2.5	11.875	1	64-0				
J1	AJS 140	2.5	11.875	3	44-0				
Rim Board								DESIGN CRITERIA	
Label	Description	Width	Depth	Pcs	Length	Ground Floor			
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	14	124-0	Design Method NBCC 2015 Bulking Code OBC 2020(2020 Update)			
Blocking								Floor Loads	
Label	Description	Width	Depth	Qty	Pcs	Length	Live 40 Dead 15		
BLK1	AJS 140	2.5	11.875	1	164-0	Deflection Joist		360	
Hanger								LL Span /	
Label	Pcs	Description	fasteners	fasteners	fasteners	fasteners	240		
H2	3	4L 853110	30 16d	10 16d	10 16d	10 16d	Deflection Flush Girder		
H5	41	LP2511	12 10x1 1/2	1 8x1 1/4WS	1 8x1 1/4WS	1 8x1 1/4WS	LL Span /		
								360	
								Deflection Dropped Girder	
								240	
								LL Span /	
								360	
								Deflection Header	
								240	
								LL Span /	
								360	
								Deflection Header	
								240	
								LL Span /	
								360	
								Decking	
								OSB	
								Thickness 3/4"	
								Fastener	
								Nailed & Glued	
CCMC References								Kott Inc.	
Boise - 12472-R, 12787-R LP - 12412-R, Roseburg - 13310-R Forex - 14035-R								3228 Moodie Dr. Ottawa	
								14 Anderson Blvd, Uxbridge, Ontario	
								613-838-2775 / 905-642-4400	
All blocking to be cut from 12' joists 2' & 4' Lengths to be cut from 6' Length, 6' lengths to be cut from 12' Length Ends of joists to be laterally supported Packing of Steel beams and attachment by others Shower and water down flange locations are approximate only, consult architectural drawing for exact locations Beams identified as "B" are dropped and supplied by others Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls Load transfer blocks to be installed under all point loads Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements Hangers and Fasteners to be installed as per manufacturer Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested gully connectors are as shown Where beam hangers on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member								KOTT	

- All blocking to be cut from 12' joists
- 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
- Ends of joists to be laterally supported
- Packing of Steel beams and attachment by others
- Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
- Beams identified as "B" are dropped and supplied by others
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- Load transfer blocks to be installed under all point loads
- Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
- Hangers and Fasteners to be installed as per manufacturer
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- Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load.
- Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown.
- Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member



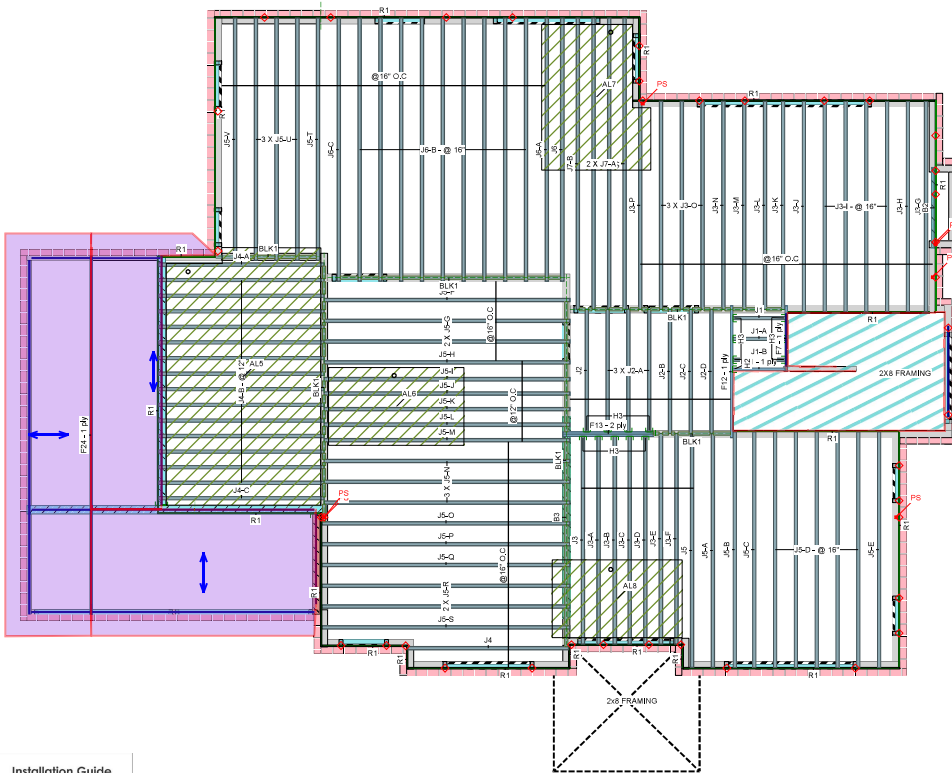
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Second Floor



Second Floor								JOB INFORMATION		
LVL/LSL (Flush)								Builder		
Label	Description	Width	Depth	Qty	Pies	Pcs	Length	GREENPARK		
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	10'-0"	Project		
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	6'-0"	Shipping		
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	6'-0"	ZADORRA ESTATES ZADORRA, CN		
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	4'-0"	Sales Rep		
								RALPH MIRIGELLO		
Joist (Flush)								Designer		
Label	Description	Width	Depth	Pcs	Length	W.C				
J7	AJS 140	2.5	11.875	4	20'-0"	Plotted				
J6	AJS 140	2.5	11.875	12	18'-0"	July 07, 2023				
J8	AJS 140	2.5	11.875	33	16'-0"	Layout Name				
J3	AJS 140	2.5	11.875	22	14'-0"	ROSE 10-3 STD.DC & WOB				
J4	AJS 140	2.5	11.875	17	12'-0"	Job Path				
J2	AJS 140	2.5	11.875	7	8'-0"	S1CUSTOMERSGREENPARKZADORRA ESTATE				
J1	AJS 140	2.5	11.875	3	4'-0"	MODELS/ROSE 10-3RSE 10-3RSE 10-3RSE				
Rim Board								10-3 STD & DC.HI		
Label	Description	Width	Depth	Pcs	Length					
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	17	12'-0"					
Blocking								DESIGN CRITERIA		
Label	Description	Width	Depth	Qty	Pcs	Length	Second Floor			
BLK1	AJS 140	2.5	11.875	Varies	60'-0"	Design Method				
Hanger								LSD (Canada)		
Label	Pcs	Description	Beam/Girder	Fasteners	Supported Members	NBCC 2015				
H2	1	HL51.517D	30 10x1 1/2	13 10x1	10 15d	OBC 2012(2020 Update)				
H3	15	LF2511	12 10x1 1/2	1 #6x1 1/4WS						
Second Floor								Floor		
Floor Loads								Loads		
Live								40		
Dead								15		
Deflection Joist								360		
LL Span /								240		
TL Span /								240		
Deflection Flush Girder								360		
LL Span /								240		
TL Span /								240		
Deflection Dropped Girder								360		
LL Span /								240		
TL Span /								240		
Deflection Header								360		
LL Span /								240		
TL Span /								240		
Decking								OSB		
Thickness								5/8"		
Fastener								Nailed & Glued		
CCMC References										
Boise - 12472-R, 12787-R										
LP - 12412-R, Roseburg - 13310-R										
Fores - 14056-R										
Kott Inc.								KOTT		
3228 Moodie Dr, Ottawa										
14 Anderson Blvd, Uxbridge										
Ontario										
613-438-2775 /										
905-642-4400										
Legend										
WS								Web Stiffener		
WS								In Hanger Label Denotes Web Stiffener		
PS								Point Load Support		
Load from Above								Wall		
Wall								Wall Opening		
Norbord Rimboard Plus 1.125 X 11.875								Versa-Lam LVL 2.1E 3100 SP 1.75 X		
AJS 140 11.875										

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