

**Engineering Notes: EWP-Floors****MHP 23039**

CORPORATION OF THE CITY OF OSHAWA  
TRUE COPY  
OF PERMIT PLANS  
No. 14 2023  
Nov 14 2023  
PER: *C. Morris*  
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 23039

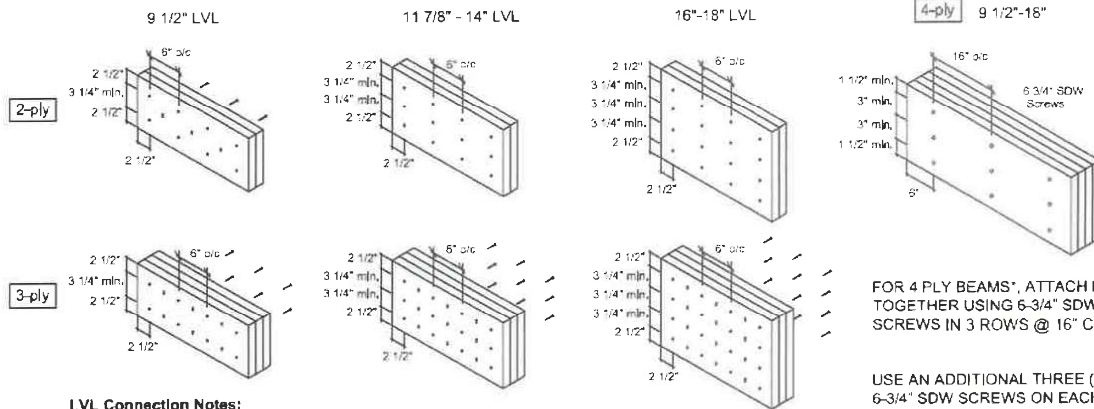
ENG-IM0723-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1,2,3

Page 2 of 37

## 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



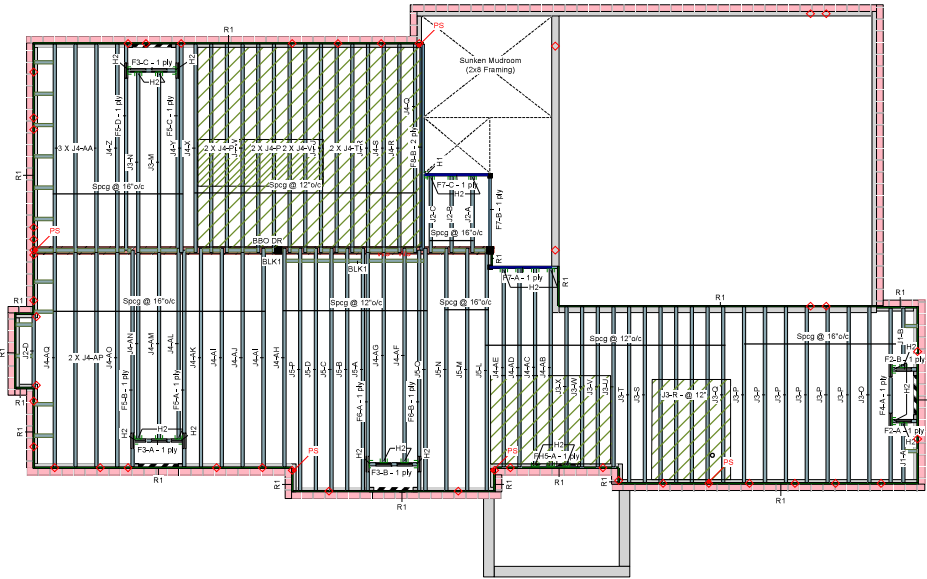
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Last Revised January 13, 2023

ENG-M072-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1 2-3

Page 3 of 37

Ground Floor



Ground Floor (LVL/LSL (Flush))										JOB INFORMATION		
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			Builder		
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	144-0			GREENPARK		
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			3	64-0			Project		
FHS	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	44-0			Shipping		
										ZADORRA ESTATES		
										OSHAWA, ON		
Joist (Flush)										Sales Rep		
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			RM		
F8	AJS 140	2.5	11.875			2	164-0			Designer		
F8	AJS 140	2.5	11.875			4	144-0			RCO		
F4	AJS 140	2.5	11.875			1	124-0			Plotted		
F3	AJS 140	2.5	11.875			3	44-0			July 18, 2023		
F2	AJS 140	2.5	11.875			2	24-0			Layout Name		
J5	AJS 140	2.5	11.875			9	164-0			VILLA 12-1.2		
J4	AJS 140	2.5	11.875			38	144-0			Job Path		
J3	AJS 140	2.5	11.875			20	124-0			C:\CUSTOMER\GREENPARK\ZADORRA ESTATES		
J2	AJS 140	2.5	11.875			4	64-0			VILLA 12F-VILLA 12-1WILLA 12-1.W		
J1	AJS 140	2.5	11.875			2	44-0					
Rim Board										DESIGN CRITERIA		
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			Ground Floor		
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875			13	124-0			Design Method	LSO (Canada)	
										Building Code	NBCC 2015 / OBC 2012	
Blocking										Floor		
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			Loads		
BLK1	AJS 140	2.5	11.875			Varies	424-0			Live	40	
										Dead	15	
										Deflection Joist		
										LL Span /	360	
										TL Span /	240	
										TL Cant 2/L	360	
										TL Cant 2/L	240	
										Deflection Flush Girder		
										LL Span /	360	
										TL Span /	240	
										LL Cant 2/L	360	
										TL Cant 2/L	240	
										Deflection Dropped Girder		
										LL Span /	360	
										TL Span /	240	
										LL Cant 2/L	360	
										TL Cant 2/L	240	
										Deflection Header		
										LL Span /	360	
										TL Span /	240	
										TL Cant 2/L	360	
										TL Cant 2/L	240	
										Decking	OSB	
										Thickness	3/4"	
										Fastener	3/8"	
										Vibration	Nailed & Glued	
Legend										CCMC References		
V/S	Web Stiffener										Boise - 12472-R, 12787-R	
W/S	In Hanger Label Denotes Web Stiffener										LP - 12412-R, Roseburg - 13310-R	
PS	Point Load Support										Form - 14055-R	
Load from Above											Kott Inc.	
Wall											3228 Moodie Dr. Ottawa	
Wall Opening											14 Anderson Blvd. Uxbridge	
Norbord Rimboard Plus 1.125 X 11.875											Ontario	
AJS 140 11.875											613-838-2775 /	
Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875											905-542-4400	

Installation Guide



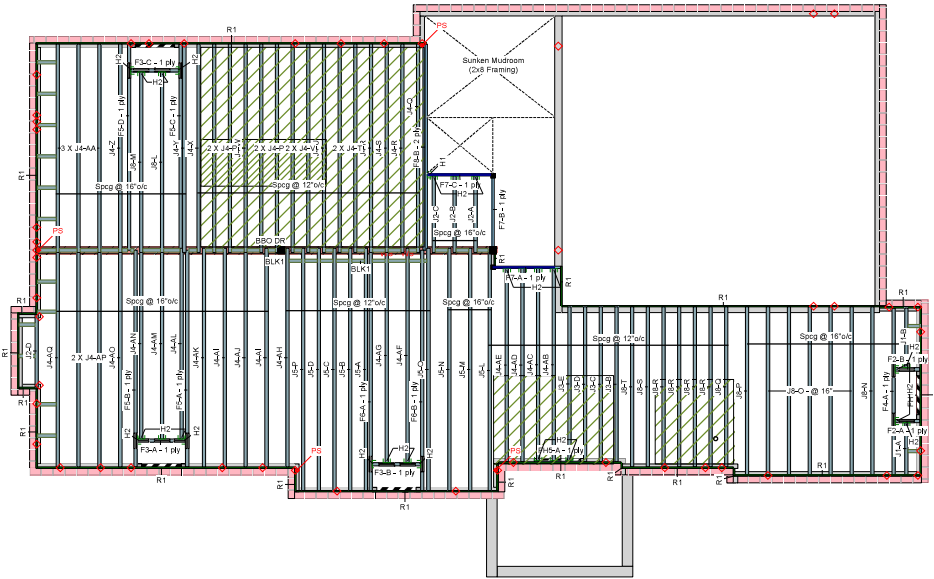
(Open your phone's camera and hover over this QR code to access it)

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

ENG-M072-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1 2-3

Page 4 of 37

Ground Floor



Ground Floor

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	144-0
F7	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			3	64-0
FHS	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	44-0

Joist (Flush)

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
F8	AJS 140	2.5	11.875			2	164-0
F5	AJS 140	2.5	11.875			4	144-0
F4	AJS 140	2.5	11.875			1	124-0
F3	AJS 140	2.5	11.875			3	44-0
F2	AJS 140	2.5	11.875			2	24-0
J5	AJS 140	2.5	11.875			9	164-0
J4	AJS 140	2.5	11.875			38	144-0
J8	AJS 140	2.5	11.875			16	124-0
J3	AJS 140	2.5	11.875			4	104-0
J2	AJS 140	2.5	11.875			4	64-0
J1	AJS 140	2.5	11.875			2	44-0

Rim Board

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875			13	124-0

Blocking

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
BX1	AJS 140	2.5	11.875	Unfr		Varies	424-0

Hanger

Label	Pcs	Description	Skew	Slope	fasteners	Supported Member
H1	1	US1 51710			30 16d	12 16d
H2	27	LF2511			12 103x1 1/2	1 88x1 1/4WS

1. All blocking to be cut from 12' joists

2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length

3. Ends of joists to be laterally supported

4. Packing of Steel beams and attachment by others

5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations

6. Beams identified as "B" are dropped and supplied by others

7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls

8. Load transfer blocks to be installed under all point loads

9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements

10. Hangers and Fasteners to be installed as per manufacturer

11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.

12. Multi Ply beams with side loading to have all fasteners installed with the head on the side of the applied load.

13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown

14. 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.

Legend

WS

Web Stiffener

PS

In Hanger Label Denotes Web Stiffener

PS

Point Load Support

W

Load from Above

W

Wall

W

Wall Opening

W

Norbord Rimboard Plus 1.125 X 11.875

W

AJS 140 11.875

W

Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875

CCMC References

Boise - 12472-R, 12787-R

LP - 12412-R, Roseburg - 13310-R

Form - 14055-R

Kott Inc.

3228 Moscoe Dr. Ottawa

14 Anderson Blvd. Uxbridge

Ontario

613-838-2775 /

905-642-4400

JOB INFORMATION

Builder

GREENPARK

Project

ZADORRA ESTATES OSHAWA, ON

Shipping

Sales Rep

RM

Designer

RCO

Plotted

July 18, 2023

Layout Name

VILLA 12-3

Job Path

C:\CUSTOMER\GREENPARK\ZADORRA ESTATES VILLA 12-3\VILLA 12-3\JH

DESIGN CRITERIA

Ground Floor

Design Method

LSD (Canada)

Building Code

NBCC 2015 / OBC 2012

Floor

Loads

Live

Dead

Deflection Joist

LL Span /

TL Span /

LL Cant 2U

TL Cant 2L

Deflection Flush Girder

LL Span /

TL Span /

LL Cant 2U

TL Cant 2L

Deflection Dropped Girder

LL Span /

TL Span /

LL Cant 2U

TL Cant 2L

Deflection Header

LL Span /

TL Span /

LL Cant 2U

TL Cant 2L

Decking

Decking

Thickness

OSB

Fastener

Nailed & Glued

Vibration

3228 Moscoe Dr. Ottawa

14 Anderson Blvd. Uxbridge

Ontario

613-838-2775 /

905-642-4400

KOTT

Installation Guide



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

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

Second Floor

ENG-M072-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1 2-3

Page 24 of 27



Legend	
WS	Web Stiffener
WS	In Hanger Label Denotes Web Stiffener
PS	Point Load Support
PS	Load from Above
PS	Wall
PS	Wall Opening
PS	Nonbord Rimboard Plus 1.125 X 11.875
PS	AJS 140 11.875
PS	Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875

Installation Guide



[Open your phone's camera and  
hover over this QR code to access it]

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

Second Floor									
LVL/LSL (Flush)									
Label	Description	Width	Depth	Qty	Piles	Pcs	Length		
F17	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	4	4	18-0-0		
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	14-0-0		
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	14-0-0		
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	10-0-0		
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	8-0-0		
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	4-0-0		
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	2-0-0		
Joist (Flush)									
Label	Description	Width	Depth	Qty	Piles	Pcs	Length		
J7	AJS 140	2.5	11.875			16	18-0-0		
J5	AJS 140	2.5	11.875			10	16-0-0		
J4	AJS 140	2.5	11.875			39	14-0-0		
J3	AJS 140	2.5	11.875			19	12-0-0		
J5	AJS 140	2.5	11.875			4	8-0-0		
Rim Board									
Label	Description	Width	Depth	Qty	Piles	Pcs	Length		
R1	Nonbord Rimboard Plus 1.125 X 11.875	1.125	11.875			14	12-0-0		
Blocking									
Label	Description	Width	Depth	Qty	Piles	Pcs	Length		
BLK1	AJS 140	2.5	11.875	LnFt		Varies	15-0-0		
Hanger									
					Beam/Girder	Supported Member			
Label	Pcs	Description	Skew	Slope	fasteners	fasteners			
H1	3	HUS1510			30 16d	10 16d			
H2	42	LF2511			12 10d	18x11 1/4WS			
H4	1	HGUS410			46 16d	16 16d			
Custom									
Label	Description	Width	Depth	Qty	Piles	Pcs	Length		
	6-3/4" Simpson SDW Screw					22			
Multi-Ply Fastening									
Second Floor									
F17-A									
Fasten all piles using 2 rows of SDW22634 at 24" o.c. except for regions covered by concentrated load fastening.									
Fasten at concentrated side load each side of concentrated load at 12-0-9 with 1 column 2 rows of SDW22634									
Fasten at concentrated side load each side of concentrated load at 13-0-9 with 1 column 2 rows of SDW22634									
1. All blocking to be cut from 12' joists									
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length									
3. Ends of joists to be laterally supported									
4. Packing of Steel beams and attachment by others									
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations									
6. Beams identified as "B" are dropped and supplied by others									
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls									
8. Load transfer blocks to be installed under all point loads									
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements									
10. Hangers and Fasteners to be installed as per manufacturer									
11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.									
12. Multi Ply beams with side loading to have all fasteners installed with the head on the side of the applied load.									
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown									
14. 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.									

Gypsum 1/2"

Nailed & Glued

OSB

5/8"

Thickness

Decking

TL Cant 2/L

LL Span /

Deflection Dropped Girder

TL Cant 2/L

LL Span /

TL Span /

LL Cant 2/L

TL Span /

LL Span /

Deflection Header

TL Cant 2/L

LL Span /

TL Span /

LL Cant 2/L

TL Cant 2/L

LL Span /

TL Span /

LL Cant 2/L

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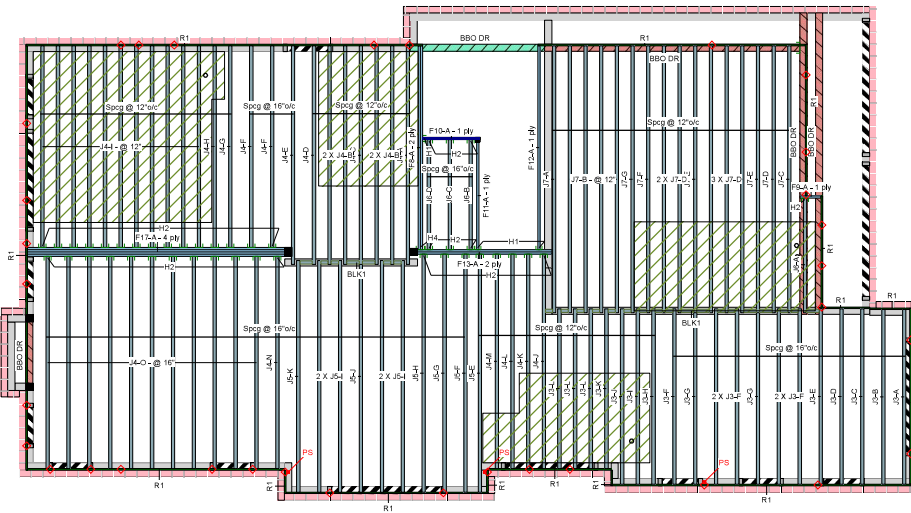
LL Cant 2/L

TL Cant 2/L

Second Floor

ENG-M072-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1 2-3

Page 25 of 37



Legend	
WS	Web Stiffener
W/S	In Hanger Label Denotes Web Stiffener
PS	Point Load Support
Load from Above	
Wall	
Wall Opening	
Norbord Rimboard Plus 1.125 X 11.875	
AJS 140 11.875	
Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875	
0 X 0 (Dropped)	

Installation Guide



[Open your phone's camera and  
hover over this QR code to access it]

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

Second Floor										JOB INFORMATION	
LVL/LSL (Flush)										Builder	
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			GREENPARK	
F17	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	4	4	18-0			Project	
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	14-0			Shipping	
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	14-0			ZADORRA ESTATES OSHAWA, ON	
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	10-0			Sales Rep	
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	8-0			RM	
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	4-0			Designer	
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875			1	2-0			Plotted	
										July 18, 2023	
Joist (Flush)										Layout Name	
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			VILLA 12-2	
J7	AJS 140	2.5	11.875			16	18-0			Job Path	
J5	AJS 140	2.5	11.875			10	16-0			C:\CUSTOMERS\GREENPARK\ZADORRA ESTATE VILLA 12-2\VILLA 12-2\WILLA 12-2\W	
J4	AJS 140	2.5	11.875			39	14-0			DESIGN CRITERIA	
J3	AJS 140	2.5	11.875			19	12-0			Second Floor	
J5	AJS 140	2.5	11.875			4	8-0			Design Method	
										LSD (Canada)	
Rim Board										Building Code	
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			NBCC 2015 / OBC 2012	
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875			14	12-0			Floor	
BLK1	AJS 140	2.5	11.875			Varies	15-0			Loads	
										Live	
										40	
										Dead	
										15	
Hanger										Deflection Joist	
										LL Span /	
										360	
										TL Span /	
										240	
										LL Cant. 2U	
										360	
										TL Cant. 2U	
										240	
Custom										Deflection Flush Girder	
Label	Description	Width	Depth	Qty	Piles	Pcs	Length			LL Span /	
										240	
										LL Span /	
										240	
										LL Cant. 2U	
										240	
										TL Cant. 2U	
										240	
Multi-Ply Fastening										Deflection Dropped Girder	
										LL Span /	
										360	
										TL Span /	
										240	
										LL Cant. 2U	
										360	
										TL Cant. 2U	
										240	
Second Floor										Deflection Header	
										LL Span /	
										360	
										TL Span /	
										240	
										LL Cant. 2U	
										360	
										TL Cant. 2U	
										240	
										Decking	
										OSB	
										Thickness	
										5/8"	
										Fastener	
										Nailed & Glued	
										Vibration	
										Ceiling:	
										Gypsum 1/2"	
Fasten at 12-0-9 with 1 column 2 rows of SDW22634 at 24" o.c. except for regions covered by concentrated load fastening.										CCMC References	
										Boise - 12472-R, 12787-R	
										LP - 12412-R, Roseburg - 13310-LR	
										Forex - 14055-R	
Fasten at 13-0-9 with 1 column 2 rows of SDW22634										Kott Inc.	
										3228 Moodie Dr, Ottawa	
										14 Anderson Blvd, Uxbridge	
										Ontario	
										613-838-2775 /	
										905-642-4400	
										KOTT	



ENG-M072-153-KTF-GREENPARK-ZADORRA ESTATES-VILLA 12-1 2-3

Page 18 of 37

Second Floor



1. All blocking to be cut from 12" joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
10. Hangers and Fasteners to be installed as per manufacturer
11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.
12. Multi Ply beams with side loading to have all fasteners installed with the head on the side of the applied load.
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown
14. 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.

Second Floor  
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
F17	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	4	4	18-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	14-0-0
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	1	1	14-0-0
F13	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	10-0-0
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	1	1	8-0-0
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	1	1	4-0-0
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	1	1	2-0-0

Joist (Flush)

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
J7	AJS 140	2.5	11.875	1	16	16	18-0-0
J5	AJS 140	2.5	11.875	1	10	10	16-0-0
J4	AJS 140	2.5	11.875	1	39	39	14-0-0
J8	AJS 140	2.5	11.875	1	15	15	12-0-0
J3	AJS 140	2.5	11.875	1	4	4	10-0-0
J6	AJS 140	2.5	11.875	1	5	5	8-0-0

Rim Board

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	1	14	14	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
BLK1	AJS 140	2.5	11.875	1	Varies	Varies	15-0-0

Hanger

Label	Pcs	Description	Skew	Slope	fasteners	Supported Member
H1	3	HUS1.81/10			30 16d	10 16d
H2	43	LP2511			12 10d	1 88x11/4WS
H4	1	HGUS410			46 16d	16 16d

Custom

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
C1	3-3/8" Simpson SDW Screw					22	

Multi-Ply Fastening

Second Floor

Label	Description	Width	Depth	Qty	Piles	Pcs	Length
F17-A							

Fasten all plies using 2 rows of SDW22634 at 24" o.c. except for regions covered by concentrated load fastening.

Fasten at concentrated side load each side of concentrated load at 12-0-9 with 1 column 2 rows of SDW22634

Fasten at concentrated side load each side of concentrated load at 13-0-9 with 1 column 2 rows of SDW22634

Legend

WS	Web Stiffener
WS	In Hanger Label Denotes Web Stiffener
PS	Point Load Support
PS	Load from Above
W	Wall
W	Wall Opening
W	Norbord Rimboard Plus 1.125 X 11.875
W	AJS 140 11.875
W	Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875

JOB INFORMATION

<b>Builder</b>	GREENPARK
<b>Project</b>	ZADORRA ESTATES OSHAWA, ON
<b>Sales Rep</b>	RM
<b>Designer</b>	CCO
<b>Plotted</b>	July 18, 2023
<b>Layout Name</b>	VILLA 12-3
<b>Job Path</b>	C:\CUSTOMERS\GREENPARK\ZADORRA ESTATES VILLA 12-3\VILLA 12-3\W12-3\W12-3.dwg

DESIGN CRITERIA

<b>Design Method</b>	LSO (Canada)
<b>Building Code</b>	NBCC 2015 / OBC 2012

Floor Loads

<b>Live</b>	40
<b>Dead</b>	15

Deflection Joist

LL Span / L	360
LL Span / U	240
LL Cant 2/L	360
LL Cant 2/U	240

Deflection Flush Girder

LL Span / L	360
LL Span / U	240
LL Cant 2/L	360
LL Cant 2/U	240

Deflection Dropped Girder

LL Span / L	360
LL Span / U	240
LL Cant 2/L	360
LL Cant 2/U	240

Decking

OSB	
Thickness	5/8"
Fastener	Nailed & Glued

Vibration

Ceiling:	Gypsum 1/2"
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CCMC References

Boise - 12472-R, 12787-R
LP - 12412-R, Roseburg - 13310-R
Forre - 14055-S

Kott Inc.

3228 Moodie Dr, Ottawa
14 Anderson Blvd, Uxbridge
Ontario

613-838-2775 / 805-642-4400
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Installation Guide



[Open your phone's camera and hover over this QR code to access it]

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