

19-06-00

		Products		
PlotID	Length	Product	Plies	Net Qty
J11DJ	20-00-00	11 7/8" NI-40x	2	8
J1	16-00-00	11 7/8" NI-40x	1	8
J2	14-00-00	11 7/8" NI-40x	1	2
J3	10-00-00	11 7/8" NI-40x	1	19
J4	4-00-00	11 7/8" NI-40x	1	3
J5	2-00-00	11 7/8" NI-40x	1	2
J6	20-00-00	11 7/8" NI-80	1	25
J7	18-00-00	11 7/8" NI-80	1	4
B5A	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B7A 🗸	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 🗸	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

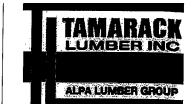
Connector Summary				
Qty	Manuf	Product		
3	H1	IUS2.56/11.88		
8	H1	IUS2.56/11.88		
4	H1	IUS2.56/11.88		
2	H1	IUS2.56/11.88		
1	H3	HGUS410		
2	H4	HUS1.81/10		
1	H5	HUC410		
4	H6	IUS3.56/11.88		

NOTES:

REFER TO THE NORDIC **INSTALLATION** GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. **MULTIPLE SQUASH BLOCKS REQ'D** UNDER CONCENTRATED LOADS SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND **FIELD CUT OPENINGS** SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6. LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2 DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: **FEB 2018**

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301 **ELEVATION: A&B&C**

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

STD AND ALT

DATE 11-1218

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKO DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDILLE 1 FORM MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

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DWG# TAM_861078H THROUGH DWG# TAM_861178H INCLUSIVE DATED_11718

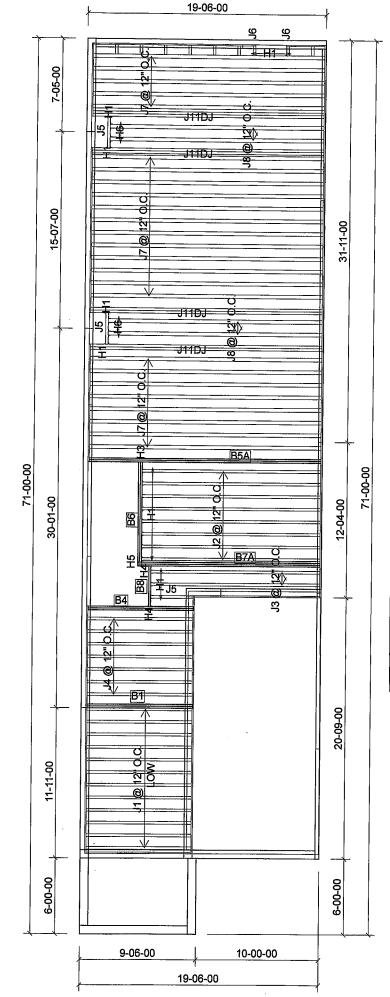
SEALED STRUCTURAL COMPONENTS ONLY: + & GOTT BH+BGOTTBH+BGOSTBH
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, THEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



	Products				
PlotID	Length	Product	Plies	Net Qty	
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J6	2-00-00	11 7/8" NI-40x	1	2	
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B5A	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
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B4 ^	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B6 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B8/	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1	

	Connector Summary				
Qty	Manuf	Product			
3	H1	IUS2.56/11.88			
8	Ĥ1	IUS2.56/11.88			
4	H1	IUS2.56/11.88			
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LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft2 TILED AREAS: 20 lb/ft₂

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FROM PLAN DATED: FEB-2018

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301 **ELEVATION: A&B&C**

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

SUNKEN FOYER

DATE_ 1/7218

BCIN: 26064; FIRM: 29991

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CAPACITY WITH RESPECT TO THE FLOOR STAIN LOT SPECIFIC SCHEDULE 1 FORM
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A CALLABLE

A CAL

DWG# TAM BE 1916 THROUGH DWG# TAM B61178 INCLUSIVE DATED 117218

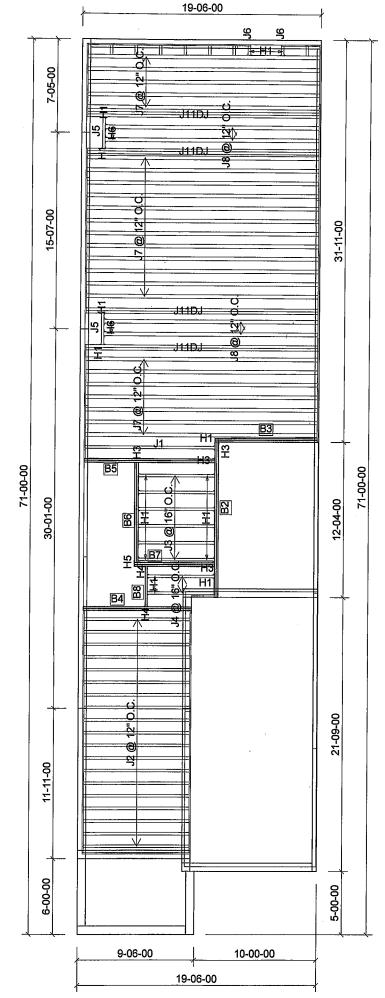
SEALED STRUCTURAL COMPONENTS ONLY: + BS 9B1BH+BGO1BH+BGO3BH
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOODJ-JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
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PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH
ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS
DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT. DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 FIRM: 29991 3098978

SEALED STRUCTURAL



Products					
PlotID	Length	Product	Plies	Net Qty	
J11DJ	20-00-00	11 7/8" NI-40x	2	8	
J1	12-00-00	11 7/8" NI-40x	1	1	
J2	10-00-00	11 7/8" NI-40x	1	19	
J3	8-00-00	11 7/8" NI-40x	1	6	
J4	6-00-00	11 7/8" NI-40x	1	2	
J5	4-00-00	11 7/8" NI-40x	1 .	2	
J6	2-00-00	11 7/8" NI-40x	1	2	
J7	20-00-00	11 7/8" NI-80	1	24	
J8	18-00-00	11 7/8" NI-80	1	4	
B2 /	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B5 _	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2 /	
B3 ^	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2 🗸	
B4 🔨	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B6 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B7 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B8/	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1 -	

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
4	H1	IUS2.56/11.88			
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2	H4	HUS1.81/10			
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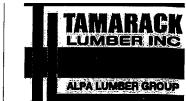
MOTES:

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LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2 DEAD LOAD: 20.0 lb/ft2 TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: **FEB 2018**

BUILDER: ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301 **ELEVATION: A&B&C**

LOT:

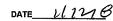
CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

SUNKEN LAUNDRY



BCIN: 26064; FIRM: 29991

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DWG# TAM 65991 CHEOUGH DWG# TAM 66051814 INCLUSIVE DATED 11718

SEALED STRUCTURAL COMPONENTS ONLY:
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF

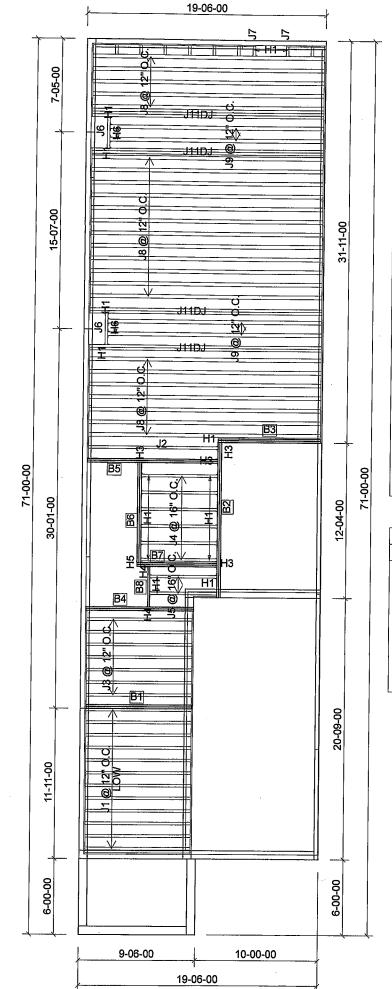
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309907B DWG # TAM SEALED STRUCTURAL COMPONENTS ONLY



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FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: A&B&C

LOT:

CITY: BRAMPTON

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DATE: 7/4/2018

1st FLOOR

SUNKEN FOYER AND LAUNDRY

DATE_1/748

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL. INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM BS 9818 IF THROUGH DWG# TAM 860518 IF INCLUSIVE DATED.

SEALED STRUCTURAL COMPONENTS ONLY:

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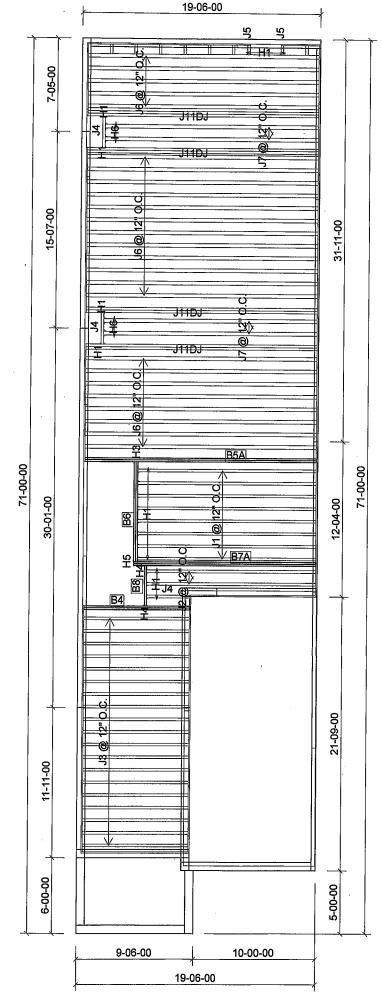
SEALED, THIRD PARTY LVIL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS, WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

3099/78 DWG # TAM_ BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL



Products				
PlotID	Length	Product	Plies	Net Qty
J11DJ	20-00-00	11 7/8" NI-40x	2	8
J1	16-00-00	11 7/8" NI-40x	1	8
J2	14-00-00	11 7/8" NI-40x	1	2
J3	10-00-00	11 7/8" NI-40x	1	19
J4	4-00-00	11 7/8" NI-40x	1	3
J5	2-00-00	11 7/8" NI-40x	1	2
J6	20-00-00	11 7/8" NI-80	1	25
J7	18-00-00	11 7/8" NI-80	1	4
B5A <	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B7A	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 C	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2 .	2
B6 🧲	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary				
Qty	Manuf	Product			
3	H1 .	IUS2.56/11.88			
8	H1	IUS2.56/11.88			
4	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
1	H3	HGUS410			
2.	H4	HUS1.81/10			
1	H5	HUC410			
4	H6	IUS3.56/11.88			

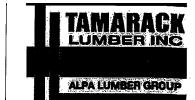
INU I EJ.

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LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft₂

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: **FEB 2018**

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: D

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

STD AND ALT

DATE_ 1/118

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS LAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

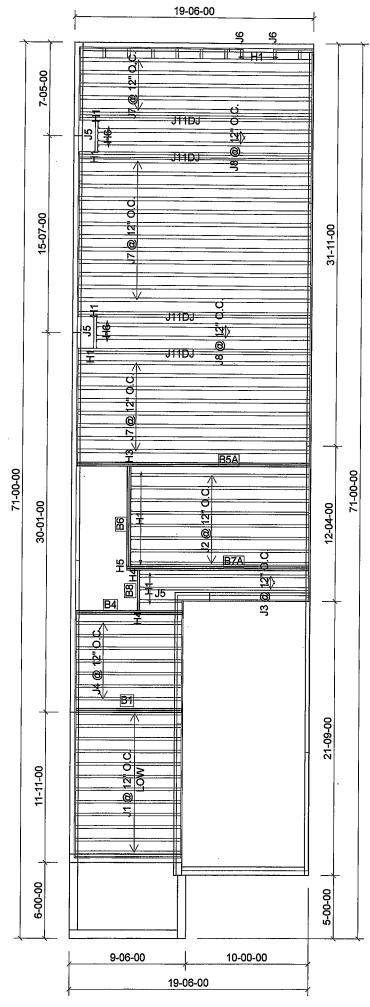
PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS, INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

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3099218

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM 26064 29991 COMPONENTS ONLY



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	10-00-00	9 1/2" NI-40x	1	12
J11DJ	20-00-00	11 7/8" NI-40x	2	8
J2	16-00-00	11 7/8" NI-40x	1	8
J3	14-00-00	11 7/8" NI-40x	1	2
J4	10-00-00	11 7/8" NI-40x	1	7
J5	4-00-00	11 7/8" NI-40x	1	3
J6	2-00-00	11 7/8" NI-40x	1	2
J7	20-00-00	11 7/8" NI-80	1	25
J8	18-00-00	11 7/8" NI-80	1	4
B5A~	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B7A 🖊	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B1 /	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 /	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 ~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

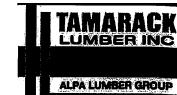
	Connector Summary				
Qty	Manuf	Product			
3	H1	IUS2.56/11.88			
8	H1	IUS2.56/11.88			
4	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
1	H3	HGUS410			
2	H4	HUS1.81/10			
1	H5	HUC410			
4	H6	IUS3.56/11.88			

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LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: FEB 2018

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: D

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

SUNKEN FOYER

DATE 1/2218

BCIN: 26064; FIRM: 29991

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CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

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DWG# TAM BE COTO THROUGH DWG# TAM BE WELLING BEALED TRUCTURAL COMPONENTS ONLY: + 8601-16H+8603-78H+8605-78H

SEALED STRUCTURAL COMPONENTS ONLY: + 8601-16H+8603-78H+8605-78H

SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEERS SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

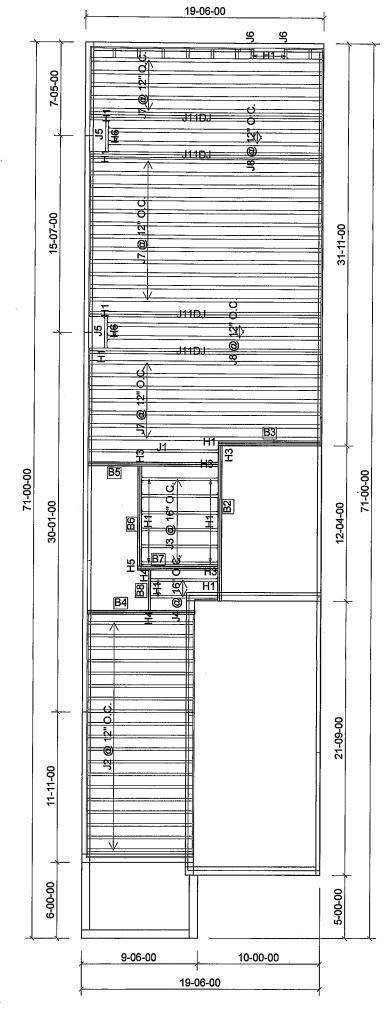
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AND BEAMS DEVIVE TO CONDATION CONFIDENTS. FOR PROVIDE RIVER AND ALEATION, SEE NORTH LITERATURE.
PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH
ABOVE BLOCKS, INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST, BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



	Products				
PlotID	Length	Product	Plies	Net Qty	
J11DJ	20-00-00	11 7/8" NI-40x	2	8	
J1	12-00-00	11 7/8" NI-40x	1	1	
J2	10-00-00	11 7/8" NI-40x	1	19	
J3	.8-00-00	11 7/8" NI-40x	1	6	
J4	6-00-00	11 7/8" NI-40x	1	2	
J5	4-00-00	11 7/8" NI-40x	1	2	
J6	2-00-00	11 7/8" NI-40x	1	2	
J7	20-00-00	11 7/8" NI-80	1	24	
J8	18-00-00	11 7/8" NI-80	1	4	
B2 ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B5 ~	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B3 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B4 <	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B6 (8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B7 (8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B8 /	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1 '	

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
4	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
4	H3	HGUS410			
2	H4	HUS1.81/10			
1	H5	HUC410			
4	H6	IUS3.56/11.88			

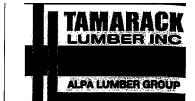
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LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft2 TILED AREAS: 20 lb/ft₂

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: FEB 2018

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: D

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

SUNKEN LAUNDRY

DATE 1/1218

BCIN: 26064; FIRM: 29991

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MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION OF BUILDING THE OWNER OFFICE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AND IN THE OVERPLANDED INSTALLATION OF THIS FLOOR ONCOTTAN HOST ALL PROPERTY.

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DWG# TAM 8599 THROUGH DWG# TAM 860518 THOLUSIVE DATED UN 218

SEALED STRUCTURAL COMPONENTS ONLY:
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PER
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED

PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

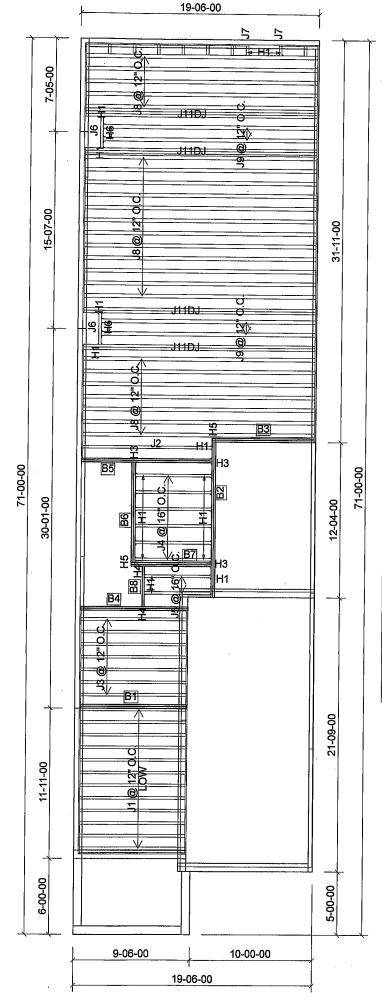
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I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

3099418 DWG # TAM 26064 29991

SEALED STRUCTURAL COMPONENTS ONLY



Products				
PlotID	Length	Product	Plies	Net Qty
J1	10-00-00	9 1/2" NI-40x	1	12
J11DJ	20-00-00	11.7/8" NI-40x	2	8
J2	12-00-00	11 7/8" NI-40x	1	1
J3	10-00-00	11 7/8" NI-40x	1	7
J4	8-00-00	11 7/8" NI-40x	1	6
J5	6-00-00	11 7/8" NI-40x	1	2
J6	4-00-00	11 7/8" NI-40x	1	2
J7	2-00-00	11 7/8" NI-40x	1	2
J8	20-00-00	11 7/8" NI-80	1	24
J9	18-00-00	11 7/8" NI-80	1	4
B2 <	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B1 ′	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 ~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B7/	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8/	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connecto	r Summary
Qty	Manuf	Product
2	H1	IUS2.56/11.88
14	H1	IUS2.56/11.88
4	H1	IUS2.56/11.88
2	H1	IUS2.56/11.88
3	НЗ	HGUS410
2	H4	HUS1.81/10
2	H5	HUC410
4	H6	IUS3.56/11.88

NOTES:

REFER TO THE NORDIC **INSTALLATION** GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND **FIELD CUT OPENINGS** SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.

LOADING: DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2 DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: **FEB 2018**

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301 **ELEVATION: D**

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

1st FLOOR

SUNKEN FOYER AND LAUNDRY

DATE 112218

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION. CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL. INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM OS9818H THROUGH DWG# TAM 860518 INCLUSIVE DATED 11/218

SEALED STRUCTURAL COMPONENTS ONLY:

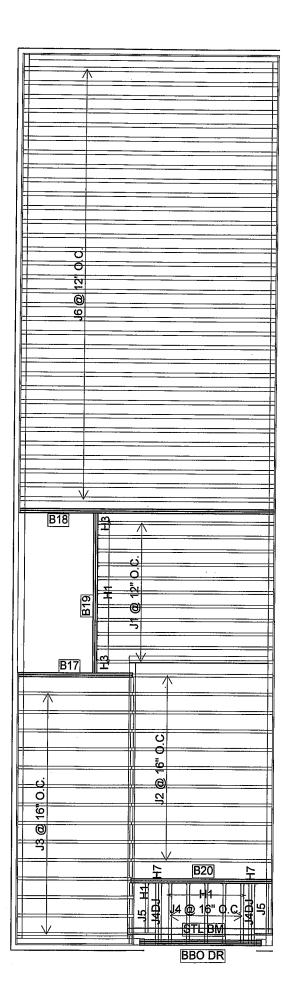
SEALED STRUCTURAL COMPONENTS ONLY:
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION
REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED
DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS,
AND BEAMS DOWN TO FOLINDATION COMPONENTS FOR BODE INSTALLATION.

DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL



	Products				
PlotID	Length	Product	Plies	Net Qty	
J1	14-00-00	11 7/8" NI-40x	1	11	
J2	12-00-00	11 7/8" NI-40x	1	11	
J3	10-00-00	11 7/8" NI-40x	1	14	
J4	6-00-00	11 7/8" NI-40x	1	5	
J4DJ	6-00-00	11 7/8" NI-40x	2	4	
J5	4-00-00	11 7/8" NI-40x	1	2	
J6	20-00-00	11 7/8" NI-80	1	32	
B18 ^	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B19 ′	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B20 ⁻	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	
B17/	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	

·	Connector Summary				
Qty Manuf Product					
17	H1	IUS2.56/11.88			
2	H3	HGUS410			
2	H7	HU312-2			

NOTES:

REFER TO THE NORDIC **INSTALLATION** GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. **MULTIPLE SQUASH BLOCKS REQ'D** UNDER CONCENTRATED LOADS SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL

APPLICATION AS PER O.B.C. 9.30.6.



FROM PLAN DATED: FEB-2018

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: A LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

2nd FLOOR

DATE_ 1/2218

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULLE 1 FORM MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL ALD IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING FINGINEER OF THIS ELOOP SYSTEM ARE NOT DESCRIVED FOR AUTHORITY OF THE SUPPLIER AND SEALING FINGINEER OF THIS ELOOP. ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM BEOGN THROUGH DWG# TAM BESSEL HICLUSIVE DATED 11218

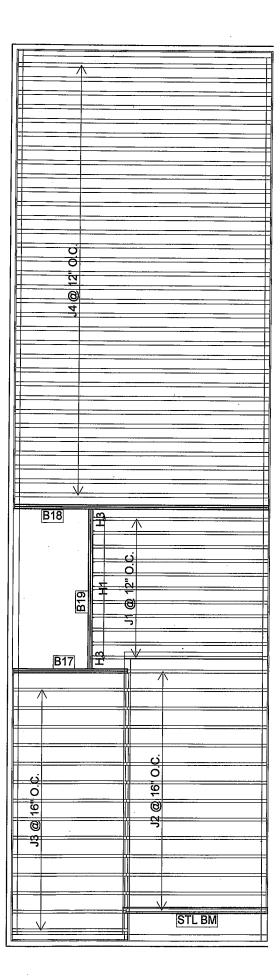
SEALED STRUCTURAL COMPONENTS ONLY:
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION
REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED
DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS,
AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE.
PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS. MATCHING SUPPORTED WALL WIDTH PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS, INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

309967B

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



Products				
PlotID	Length	Product	Plies	Net Qty
J1	14-00-00	11 7/8" NI-40x	1	11
J2	12-00-00	11 7/8" NI-40x	1	14
J3	10-00-00	11 7/8" NI-40x	1	14
J4	20-00-00	11 7/8" NI-80	1	32
B18 1	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17 ´	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty Manuf Product					
11	H1	IUS2.56/11.88			
2	H3	HGUS410			

NOIES:

REFER TO THE **NORDIC INSTALLATION** GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. **MULTIPLE SQUASH BLOCKS** REQ'D UNDER CONCENTRATED LOADS SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE

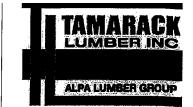
FIGURE 7 TABLES 1 & 2 OF THE

INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft2

SUBFLOOR: 5/8" GLUE AND NAIL



FROM PLAN DATED: FEB 2018

BUILDER:

ROYAL PINE HOMES

SITE:

FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: M D **DESIGNER: AJ REVISION:**

DATE: 7/4/2018

2nd FLOOR

DATE 1.1.248

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AND IN THE OVERPALL PROPERED INSTALLATION OF THE PROPERTY.

WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 860 BT THROUGH DWG# TAM B60818 HICLUSIVE DATED 11118

SEALED STRUCTURAL COMPONENTS ONLY:
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PER JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION

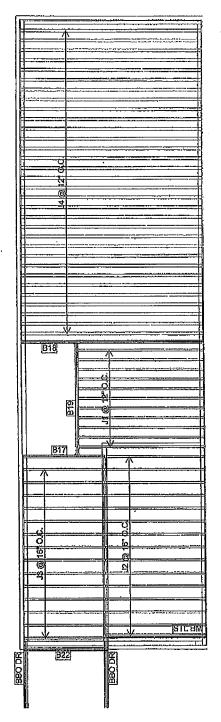
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR Z X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16□ DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

30997*18*

26064 29991 SEALED STRUCTURAL COMPONENTS ONLY



Products				
PlotID	Length	Product	Plies	Net Qty
J1	14-00-00	11 7/8" NI-40x	1	11
J2	12-00-00	11 7/8" NI-40x	1	15
J3	10-00-00	11 7/8" NI-40x	1	14
J4	20-00-00	11 7/8" NI-80	1	32
B18	20-00-00	1-3/4" x 11-7/8" VERSA-LAM@ 2,0 3100 SP	2	2
B19	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B22	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2,0 3100 SP	2	2

	Connector Summary				
Qty	Qty Manuf Product				
11	H1	IUS2.56/11.88			
2	H3	HGUS410			

FIRM BCIN 28103 DESIGNER BCIN 23991



FROM PLAN DATED:

BUILDER: ROYAL PINE HOMES

SITE: FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: M D DESIGNER: AJ REVISION:

NOTES:

REFER TO THE NORDIC INSTALLATION **GUIDE** FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS, MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS, SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS, SEE FIGURE 7 TABLES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD **CUT OPENINGS** SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6

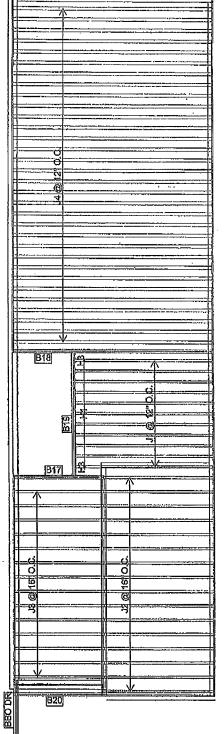
LOADING:

DESIGN LOADS: L/480,000 LIVE LOAD: 40,0 lb/ft² DEAD LOAD: 20,0 lb/ff

SUBFLOOR: 5/8" GLUED AND NAILED

DATE: 2019-04-04

2nd FLOOR



Products				
PlotID	Length	Product	Plies	Net Qty
J1	14-00-00	11 7/8" NI-40x	1	11
J2	12-00-00	11 7/8" NI-40x ·	1	16
J3	10-00-00	11 7/8" NI-40x	1	14
J4	20-00-00	11 7/8" NJ-80	1	32
B18	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2 ·	2
B20	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2,0 3100 SP	2	2

	Connector Summary				
Qty Manuf Product					
11	H1	IUS2.56/11.88			
2	H3	HGUS410			

FIRM BCIN 28103 DESIGNER BCIN 23991



FROM PLAN DATED:

BUILDER: ROYAL PINE HOMES

SITE: FORESTSIDE ESTATES

MODEL: UNIT 2301

ELEVATION: D

LOT:

CITY: BRAMPTON

SALESMAN: M D DESIGNER: AJ REVISION:

NOTES

REFER TO THE NORDIC INSTALLATION
GUIDE FOR PROPER STORAGE AND
INSTALLATION. SQUASH BLOCKS OF 2x4,
2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR
UNIFORM LOAD BEARING WALLS, MULTIPLE
SQUASH BLOCKS REQ'D UNDER
CONCENTRATED LOADS. SEE FIGURE 1.
CANTILEVERED JOISTS INCLUDING CANT'
OVER BRICK REQ. I-JOIST BLOCKING ALONG
BEARING AND RIMBOARD CLOSURE AT
ENDS. SEE FIGURE 7 TABLES 4 & 5 FOR
REINFORCEMENT REQUIREMENTS. FOR
HOLES INCLUDING DUCT CHASE AND FIELD
CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2
OF THE INSTALLATION GUIDE, CERAMIC TILE
APPLICATION AS PER O.B.C. 9.30.6

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/fl² DEAD LOAD: 20.0 lb/ft ²

SUBFLOOR: 5/8" GLUED AND NAILED

DATE: 2019-04-04

2nd FLOOR

Minimum Distance from Inside Face of Any Support to Centre of Hole (ft - in.) Round Hole Diameter (in.)

10'-0 10'-3" 8'-9"

i. The above table is based on the I-joists being used at their maximum spans. The minimum distance as given above may be reduced

2x duct chase length

or hole dian

6'-6" 7'-9" ---7'-0" 8'-4" ---8'-10" 10'-0" ---10'-0" 11'-2" ---

6-1/4 7 8 8-5/8 9 10 10-3/4 11 12 12-3/4

(1d)

Flange Width

2-1/2"

3-1/2"

(1k)



FSC www.fsc.org

OSB 7/14"-> OSB 7/16 NI-20 1950f MSR 2100f MSR 2400f MSR NPG Lumber S-P-F No.2 1950f MSR 2100f MSR 33 pieces 33 pieces 23 pieces 23 pieces per unit

illustrated in Figure 7.

Refer to the Installation Guide for Residential Floors for additional information. CCMC EVALUATION REPORT 13032-R

WEB HOLE SPECIFICATIONS

9-1/2"

11-7/8

FIGURE 7

NI-70

NI-60 NI-70 NI-80

FIELD-CUT HOLE LOCATOR

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS

- 1. The distance between the inside edge of the support and the centreline of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
- I-joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
 Whenever possible, field-cut holes should be centred on the middle of the web.
- 4. The maximum size hole or the maximum depth of a duct chase opening that can be cut into an I-joist web shall equal the clear distance between the flanges of the Ligist minus 1/4 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole or opening and the adjacent I-joist flange.

LOCATION OF CIRCULAR HOLES IN JOIST WEBS

2'-10" 4'-3" 3'-0" 4'-4" 4'-0" 5'-4" 4'-9" 6'-3"

3'-4" 4-9" 6'-3" 3'-6" 5-0" 6'-6" 0'-8" 1'-0" 2'-4" 0'-8" 1'-3" 2'-8" 1'-8" 3'-0" 4'-3" 2'-10" 4'-2" 5'-4" 2'-10" 4'-2" 5'-6" 0'-8" 1'-5" 3'-2" 0'-8" 0'-9" 2'-5" 0'-8" 0'-9" 2'-5" 0'-8" 0'-8" 1'-0"

. Above table may be used for 1-joist spacing of 24 inches on centre or less.

Hole location distance is measured from inside face of supports to centre of hole.

Distances in this chart are based on uniformly loaded joists.

Simple or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 40 psf

5'-8" 6'-0" 7'-0" 8'-0"

8-0" 8-4" ---8-2" 8-8" --3-8" 4'-0" 5'-0"
4'-0" 4'-4" 5'-5"
5-9" 6'-0" 7'-3"
6'-9" 7'-2" 8'-4"
7'-0" 7'-5" 8'-6"
4'-10" 5'-4" 6'-9"
2'-4" 2'-9" 3'-9"
4'-4" 4'-9" 6'-3"

- 5. The sides of square holes or longest sides of rectangular holes should not exceed 3/4 of the diameter of the maximum round hole permitted at that location.
- 6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the longest rectangular hole or duct chase opening) and each hole and duct chase opening shall be sized and located in compliance with the requirements of Tables 1 and 2, respectively.

 7. A knockout is **not** considered a hole, may be utilized anywhere it occurs, and may be
- ignored for purposes of calculating minimum distances between holes and/or duct chase openings.
- 8 Holes measuring 1-1/2 inches or smaller are permitted anywhere in a cantilevered section of a joist. Holes of greater size may be permitted subject to verification.
- 9 A 1-1/2 inch hale or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.

 10. All holes and duct chase openings shall be cut in a workman-like

NI-80

- Limit three maximum size holes per span, of which one may be
- a duct chase opening.

 12. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

DUCT CHASE OPENING SIZES AND LOCATIONS

Simple Span Only

		Minimum distance from inside face of supports to centre of opening (ft - in.)								
Joist Depth	Joist Series			_	Duct Ch	ase Leng	th (in.)			
		8	10	12	14	16	18	20	22	24
	NI-20	4'-1"	4'-5"	4'-10"	5'-4"	5'-8"	6'-1"	6'-6"	7'-1"	7'-5"
	NI-40x	5'-3"	5'-8"	6'-0"	6'-5"	6'-10"	7'-3"	7'-8"	8'-2"	8'-6"
9-1/2"	NI-60	5'-4"	5'-9"	6'-2"	6'-7"	7'-1"	7'-5"	8'-0"	8'-3"	8'-9"
·	NI-70	5'-1"	5'-5"	5'-10"	6'-3"	6'-7"	7'-1"	7'-6"	8'-1"	8'-4"
	NI-80	5'-3"	5'-8"	6'-0"	6'-5"	6'-10"	7'-3"	7'-8"	8'-2"	8'-6"
	NI-20	5'-9"	6'-2"	6'-6"	7'-1"	7'-5"	7'-9"	8'-3"	8'-9"	9'-4"
	NI-40x	6'-8"	7'-2"	7'-6"	8'-1"	8'-6"	9'-1"	9'-6"	10'-1"	10'-9"
	NI-60	7'-3"	7'-8"	8'-0"	8'-6"	9'-0"	9'-3"	9'-9"	10'-3"	11'-0"
11-7/8"	NI-70	7'-1"	7'-4"	7'-9"	8'-3"	8'-7"	9'-1"	9'-6"	10'-1"	10'-4"
	NI-80	7'-2"	7'-7"	8'-0"	8'-5"	8'-10"	9'-3"	9'-8"	10'-2"	10'-8"
	NI-90	7'-6"	7'-11"	8'-4"	8'-9"	9'-2"	9'-7"	10'-1"	10'-7"	10'-11"
	NI-90x	7'-7"	8'-1"	8'-5"	8'-10"	9'-4"	9'-8"	10'-2"	10'-8"	11'-2"
	NI-40x	8'-1"	8'-7"	9'-0"	9'-6"	10'-1"	10'-7"	11'-2"	12'-0"	12'-8"
	NI-60	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	11'-1"	11'-6"	13'-3"	13'-0"
14"	NI-70	8'-7"	9'-1"	9'-5"	9'-10"	10'-4"	10'-8"	11'-2"	11'-7"	12'-3"
14	NI-80	9'-0"	9'-3"	9'-9"	10'-1"	10'-7"	11'-1"	11'-6"	12'-1"	12'-6"
	NI-90	9'-2"	9'-8"	10'-0"	10'-6"	10'-11"		11'-9"	12'-4"	12'-11"
	NI-90x	9'-4"	9'-9"	10'-3"	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-2"
	NI-60	10'-3"	10'-8"	11'-2"	11'-6"	12'-1"	12'-6"	13'-2"	14'-1"	14'-10"
	NI-70	10'-1"	10'-5"	11'-0"	11'-4"		12'-3"	12'-8"	13'-3"	14'-0"
16"	NI-80	10'-4"	10'-9"	11'-3"	11'-9"	12'-1"	12'-7"	13'-1"	13'-8"	14'-4"
	NI-90	10'-9"	11'-2"	11'-8"	12'-0"	12'-6"	13'-0"	13'-6"	14'-2"	14'-10"
	NI-90x	11'-1"	11'-5"	11'-10"	12'-4"	12'-10"	' 13'-2"	13'-9"	14'-4"	15'-2"

- Above table may be used for I-joist spacing of 24 inches on centre or less.

Above table may be used for 1-joist spacing of 24 inches on centre or less. Duct chase opening location distance is measured from inside face of supports to centre of opening. The above table is based on simple-span joists only. For other applications, contact your local distributor. Distances are based on uniformly loaded floor joists that meet the span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/480. The above table is based on the 1-joists being used at their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

1 - 1 - 4	1-1-1	Minimum distance from inside face of supports to centre of opening (ft - in.)								
Joist Depth	Joist Series	Duct Chase Length (in.)								
Бории	00,100	8	10	12	14	16	18	20	22	24
	NI-20	4'-1"	4'-5"	4'-10"	5'-4"	5'-8"	6'-1"	6'-6"	7'-1"	7'-5"
	NI-40x	5'-3"	5'-8"	6'-0"	6'-5"	6'-10"	7'-3"	7'-8"	8'-2"	8'-6"
9-1/2"	NI-60	5'-4"	5'-9"	6'-2"	6'-7"	7'-1"	7'-5"	8'-0"	8'-3"	8'-9"
, -	NI-70	5'-1"	5'-5"	5'-10"	6'-3"	6'-7"	7'-1"	7'-6"	8'-1"	8'-4"
	NI-80	5'-3"	5'-8"	6'-0"	6'-5"	6'-10"	7'-3"	7'-8"	8'-2"	8'-6"
	NI-20	5'-9"	6'-2"	6'-6"	7'-1"	7'-5"	7'-9"	8'-3"	8'-9"	9'-4"
	NI-40x	6'-8"	7'-2"	7'-6"	8'-1"	8'-6"	9'-1"	9'-6"	10'-1"	10'-9"
	NI-60	7'-3"	7'-8"	8'-0"	8'-6"	9'-0"	9'-3"	9'-9"	10'-3"	11'-0"
11-7/8"	NI-70	7'-1"	7'-4"	7'-9"	8'-3"	8'-7"	9'-1"	9'-6"	10'-1"	10'-4"
	NI-80	7'-2"	7'-7"	8'-0"	8'-5"	8'-10"	9'-3"	9'-8"	10'-2"	10'-8"
	NI-90	7'-6"	7'-11"	8'-4"	8'-9"	9'-2"	9'-7"	10'-1"	10'-7"	10'-11"
	NI-90x	7'-7"	8'-1"	8'-5"	8'-10"	9'-4"	9'-8"	10'-2"	10'-8"	11'-2"
	NI-40x	8'-1"	8'-7"	9'-0"	9'-6"	10'-1"	10'-7"	11'-2"	12'-0"	12'-8"
	NI-60	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	11'-1"	11'-6"	13'-3"	13'-0"
14"	NI-70	8'-7"	9'-1"	9'-5"	9'-10"	10'-4"	10'-8"	11'-2"	11'-7"	12'-3"
14"	NI-80	9'-0"	9'-3"	9'-9"	10'-1"	10'-7"	11'-1"	11'-6"	12'-1"	12'-6"
	NI-90	9'-2"	9'-8"	10'-0"	10'-6"	10'-11'	' 11'-5"	11'-9"	12'-4"	12'-11"
	NI-90x	9'-4"	9'-9"	10'-3"	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-2"
	NI-60	10'-3"	10'-8"	11'-2"	11'-6"	12'-1"	12'-6"	13'-2"	14'-1"	14'-10"
	NI-70	10'-1"	10'-5"	11'-0"	11'-4"	11'-10'	' 12'-3"	12'-8"	13'-3"	14'-0"
16"	NI-80	10'-4"	10'-9"	11'-3"	11'-9"	12'-1"	12'-7"	13'-1"	13'-8"	14'-4"
	NI-90	10'-9"	11'-2"	11'-8"	12'-0"	12'-6"	13'-0"	13'-6"	14-2"	14'-10"
	NI-90x	11'-1"	11'-5"	11'-10"	12'-4"	12'-10'	' 13'-2"	13'-9"	14'-4"	15'-2"

Knockouts are prescored holes provided for the contractor's convenience to install electrical or small plumbing lines. They are 1-1/2 inches in diameter, and are spaced 15 inches on centre along the length of the I-joist. Where possible, it is preferable to use knockouts instead of field-cut holes Never drill, cut or notch the flange, or over-cut the web Holes in webs should be cut with a sharp saw

For rectangular holes, avoid over-cutting the corners, as this can cause unnecessary stress concentrations. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1-inch diameter hole ners and then making the cuts between the holes is another good method to minimize damage to the I-joist.

.....

WEB STIFFENERS

1p FILLER BLOCK REQUIREMENTS

-1/8" to 1/4" gap between top flange

FOR DOUBLE I-JOIST CONSTRUCTION

RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with factored reactions greater than shown in the I-joist properties table found of the I-joist Construction Guide (C101). The gap between the stiffener and the flange is at
- A bearing stiffener is required when the 1-joist is supported in a hanger and the sides of the hanger do not extend up to, and support, the top flange. The gap between the stiffener and flange is at the top.
- A load stiffener is required at locations where a factored concentrated load greater than 2,370 lbs is applied to the top flange between supports, or in the case of a contilever, anywhere between the contilever tip and the support. These values are for standard term load duration, and may be adjusted for other load durations as permitted by the code. The gap between the stiffener and the flange is at the bottom.

FIGURE 2

WEB STIFFENER INSTALLATION DETAILS

11-7/8"

14" 16"

Net Depth

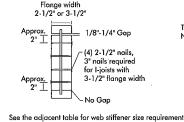
7-1/4 11-7/8* 14" | 1<u>6"</u>

1-1/2"

3-1/2" x

1-1/2"

3-1/2" x



CONCENTRATED LOAD

(Bearina stiffener)

END REARING

STIFFENER SIZE REQUIREMENTS

Flange Width	Web Stiffener Size Each Side of Web
2-1/2"	1" x 2-5/16" minimum width
3-1/2"	1-1/2" x 2-5/16" minimum width

SAFETY AND CONSTRUCTION PRECAUTIONS

rule 12



Do not walk on 1-joists until fully fastened and braced, or



Never stack building materials sheathed, do not over-stress I-joists with concentrated loads WARNING: I-joists are not stable until completely installed, and will not carry any load until fully braced and sheathed.

AVOID ACCIDENTS BY FOLLOWING THESE IMPORTANT GUIDELINES:

Maintain minimum 1/8" space between top and

bottom flange — all duct chase openings and holes

- Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and/or cross-bridging at joist ends.
 When I-joists are applied continuous over interior supports and a load-bearing wall is planned at that location, blocking will be required at the interior support.
- 2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover

Duct chase opening (see Table 2 for minimum

- or buckling.

 ** Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on centre, and must be secured with a minimum of two 2-1/2" nails fastened to the top surface of each 1-joist. Nail the bracing to a lateral restraint at the end of each bay. Lap ends of adjoining bracing over at least two 1-joists.

 **Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of 1-joists at the end of the bay.
- For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bridging. 4. Install and fully nail permanent sheathing to each l-joist before placing loads on the floor system. Then, stack building
- Never install a damaged I-joist.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable hole sizes and localions, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.

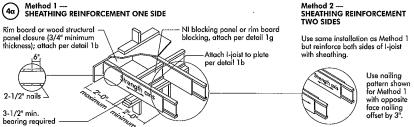


PRODUCT WARRANTY

Chantiers Chibougamau guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defects in material and workmanship.

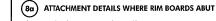
 $oldsymbol{F}$ urthermore, Chantiers Chibougamau warrants that our products, en utilized in accordance with our handling and installation instruction will meet or exceed our specifications for the lifetime of the structure.

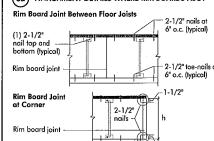
CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET



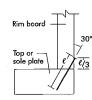
NOTE: Canadian softwood plywood sheathing or equivalent (minimum thickness 3/4") required on sides of joist. Depth shall match the full height of the joist. Nail with 2-1/2" nails at 6" o.c., top and bottom flange. Install with face grain horizontal. Attach I-joist to plate at all supports per detail 1b. Verify reinforced I-joist capacity.

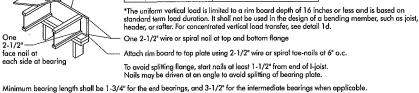
RIM BOARD INSTALLATION DETAILS











face nail at

Its shall not be used in the design of a bending member, such as joist, header, or rafter. For concentrated vertical load transfer, see detail 1d.

(1e)

Filler block

Multiple I-joist header with full depth filler

block shown Nordic Lam or SCL headers

may also be used. Verify double 1-jois

Backer block attached per

detail 1h. Nail with twelve 3" nails, clinch when possible.

Install hanger pe

manufacturer's

concentrated loads

- 2-1/2" nails at 6" o.c. to top plate (when used for lateral

Maximum Factored

Vertical Load per Pair

of Sauash Blocks (lbs)

8,500

5,500

1-1/8" Rim Board Plus 4,300 6,600

Minimum Depth**

5-1/2"

7-1/4"

Maximum support

and bottom of top 1-joist flange.

Verify double I-joist capacity

capacity = 1,620 lbs.

1. Support back of I-joist web during nailing to prevent

damage to web/flange connection.

2. Leave a 1/8 to 1/4-inch gap between top of filler block

Nail joists together with two rows of 3" nails at 12 inches o.c. (clinched when possible) on each side of the double

I-joist. Total of four nails per foot required. If nails can be

The maximum factored load that may be applied to one

side of the double joist using this detail is 860 lbf/ft.

3. Filler block is required between joists for full length

clinched, only two nails per foot are required.

Provide lateral bracing per detail 1a or 1b

Vertical Load* (plf)

3.300

The uniform vertical load is limited to a joist depth of 16

inches or less and is based on standard term load duration

Pair of Sauash

NI Joists

(1h) Backer block (use if hanger load exceeds 360 lbs). Before installing a backer block to a double I-joist, drive three additional 31 nails through at the control of the property of the pr

BACKER BLOCKS (Blocks must be long enough to permit required nailing without splitting)

wood structural panels conforming to CAN/CSA-O325 or CAN/CSA-O437 Standard.

* For face-mount hangers use net joist depth minus 3-1/4" for joists with 1-1/2" thick flanges

Material Thickness Required*

1-1/2"

For 2" thick flanges use net depth minus 4-1/4".

2x plate flush with inside face of wall

or beam, 1/8" overhang allowed

NOTE: Unless hanger

sides laterally support

Top-mount hange

the top flange, bearing

installed per manufacturer's

Offset nails from

opposite face by 6"

double I-joist, drive three additional 3" nails through the webs and filler block where the backer block will fit. Clinch. Install backer tight to top flange. Use twelve 3" nails, clinched

when possible Maximum factored resistance for hanger for this detail = 1.620 lbs.

Minimum grade for backer block material shall be S-P-F No. 2 or better for solid sawn lumber and

NI or rim board blocking

panel per detail 1a

bearing below blocks per area of blocks elow to pos Top- or face-mount Double I-joist header

recommendations. Verify double I-joist capacity to suppor

per detail 1b 2-1/2" nails at 6" o.c.

NOTE: Unless hanaer

sides laterally suppor

the top flange, bearing

stiffeners shall be use

Backer block required

(both sides for face-

mount hangers)

Do not bevel-cu

joist beyond

-Attach I-jois

of wall

NOTE: Blocking required at

shown for clarity.

Filler Block Size

2-1/8" x 6"

3" x 6"

3" x 10" 3" x 12"

3" x 7

2-1/8" x 8" 2-1/8" x 10" 2-1/8" x 12"

oad bearing wall above shall alian vertically with the bearing below. Other conditions, such as offset bearing walls, are not covered by this detail. Blocking required over all interior supports under load-bearing walls or when floor joists are not continuous over support

- NI blocking panel per detail 1a

8.090

(1) Nordic Lam or Structural Composite Lumber (SCL) For nailing schedules for multiple beams, see the manufacturer's recommendations. Top- or face-mount hanger installed per manufacturer's

NOTE: Unless hanger sides laterally support the top flange,

(1r)



on opposite side. NI blocking panel

OPTIONAL: Minimum 1x4 inch strap applied to underside of joist at blocking line or 1/2 inch minimum gypsum ceiling attached to underside of joists.

One 2-1/2" nail at top and bottom flange (1s) board 2-1/2"

— 2x4 min, (1/8" gap minimum) Two 2-1/2" nails from each web to lumber piece One 2-1/2" nail one side only NOTES:

In some local codes, blocking is prescriptively required in the first joist space (or first and second joist space) next to the starter joist. Where required, see local code requirements for spacing of the blocking.

All nails are common spiral in this detail.

the above deta are assumed to be common wire nails unless otherwise noted. 3" (0.122" dia.) common spiral nails may be substituted for 2-1/2" (0.128" dia.) ommon wire nails d to be Spruce-Pine-Fir No. 2 or better. Individua ents not sho

Use one form for each individual who review	ws and takes re	sponsibility for design acti	vities with respect to	the project.				
A. Project Information		Application						
Building number, street name			Unit no.	Lot/con.				
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other des	cription					
B. Individual who reviews and take	s responsibili	ity for design activities	S					
Name	ter til til state fra til state fra	Firm						
SAM KATSOULAKOS		MICRO CITY EN	GINEERING SERVI	CES INC.				
Street address R.R #1, PO BOX 61	·		Unit no.	Lot/con.				
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail					
Telephone number	Fax number		Cell number					
(519) 287-2242 Business	(519) 287-575							
C. Design activities undertaken by Division C		Control of the Contro						
☐ House ☐ Small Buildings		- House	⊠ Building S					
☐ Small Buildings ☐ Large Buildings		g Services on, Lighting and Power	☐ Plumbing	– House – All Buildings				
☐ Complex Buildings		otection		ewage Systems				
Description of designer's work ROYAL PIN	E HOMES - FO	DREST SIDE - MODEL: U	NIT 2301 – ELEV. A	A OR B OR C				
1ST FLOOR – STD AND ALT (SCHEDULE REVIEW PRE-ENGINEERED FLOOR SYS TAMARACK ROOF TRUSSES INC. (SEE D	1ST FLOOR – STD AND ALT (SCHEDULE IS NOT ISSUED AS LOT SPECIFIC) REVIEW PRE-ENGINEERED FLOOR SYSTEM COMPONENT DRAWINGS AND LAYOUT PLACEMENT PLAN SUPPLIED BY TAMARACK ROOF TRUSSES INC. (SEE DWG #TAM30988-18 DATED 11-12-18). SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFED BY QUALIFIED BUILDING DESIGNER.							
D. Declaration of Designer			1251110 520.0112					
			•					
I, <u>SAM KATSO</u>		eclare that (choose one as	appropriate):					
(print name) 国 I review and take responsibili C, of the Building Code. I ame	ty for the design	n work on behalf of a firm refirm is registered, in the	egistered under sub appropriate classes	section 3.2.4.of Division /categories.				
Individual BCIN:2606	34							
Firm BCIN: 2999	11							
1 IIII BOIN. <u>2999</u>	· · · · · · · · · · · · · · · · · · ·							
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:	y for the design sion C, of the B	and am qualified in the apuilding Code.	propriate category a	as an "other designer"				
Basis for exemption from registration: The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:								
I certify that:	ala a disda 25 Co	to the book of the first						
 The information contained in this s I have submitted this application w 								
	•		0					
Date	112018	Signature of Designer	K					

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM30988 -195 DWG #TAM 3/000-1758

Use one form for each individual who review	ws and takes re			the project.
A. Project Information Building number, street name		Application i	Unit no.	Lot/con.
		_	Onit 110.	2000011.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other desc	ription	
B. Individual who reviews and take	s responsibili	ty for design activities		
Name	and the tree and an exercise the party is a second of the	Firm	WIEEDWA 0EDW	
SAM KATSOULAKOS Street address		MICRO CITY ENG	Unit no.	Lot/con.
R.R #1, PO BOX 61			Otherio.	Louison.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by	L '		 Ruilding Code Ta	ble 3.5.2.4 of
Division C		in Coulon D. I	anung Joac i	
☐ House	☐ HVAC	– House	⊠ Building 9	Structural
☐ Small Buildings		g Services	☐ Plumbing	
☐ Large Buildings		on, Lighting and Power		- All Buildings
☐ Complex Buildings	☐ Fire Pr			ewage Systems
Description of designer's work ROYAL PIN	IE HOMES - FO	DREST SIDE - MODEL: UI	NIT 2301 – ELEV. A	A OR B OR C
1ST FLOOR - SUNKEN FOYER (SCHEDUREVIEW PRE-ENGINEERED FLOOR SYS			OUT DI ACEMENI	T PLAN SLIPPLIED BY
TAMARACK ROOF TRUSSES INC. (SEE I			OOTTENOLINEN	T L W COTT LILD DT
SUPPORTING STRUCTURE TO BE REVIE			LDING DESIGNER	. .
D. Declaration of Designer				
I, <u>SAM KATSC</u>	ULAKOS de	eclare that (choose one as	appropriate):	
(print nam		(
☑ I review and take responsibili	ty for the design	n work on behalf of a firm re	egistered under sub	section 3.2.4.of Division
C, of the Building Code. I am	qualified, and th	e firm is registered, in the a	appropriate classes	/categories.
Individual BCIN: <u>2606</u>	64			
Firm BCIN: <u>2999</u>	91		,	
		and are muchifical in the area		an an "athan daalaman"
☐ I review and take responsibilit under subsection 3.2.5.of Divi			propriate category	as an other designer
Individual BCIN:	ision C, or the D	uliding Code.		
				<i>:</i>
Basis for exemption from				
☐ The design work is exempt from	•	•		•
· · · · · · · · · · · · · · · · · · ·	registration and	d qualification:		
I certify that:				
 The information contained in this s 			e.	
2. I have submitted this application w	ith the knowled	ge and consent of the firm.		
			0	
Date	11,2018	Signature of Designer		

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the
 Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to
 practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 3098 9-165 DWG #TAM 3/00 / 185 ing

Use one form for each individual who revis	ws and takes re			the project.
A. Project Information		Application	on number:	Lot/con.
Building number, street name			Unit no.	Lovcon.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other d	lescription	
B. Individual who reviews and take	s responsibil	ity for design activit	ties	
Name	Captures of the Parish September 11,000,000	Firm	and the second s	
SAM KATSOULAKOS		MICRO CITY I	ENGINEERING SERVI	
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by Division C	individual ide	entified in Section B	. [Building Code Ta	able 3.5.2.1. of
☐ House	☐ HVAC	– House	⊠ Building :	Structural
☐ Small Buildings	Buildin	g Services	☐ Plumbing	
□ Large Buildings		ion, Lighting and Powe		– All Buildings
☐ Complex Buildings		otection		ewage Systems
Description of designer's work ROYAL PI	NE HOMES - FO	OREST SIDE - MODEL	<u>.: UNIT 2301 – ELEV. /</u>	A OR B OR C
1ST FLOOR - SUNKEN LAUNDRY (SCH REVIEW PRE-ENGINEERED FLOOR SY	STEM COMPON	IENT DDAMINGS AND	JIPIO) TAVOLIT DI ACEMENI	T DI AN SLIPPI IED BY
TAMARACK ROOF TRUSSES INC. (SEE	DWG #TAM309	90-18 DATED 11-12-18).	TI LI WOOTT EILD DI
SUPPORTING STRUCTURE TO BE REV	IEWED AND VE	RIFED BY QUALIFIED	, BUILDING DESIGNEF	₹.
D: Declaration of Designer				
I, <u>SAM KATS</u>	OULAKOS d	eclare that (choose one	as appropriate):	
(print nar	ne)			
☑ I review and take responsible C, of the Building Code. I am	ility for the desig n qualified, and th	n work on behalf of a fir ne firm is registered, in t	m registered under sub the appropriate classes	osection 3.2.4.of Division s/categories.
Individual BCIN: <u>260</u>	064			
mariada Bonn <u>200</u>	· - ·			÷
Firm BCIN: 299	991			
☐ I review and take responsibil under subsection 3.2.5.of Di Individual BCIN:			e appropriate category	as an "other designer"
Basis for exemption fror	n registration:			
☐ The design work is exempt f	rom the registrat			
Basis for exemption from	ıı registration an	u quaiiiicaiioii		
I certify that:	achadula ia trus	to the heet of my knowl	lodao	
 The information contained in this I have submitted this application 				
	11.554	Boissatura of Docing	0_	
Date	INVI	Signature of Designer	1/	

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 3/002-18-5 DWG #TAM 3/002-18-5

Use one form for each individual who review A. Project information	vs and takes re		n activities with respect	to the project.
Building number, street name		Applica	Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	er description	
B. Individual who reviews and take	ı s responsibili	⊥ itv for design acti	vities	
Name		Firm	W. 100 (1971) 1981 1981 1981 1981 1981 1981 1981 19	
SAM KATSOULAKOS		MICRO CIT	Y ENGINEERING SER	/ICES INC.
Street address R.R #1, PO BOX 61			Unit no.	LOVGOII.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by Division Cj			(19)	
☐ House		– House	⊠ Building	
☐ Small Buildings ☐ Large Buildings		g Services ion, Lighting and Pov	☐ Plumbin	g – House g – All Buildings
☐ Complex Buildings		otection		Sewage Systems
Description of designer's work ROYAL PIN 1ST FLOOR - SUNKEN FOYER AND LAU REVIEW PRE-ENGINEERED FLOOR SYS TAMARACK ROOF TRUSSES INC. (SEE I SUPPORTING STRUCTURE TO BE REVIE	INDRY (SCHED TEM COMPON DWG #TAM3099	DULE IS NOT ISSUE IENT DRAWINGS AI 91-18 DATED 11-12-	DAS LOT SPECIFIC) ND LAYOUT PLACEMEN 18).	NT PLAN SUPPLIED BY
D. Declaration of Designer				
I, <u>SAM KATSC</u> (print nam 区 I review and take responsibili C, of the Building Code. I am	e) ty for the desigr	eclare that (choose c n work on behalf of a ne firm is registered,	firm registered under so	ubsection 3.2.4.of Division es/categories.
Individual BCIN: <u>2606</u>	34			·
Firm BCIN: 2999	91			
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:			the appropriate category	y as an "other designer"
Basis for exemption from ☐ The design work is exempt from Basis for exemption from	om the registrati	•	•	=
I certify that:				
The information contained in this s				
I have submitted this application w	rith the knowled	ge and consent of th	e tirm.	
Date	11 m	3 Signature of Design	er /	

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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 Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to
 practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 3 1003 -185 11219

Use one form for each individual who review	ws and takes re			the project.
A. Project Information	5 (5 (5 (4 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	Application	on number:	
Building number, street name		1	Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other of	description	-
B. Individual who reviews and take	s responsibil	ity for design activi	ties	
Name		Firm		- Additional Control and Contr
SAM KATSOULAKOS		MICRO CITY I	ENGINEERING SERVICE	
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by	Individual ide	ntified in Section B	. [Building Code Ta	ble 3.5.2.1. of
Division C]				
☐ House		– House	☑ Building S	
☐ Small Buildings		g Services	☐ Plumbing -	
☐ Large Buildings		ion, Lighting and Powe		
Complex Buildings		otection		ewage Systems
Description of designer's work ROYAL PIN 1ST FLOOR – STD AND ALT (SCHEDULE				<u> </u>
REVIEW PRE-ENGINEERED FLOOR SYS	TEM COMPON	IENT DRAWINGS AND	LAYOUT PLACEMENT	F PLAN SUPPLIED BY
TAMARACK ROOF TRUSSES INC. (SEE I				
SUPPORTING STRUCTURE TO BE REVII	EWED AND VE	RIFED BY QUALIFIED	,. BUILDING DESIGNER	
D. Declaration of Designer				
I, <u>SAM KATSC</u>	OULAKOS de	eclare that (choose one	as appropriate):	
(print nam				
I review and take responsibili C, of the Building Code. I am	ity for the design	n work on behalf of a fir	m registered under sub	section 3.2.4.of Division
C, of the building code. I am	quanneu, and ti	ie iiiii is registereu, iir	по арргориисе оказосо	roatogonos.
Individual BCIN:2606	34			
Firm BCIN: <u>2999</u>	91			
	in den de la dest	and an ancient of the other		an an "athan designad"
☐ I review and take responsibility under subsection 3.2.5.of Div	ty for the design	i and am qualified in the	e appropriate category a	as an other designer
Individual BCIN:	ision C, or the L	building Code.		
maividai Bonv.		•		
Basis for exemption from	registration:			
☐ The design work is exempt from	om the registrat	ion and qualification red	quirements of the Buildi	ng Code.
Basis for exemption from				
I certify that:	-	_		
The information contained in this s	schedule is true	to the best of my know	ledge.	
I have submitted this application was a submitted the app				
2. That o day, made and appropriation in		J		
			_	
		0		
Date	1.1000	Signature of Designer		<i>f</i>

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG#TAM 30992-185 DWG#TAM 31004-185

Use one form for each individual who review	ws and takes re			the project.
A. Project Information	1.65g at 45g 2.55g	Application	on number:	
Building number, street name			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other d	escription	I
B. Individual who reviews and take	s responsibil	ity for design activit	ies	
Name	to a continue de la c	Firm	on menonski antikali kan suda kan suda basa suda suda suda suda suda suda suda s	
SAM KATSOULAKOS		MICRO CITY E	NGINEERING SERVI	
Street address			Unit no.	Lot/con.
R.R #1, PO BOX 61 Municipality	Postal code	Province	E-mail	
GLENCOE	NOL 1MO	ONTARIO	L-man	
Telephone number	Fax number		Cell number	
(519) 287-2242 Business	(519) 287-575	0		
G. Design activities undertaken by Division G	individual ide	ntified in Section B.	[Building Gode Ta	able 3.5.2.1. of
□ House	□ HVAC	– House	⊠ Building S	Structural
☐ Small Buildings		g Services	☐ Plumbing	
☐ Large Buildings		on, Lighting and Power		– All Buildings
☐ Complex Buildings		otection	☐ On-site Se	ewage Systems
Description of designer's work ROYAL PIN				2
1ST FLOOR - SUNKEN FOYER (SCHEDU REVIEW PRE-ENGINEERED FLOOR SYS				T DLAN CUDDUED DV
TAMARACK ROOF TRUSSES INC. (SEE D	OMG #TAM3099	12.18 DATED 11-12-18	LATOUT PLACEMEN	I PLAN SUPPLIED BY
SUPPORTING STRUCTURE TO BE REVIE	EWED AND VE	RIFED BY QUALIFIED E	BUILDING DESIGNER	ξ
D. Declaration of Designer				
I, <u>SAM KATSC</u>	<u>OULAKOS</u> de	eclare that (choose one	as appropriate):	
(print nam	e)			
☑ I review and take responsibili	ity for the desigr	n work on behalf of a firm	n registered under sub	section 3.2.4.of Division
C, of the Building Code. I am	qualified, and th	ie firm is registered, in th	he appropriate classes	categories.
Individual BCIN:2606	64			
Firm BCIN: <u>2999</u>	91			
☐ I review and take responsibilit under subsection 3.2.5.of Divi			appropriate category	as an "other designer"
Individual BCIN:	ision C, or the D	uliding Code.		
marrada Bont.				
Basis for exemption from				
☐ The design work is exempt from	om the registrati	on and qualification requ	uirements of the Buildi	ng Code.
Basis for exemption from	registration and	d qualification:	-	
I certify that:				
The information contained in this s	chedule is true	to the best of my knowle	edge.	
2. I have submitted this application w	rith the knowled	ge and consent of the fir	m.	
			0	
Date		Signature of Designer	//	
Date	11/10	> signature of Designer		

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM 30993 -185 DWG #TAM 31.005 -185

Use one form for each individual who review A: Project Information	vs and takes res	sponsibility for design activitie Application nu		the project.			
Building number, street name		Application	Unit no.	Lot/con.			
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other descrip	otion				
B. Individual who reviews and takes	s responsibili	ty for design activities		en e			
Name SAM KATSOULAKOS		Firm MICRO CITY ENGIN	IEERING SERVIC	CES INC.			
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.			
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail				
Telephone number (519) 287-2242 Business	Fax number (519) 287-5750		Cell number				
C. Design activities undertaken by i	ndividual ide	ntified in Section B. [Bu	ilding Code Ta	ble 3.5.2.1, of			
☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings	□ House □ HVAC – House □ Small Buildings □ Building Services □ Large Buildings □ Detection, Lighting and Power						
□ Complex Buildings □ Fire Protection □ On-site Sewage Systems Description of designer's work ROYAL PINE HOMES – FOREST SIDE – MODEL: UNIT 2301 – ELEV. D 1ST FLOOR – SUNKEN LAUNDRY (SCHEDULE IS NOT ISSUED AS LOT SPECIFIC) REVIEW PRE-ENGINEERED FLOOR SYSTEM COMPONENT DRAWINGS AND LAYOUT PLACEMENT PLAN SUPPLIED BY TAMARACK ROOF TRUSSES INC. (SEE DWG #TAM30994-18 DATED 11-12-18). SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFED BY QUALIFIED BUILDING DESIGNER.							
D. Declaration of Designer							
I, <u>SAM KATSO</u> (print name) 区 I review and take responsibili C, of the Building Code. I ame	e) ty for the desigr		istered under sub				
Individual BCIN:2606	64						
Firm BCIN:2999	01						
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:	y for the design sion C, of the B	and am qualified in the appruilding Code.	opriate category a	as an "other designer"			
Basis for exemption from registration: The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:							
I certify that: 1. The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm.							
Date	11MB	Signature of Designer	l-				

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM 3 0994-185 DWG #TAM 3 100 6-175

Use one form for each individual who review A. Project Information	vs and takes re	A 1: 4	activities with respect to the fion number:				
Building number, street name			Unit no.	Lot/con.			
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	description				
B. Individual who reviews and takes	s responsibili	(NEXT CHANGE OF AN ALL PROPERTY OF A STATE O	ities				
Name SAM KATSOULAKOS		Firm MICRO CITY	ENGINEERING SERVICE	ES INC.			
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.			
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail				
Telephone number (519) 287-2242 Business	Fax number (519) 287-575		Cell number				
C. Design activities undertaken by i	ndividual ide	ntified in Section	B. [Building Code Tab	le 3.5.2.1. of			
Division ©]		Havaa	□ Duilding Ct	uotural			
☐ House ☐ Small Buildings	☐ HVAC Buildin		⊠ Building Str □ Plumbing –				
☐ Large Buildings		on, Lighting and Pow					
☐ Complex Buildings	☐ Fire Pr	otection	☐ On-site Sev				
Description of designer's work ROYAL PINE HOMES – FOREST SIDE – MODEL: UNIT 2301 – ELEV. D 1ST FLOOR – SUNKEN FOYER AND LAUNDRY (SCHEDULE IS NOT ISSUED AS LOT SPECIFIC) REVIEW PRE-ENGINEERED FLOOR SYSTEM COMPONENT DRAWINGS AND LAYOUT PLACEMENT PLAN SUPPLIED BY TAMARACK ROOF TRUSSES INC. (SEE DWG #TAM30995-18 DATED 11-12-18). SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFED BY QUALIFIED BUILDING DESIGNER. D. Declaration of Designer I, SAM KATSOULAKOS declare that (choose one as appropriate):							
Individual BCIN: <u>2606</u>	64						
Firm BCIN: <u>2999</u>	91						
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:	y for the design sion C, of the B	and am qualified in the	ne appropriate category as	an "other designer"			
Basis for exemption from The design work is exempt from Basis for exemption from	om the registrati		equirements of the Building				
I certify that:							
The information contained in this s I have submitted this application w							
Date		Signature of Designe	0				

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM 30995 -185 DWG #TAM 31007 -185

Schedule 1: Designer Information ch individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information	vs and takes re		cation numbe		project.
Building number, street name			SECURED SERVICES AND ASSESSMENT OF THE PROPERTY OF THE PROPERT	t no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ ot	her description		
B. Individual who reviews and takes	s responsibil	ity for design ac	tivities		
Name SAM KATSOULAKOS		Firm	ITY ENGINEERI	NG SEDVICES	INC
SAM KATSOULAKOS Street address		WICKOC	Unit		Lot/con.
R.R #1, PO BOX 61	Dootal anda	Drovince	E-m	oil	
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	C-111	all	
Telephone number	Fax number	^	Cell	number	
(519) 287-2242 Business C. Design activities undertaken by	(519) 287-575		sn B. (Buildin	n Code Table	3521 of
Division C	iliulviuuai lue	muneu in Secu	AL D. Leanain	y code Table	0.0.2111 01
☐ House	☐ HVAC			Building Struc	
☐ Small Buildings	☐ Buildin	g Services ion, Lighting and P		Plumbing – He Plumbing – All	
☐ Large Buildings ☐ Complex Buildings		ion, Lighting and P otection		On-site Sewa	
Description of designer's work ROYAL PIN	E HOMES - FO	DREST SIDE - MO			9 ,
2ND FLOOR (SCHEDULE IS NOT ISSUED			ANDIAVOUT D		AN CURRUED BY
REVIEW PRE-ENGINEERED FLOOR SYS TAMARACK ROOF TRUSSES INC. (SEE D				LACEMENT PL	AN SUPPLIED DI
SUPPORTING STRUCTURE TO BE REVIE	EWED AND VE	RIFED BY QUALIF	FIED BUILDING I	DESIGNER.	
D. Declaration of Designer					
I. SAM KATSO	ULAKOS de	eclare that (choose	one as appropri	ate):	
(print nam		,		,	
☑ I review and take responsibili					
C, of the Building Code. I am	qualified, and th	ne firm is registere	d, in the appropri	ate classes/cat	egories.
Individual BCIN: <u>2606</u>	64				
Firm BCIN: <u>2999</u>	91				
	for the decision	and on qualified	in the engrapriet	a antonomi an a	n "other decigner"
☐ I review and take responsibilit under subsection 3.2.5.of Div			in the appropriate	e calegory as a	iii otilei designei
Individual BCIN:					
Basis for exemption from	registration:				
☐ The design work is exempt from	om the registrat	ion and qualification	n requirements o	 of the Buildina (Code.
Basis for exemption from			•		
I certify that:	_				
The information contained in this s					
I have submitted this application w	rith the knowled	ge and consent of	the firm.		
		_	0_		
Date	UME	3 Signature of Desi	gner		

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM 30996-185 DWG #TAM 31006185

Schedule 1: Designer Information Use one form for each individual who reviews and takes responsibility for design activities with respect to the project

A. Project Information	o and takes re	Application in		io project.
Building number, street name	rt verde en vermit en godiner gemeent weten en tre kenne, anve	194 (To be the control of the contro	Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other descri	otion	
B. Individual who reviews and takes	s responsibili	A CONTRACT OF THE PROPERTY OF		
Name SAM KATSOULAKOS		Firm MICRO CITY ENGI		
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by i			uilding Code Tab	le 3.5.2.1. of
Division C House	☐ HVAC	– House		ructural
☐ Small Buildings	☐ Buildin		☐ Plumbing –	
☐ Large Buildings ☐ Complex Buildings		on, Lighting and Power otection	☐ Plumbing – /☐ On-site Sev	
Description of designer's work ROYAL PIN				vage Cystems
2ND FLOOR (SCHEDULE IS NOT ISSUED	AS LOT SPEC	CIFIC)		
REVIEW PRE-ENGINEERED FLOOR SYS' TAMARACK ROOF TRUSSES INC. (SEE D			OUT PLACEMENT	PLAN SUPPLIED BY
SUPPORTING STRUCTURE TO BE REVIE	WED AND VE	RIFED BY QUALIFIED BUIL	DING DESIGNER.	
D. Declaration of Designer		1969 (1965) 1979 (1965)		
I, <u>SAM KATSO</u>	<u>ULAKOS</u> de	eclare that (choose one as a	opropriate):	
(print name				
I review and take responsibility C, of the Building Code. I am of				
Individual BCIN: <u>2606</u>	4			
Firm BCIN: <u>2999</u>	1	-	,	
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN:	y for the design sion C, of the B	and am qualified in the appluilding Code.	opriate category as	an "other designer"
Basis for exemption from The design work is exempt fro Basis for exemption from	m the registrati		nents of the Building	g Code.
I certify that: 1. The information contained in this s 2. I have submitted this application w				
Date	UMB	Signature of Designer	2	

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 30997-185 DWG #TAM 31009-185

Use one form for each individual who review A. Project Information	vs and takes res	sponsibility for design activiti Application n	es with respect to umber:	the project.				
Building number, street name		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unit no.	Lot/con.				
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other descri	ption					
B. Individual who reviews and take	s responsibili	ty for design activities						
Name SAM KATSOULAKOS		Firm MICRO CITY ENGI	NEERING SERVI	CES INC.				
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.				
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail					
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number					
C. Design activities undertaken by	individual ide	ntified in Section B. [B	uilding Code Ta	able 3.5:2.1. of				
Division C]	□ HVAC	– House	⊠ Building S	Structural				
☐ Tiduse ☐ Small Buildings	☐ Buildin		☐ Plumbing					
☐ Large Buildings		on, Lighting and Power		– All Buildings				
☐ Complex Buildings	☐ Fire Pr	otection		ewage Systems				
Description of designer's work ROYAL PINE HOMES – FOREST SIDE – MODEL: UNIT 2301 – ELEV. C 2ND FLOOR (SCHEDULE IS NOT ISSUED AS LOT SPECIFIC) REVIEW PRE-ENGINEERED FLOOR SYSTEM COMPONENT DRAWINGS AND LAYOUT PLACEMENT PLAN SUPPLIED BY TAMARACK ROOF TRUSSES INC. (SEE DWG #TAM30998-18 DATED 11-12-18).								
SUPPORTING STRUCTURE TO BE REVI	EWED AND VE	RIFED BY QUALIFIED BUIL	DING DESIGNEF	₹.				
D. Declaration of Designer								
I, <u>SAM KATSC</u>		eclare that (choose one as a	ppropriate):					
(print nam ⊠ I review and take responsibili C, of the Building Code. I am	ty for the design	n work on behalf of a firm reque firm is registered, in the a	gistered under sub opropriate classes	osection 3.2.4.of Division s/categories.				
Individual BCIN: <u>2600</u>	64							
Firm BCIN:2999	91							
☐ I review and take responsibili under subsection 3.2.5.of Div Individual BCIN:	ty for the desigr ision C, of the E	and am qualified in the app Building Code.	ropriate category	as an "other designer"				
Basis for exemption from The design work is exempt for Basis for exemption from	om the registrat	ion and qualification requirer	ments of the Build	ing Code.				
I certify that: 1. The information contained in this s 2. I have submitted this application v			9.					
Date	11148	Signature of Designer	l-					

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 30998-185 LM38
DWG #TAM 31010-185

Use one form for each individual who review	vs and takes les		cation number:	c to the project				
A. Project information		Visbii	Unit no.	Lot/con.				
Building number, street name			Offictio.	2000011				
Municipality CITY OF BRAMPTON	Postal code	Plan number/ ot	ner description					
B. Individual who reviews and takes	s responsibili	CA-Andrews Control of the Control of	tivities					
Name		Firm	ITY ENGINEERING SEF	RVICES INC.				
SAM KATSOULAKOS Street address		INICKO	Unit no.	Lot/con.				
R.R #1, PO BOX 61								
Municipality	Postal code	Province	E-mail					
GLENCOE Telephone number	NOL 1M0 Fax number	ONTARIO	Cell number	· · · · · · · · · · · · · · · · · · ·				
(519) 287-2242 Business	(519) 287-575	0						
C. Design activities undertaken by			n B. (Building Code	Table 3.5.2.1. of				
Division C]			•					
☐ House	☐ HVAC	– House		ng Structural				
☐ Small Buildings	☐ Building			ing – House				
☐ Large Buildings		on, Lighting and F		ng – All Buildings				
☐ Complex Buildings Description of designer's work ROYAL PIN	Fire Property	otection		e Sewage Systems				
2ND FLOOR (SCHEDULE IS NOT ISSUED	O AS LOT SPEC	CIFIC)	DEL. UNIT 2301 - LLL	<u>, v, o</u>				
REVIEW PRE-ENGINEERED FLOOR SYS	TEM COMPON	ENT DRAWINGS	AND LAYOUT PLACEM	ENT PLAN SUPPLIED BY				
TAMARACK ROOF TRUSSES INC. (SEE D	DWG #TAM3099	99-18 DATED 11-1	2-18).	irD.				
SUPPORTING STRUCTURE TO BE REVII	EWED AND VEI	KIFED BY QUALI	IED BUILDING DESIGN	IEK.				
D. Declaration of Designer	100							
I, <u>SAM KATSC</u>	OULAKOS de	eclare that (choose	one as appropriate):					
(print nam	e)							
☑ I review and take responsibili	ity for the design	n work on behalf o	a firm registered under	subsection 3.2.4.of Division				
C, of the Building Code. I am	qualified, and th	ne tirm is registere	d, in the appropriate clas	ses/categories.				
Individual BCIN:2606	34							
	.							
Firm BCIN: <u>2999</u>	<u> </u>							
│	ty for the design	and am qualified	in the appropriate catego	ory as an "other designer"				
under subsection 3.2.5.of Div	ision C, of the B	Building Code.	spp. spilate sateg	,				
Individual BCIN:	·							
Basis for exemption from ☐ The design work is exempt from	ı registration:	ion and qualification	in requirements of the Ri	uilding Code				
Basis for exemption from			an requirements of the Di	unung oodo.				
-	i regionation ari	a quannoation						
I certify that: 1. The information contained in this schedule is true to the best of my knowledge.								
2. Thave submitted this application v	VIGIT GIO MIOWICO	190 4114 001100111 01						
			1					
	14 -							
Date	1112	\mathscr{B} Signature of Des	gner / /	·				

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM 30 999 -185 DWG #TAM 31011-185



PASSED

Basment\Flush Beams\B1(1798)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475.

Job name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Address: City, Province, Postal Code: BRA...ON

Specifier:

Description: Basment\Flush Beams\B1(i798)

ΑJ

Customer:

Code reports: CCMC 12472-R Designer:

Company:

				· · · · · · · · · · · · · · · · · · ·
	1 1 1 1 1 1 1	1 2 1 1 1		
	T		1 1 1 1 1 1	+ + + + + +
I I I I I I I I I		404 4 4	1 1 1 1 1	
				L.
	· ·	44 45 51		•

Total Horizontal Product Length = 08-07-04

Reaction Summary (Down / Uplift) (lbs)

Live B1, 2-3/8" 1,055 / 0 578/0 B2, 4-3/8" 1,146 / 0 626 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	_ End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight '	Unf. Lin. (lb/ft)	L.	00-00-00	08-07-04	Top		12		•	00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	08-07-04	Top	21	11			n\a
2	User Load	Unf. Lin. (lb/ft)	L.	00-02-06	08-07-04	Top	240	120		٠	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	4,753 ft-lbs	35,392 ft-lbs	13.4%	1	04-02-10
End Shear	1,728 lbs	14,464 lbs	11.9%	1	01-02-04
Total Load Deflection	L/999 (0,041")	n\a	n\a	4	04-02-10
Live Load Deflection	L/999 (0.027")	n\a	n\a	5	04-02-10
Max Defl.	0.041"	n\a	n\a	4	04-02-10
Span / Depth	8.3	,			

	Bearing	Supports	Dim. (LxW)	Demand	Resistance Support	Resistance Member	Material
٠	B1	Wall/Plate	2-3/8" x 3-1/2"	2,305 lbs	64.9%	22.7%	Unspecified
	B2	Wall/Plate	4-3/8" x 3-1/2"	2,500 lbs	38.2%	13.4%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Member has no side loads.

CONFORMS TO OBC 2012

OWE NO. TAM 8598-10H STRUCTURAL COMPONERT ONLY





PASSED

Basment\Flush Beams\B1(i798)

BC CALC® Member Report

Build 6475 Job name:

Address;

Code reports:

City, Province, Postal Code: BRA...ON Customer:

CCMC 12472-R

Dry | 1 span | No cant.

July 4, 2018 08:15:31

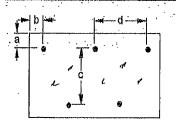
UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl Basment\Flush Beams\B1(i798)

File name: Description: Specifier: .

Designer:

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

c = 7-7/8" d= 00 6

Member has no side loads. Connectors are: 16d Nails

3-1/2" ARDOX SPIRAL



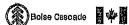
<u>Disclosure</u>

Use of the Bolse Cascade Software Is Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based of application. The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DWO NO . TAM *BI 98*-18 H Structural COMPONENT ONLY

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®. VERSA-LAM®, VERSA-RIM PLUS®.

T-1811397(V)



Passed

Basment\Flush Beams\B2(i771)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

File name: Description:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Basment\Flush Beams\B2(1771)

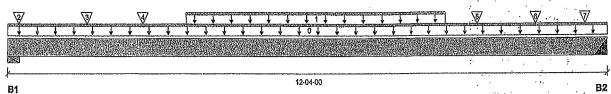
Specifier:

Designer:

Customer: Code reports:

CCMC 12472-R

Company:



Total Horizontal Product Length = 12-04-00

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 5-1/2"	876 / 0	1,201/0
B2, 2"	1,112 / 0	736 / 0

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Re	f. Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	. L	00-00-00	12-04-00	Top		. 12			00-00-00
1.	Smoothed Load "	Unf, Lin, (lb/ft)	L.	03-07-12	08-11-12	Top	136	68			n\a
2	2(1470)	Conc. Pt. (lbs)	· L	00-02-12	00-02-12	Top	135	702			n\a
3	J6(1414)	Conc. Pt. (lbs)	L	01-07-12	01-07-12	Тор	138	69			nla
4		Conc. Pt. (lbs)	L	02-09-06	02-09-06	Top	206	151			n\a
5	J5(I408)	Conc. Pt. (lbs)	L	09-07-12	09-07-12	Top	172	86			n\a
6	B5(1797)	Conc. Pt. (lbs)	L	10-10-00	10-10-00	Top	382	302			n\a
7	J3(1742)	Conc. Pt. (lbs)	L.	11-10-08	11-10-08	Top	227	114	•		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	5,854 ft-lbs	35,392 ft-lbs	16.5%	1.	06-11-12
End Shear	2,230 lbs	14,464 lbs	15.4%	4	11-02-02
Total Load Deflection	L/999 (0,109")	n\a	n\a	4	06-03-12
Live Load Deflection	L/999 (0.066")	n∖a	n\a	5	06-03-12
Max Defl.	0.109"	n\a	n\a	4	06-03-12
Span / Depth	12.0			•	121

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 3-1/2"	2,815 lbs	34.2%	12.0%	Unspecified
B2	Hanger	2" x 3-1/2"	2,588 lbs	n\a	30,3%	HGUS410

Cautions

Header for the hanger HGUS410 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

> DWE NO . TAN 8599-18 STRUGTURAL COMPONENT ONLY





PASSED

July 4, 2018 08:15:31

Basment\Flush Beams\B2(i771)

BC CALC® Member Report

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer: Code reports:

Dry | 1 span | No cant.

File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl Basment\Flush Beams\B2(i771)

Description:

Specifier: Designer:

CCMC 12472-R

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria,

Calculations assume unbraced length of Top: 00-00-00, Bottom: 00-00-00.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

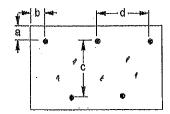
Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9 Connection design assumes point load is top-loaded. For connection design of side-loaded point loads,

please consult a technical representative or professional of Record.

Connection Diagram: Full Length of Member

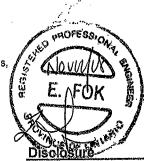


a minimum ≈ 2" b minimum = 3" c = 7-7/8" d = 🐲

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Nalls

3-1/2" ARDOX SPIRAL



Use of the Bolse Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current installation Gulde and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

DWONO.TAM 0599-18 H BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, STRUCTURAL BOISE GLULAM™, BC FloorValue®, COMPONENT UNLY CARSA-LAM®, VERSA-RIM PLUS®,





PASSED

B2

Basment\Flush Beams\B3(i769)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name:

Address:

File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Description: Basment\Flush Beams\B3(I769)

City, Province, Postal Code: BRA...ON Customer;

Specifier: Designer:

Code reports:

CCMC 12472-R

Company:

Total Horizontal Product Length = 08-03-14

Reaction Summary (Down / Uplift) (lbs)

Dead Snow Wind B1, 2-3/8" 313/0 57/0 B2, 3-1/2" 1,154 / 0 1,021 / 0

Lo	ad Summary						Live	Dead.	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1,00	1,15	
0	Self-Welght	Unf. Lin. (lb/ft)	L,	00-00-00	08-03-14	Тор		12			00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L ·	00-00-00	08-00-06	Тор	14	7			n\a
2	User Load	Unf. Lin. (lb/ft)	L	00-02-06	08-00-06	Top		60			n\a
3	B2(1771)	Conc. Pt. (lbs)	L	08-02-02	08-02-02	Top	1,100	708			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	874 ft-lbs	23,005 ft-lbs	3,8%	0	04-01-06
End Shear	323 lbs	9,401 lbs	3,4%	0	01-02-04
Total Load Deflection	L/999 (0,009")	n\a	n\a	4	04-01-06
Live Load Deflection	L/999 (0.001")	n\a	n\a	5	04-01-06
Max Defl.	0.009"	n\a	n\a .	. 4	04-01-06
Spen / Denth	8 n .				

Bearing	y Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 3-1/2"	438 lbs	19.0%	6.6%	Unspecified
B2	Column	3-1/2" x 3-1/2"	3,007 lbs	37.8%	20,1%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

> DWB NO . TAN 8600.18 STRUCTURAL COMPONENT ONLY





PASSED

Basment\Flush Beams\B3(i769)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name:

Address:

Code reports:

City, Province, Postal Code: BRA...ON

Customer:

CCMC 12472-R

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

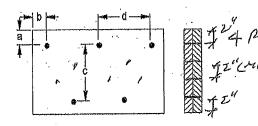
File name: Specifier:

Description: Basment\Flush Beams\B3(i769)

Designer:

Company:

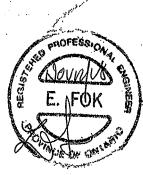
Connection Diagram: Full Length of Member



a minimum = 2" b minimum ≈ 3" d= 17/10" 12" c = 7-7/8"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are: 16d

3-1/2" ARDOX SPIRAL



Disclosure

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Completeriess and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DWO NO. TAM GGO. 18 BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

T. USU39960





PASSED

B2

Basment\Flush Beams\B4(i796)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer:

B1

Code reports:

CCMC 12472-R

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl File name:

Description: Basment\Flush Beams\B4(i796)

Specifier:

Designer: Company:

08-09-08 Total Horizontal Product Length = 08-09-08

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead B1, 3-1/2" 632 / 4 943/0 B2, 5-1/2" 1,791 / 8 1,191/0

الما	ad Summary 👙 👵	·						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.		1.00	0.65	1.00	1,15	
0	Self-Welght	Unf. Lin. (lb/ft)	·L	00-00-00	08-09-08	Top			12			00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	<u>L</u> .	00-00-00	05-00-08	Top		20	10			-n\a
2	FC3 Floor Material	Unf. Lin. (lb/ft)	L	05-00-08	08-09-08	Top		42	21			n\a
3	E1(1311)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Top	:	497	781		٠	n\a
4.	E1(1311)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Top	. ,	-4	•			n\a
5	B8(1795)	Conc. Pt. (lbs)	L	05-01-06	05-01-06	Top		84	147			n\a
6	B8(1795)	Conc. Pt. (lbs)	L	05-01-06	05-01-06	Top		-1				n\a
7	1(1469)	Conc. Pt. (lbs)	L	08-06-12	08-06-12	Тор		1,585	971			n\a
8	1(1469)	Conc. Pt. (lbs)	L	08-06-12	08-06-12	Top		-7		•		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1,224 ft-lbs	35,392 ft-lbs	3.5%,	1	05-01-06
End Shear	434 lbs	14,464 lbs	3.0%	. 1	07-04-02
Total Load Deflection	L/999 (0.01")	n\a	n∖a · · ·	6	04-05-0
Live Load Deflection	L/999 (0.004")	nla	n\a	8	04-05/07
Max Defl.	0.01"	n\a	n\a	6	04-0 %-02
Span / Depth	8.3	g a series de la compa		1	AES.

				Demand/ Resistance	Demand/ Resistance	
Bearing	Supports	Dlm. (LxW)	Demand	Support	Member	Material
B1	Wall/Plate	3-1/2" x 3-1/2"	2,126 lbs	40,6%	14.2%	Unspecified
B2	Wall/Plate	5-1/2" x 3-1/2"	4,175 lbs	50.8%	17.8%	Unspecified

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

OWAND. TAM BEOLET PELL COMPONENT ONLY

T- Univers





PASSED

Basment\Flush Beams\B4(1796)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name: Address:

Customer:

City, Province, Postal Code: BRA...ON

File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

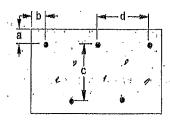
Basment\Flush Beams\B4(1796) Description:

Specifier:

Designer: ΑJ

Code reports: CCMC 12472-R Company:

Connection Diagram: Full Length of Member



a minimum = 2"

b minimum = 3"

c = 7-7/8" d =

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record, Connectors are: ı Nalls 1

3-1/2" ARDOX SPIRAL



Use of the Belse Cascade Software Is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of Input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DVG NO. TAM 8601-18 STRUCTURAL COMPONENT ONLY

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

T Chillon (M





PASSED

Basment\Flush Beams\B5(i797)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475

Job name:

Address: City, Province, Postal Code: BRA...ON

File name: UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Description: Basment\Flush Beams\B5(1797)

Specifier:

Designer:

Customer: Code reports:

CCMC 12472-R

Company:

(B)																											1			٠.	,	•		
1"-	1	Torrest Contract	1	1	1	2	1	1	1	1	1	67														• .	٠.;	;				· . ·	٠.	
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<u> </u>																										15 /		<u> </u>				~~	<u></u>	
81															10-08	3-00										•		•			1		٠	B2

Total Horizontal Product Length = 10-08-00

Reaction Summary (Down / Uplift) (lbs)

Wind Bearing Live Snow 1,862 / 0 B1, 3-1/2" 1,857 / 1 B2, 2" 406 / 0 330 / 0

L	ad Summary	•	٠.		•••		Live	Dead	Snow	Wind	Tributary
Ta		Load Type	Ref	Start	End	Loc.	1.00	0.65	1.00	1,15	
0	Self-Welght	Unf. Lin. (lb/ft)	L.	00-00-00	10-08-00	Тор		12			00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	04-01-08	Тор	24	12			n\a
2	User Load	Unf. Lin. (lb/ft)	Ł	00-03-08	.04-01-08	Top ·		60			· n\a
3	FC3 Floor Material	Unf. Lin. (lb/ft)	L	04-01-08	10-08-00	Top	45	22			n\a
4	E1(I311)	Conc. Pt. (lbs)	L.	00-02-12	00-02-12	Тор	1,397	1,352			n\a
5	E1(1311)	Conc. Pt. (lbs)	L.	00-02-12	00-02-12	Тор	-1				n\a
6	B6(i386)	Conc. Pt. (lbs)	L	04-03-04	04-03-04	Тор	477	287			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	4,183 ft-lbs	35,392 ft-lbs	11.8%	1	04-03-04
End Shear	1,170 lbs	14,464 lbs	8.1%	1	01-03-06
Total Load Deflection	L/999 (0.052")	· n\a	: n\a	6	. 05-03-01
Live Load Deflection	L/999 (0,028")	· n\a	n\a	8	05-03-01
Max Defl.	0.052"	n\a	n\a.	6	05-03-01
Span / Depth	10.4	•			leg _e

				Demand/ Resistance	Demand/ Resistance	
Bearing	Supports	Dlm. (LxW)	Demand	Support	Member	Material
B1	Wall/Plate	3-1/2" x 3-1/2"	5,114 lbs	97.7%	34.2%	Unspecified
B2	Hanger	2" x 3-1/2"	1,022 lbs	n\a	12.0%	HGUS410

Cautions

Header for the hanger HGUS410 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

> STRUCTURAL COMPONENT ONLY





PASSED

July 4, 2018 08:15:31

Basment\Flush Beams\B5(i797)

BC CALC® Member Report

Build 6475

Code reports:

Job name:

Address:

City, Province, Postal Code: BRA...ON Customer:

Dry | 1 span | No cant.

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl File name:

Description: Basment\Flush Beams\B5(i797)

Specifier:

Designer:

Company:...

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer, Unassigned :

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

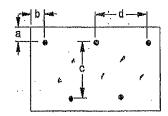
Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7-7/8" RH d = 2000

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 3-1/2" ARDOX SPIRAL Disclosure Co Com 1 to

Use of the Bolse Cascade Software Is subject for the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of sultability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DWG NO. TAN BEOWIS STRUCTURAL COMPONENT ONLY

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®

T-18114016)





CCMC 12472-R

Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

Basment\Flush Beams\B6(i386)

BC CALC® Member Report

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer: Code reports:

Dry | 1 span | No cant.

July 4, 2018 08:15:31

File name:

AJ

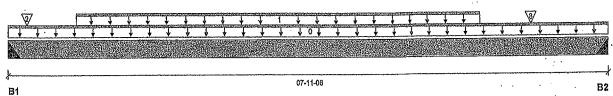
Wind

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl Description: Basment\Flush Beams\B6(i386)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 07-11-08 Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 2"	541 / 0	318 / 0	
B2, 2"	480 / 0	288/0	

	ad Summary Description	Load Type	Ref.	Start	End	Loc.	L.lve 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	07-11-08	Top		12			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-11-00	06-03-00	Тор	136	68			. n\a
2	J5(l464)	Conc. Pt. (lbs)	L	00-03-00	00-03-00	Top	121	60			n\a
3	J5(i408)	Conc. Pt. (lbs)	L	06-11-00	06-11-00	Тор	172	86		•	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2,300 ft-lbs	35,392 ft-lbs	6.5%	1	04-03-00
End Shear	1,021 lbs	14,464 lbs	7.1%	1	06-09-10
Total Load Deflection	L/999 (0.018")	n\a	n\a	4	04-00-00
Live Load Deflection	L/999 (0.011")	- n\a	n\a	- 5	04-00-00
Max Defl.	0,018"	n\a	n\a	4	04-00-00
Span / Depth	7.8	•	•		• . •

Bearing	Supports	Dim, (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 3-1/2"	1,208 lbs	n\a	14.1%	HUC410
B2	Hanger	2" x 3-1/2"	1,080 lbs	n\a	12.7%	HGUS410

Cautions

Header for the hanger HUC410 at B1 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HUC410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Header for the hanger HGUS410 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

> BWO NO. TAM 8603-19 STRUCTURAL COMPONENT ONLY





PASSED

Basment\Flush Beams\B6(i386)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Description:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl .

File name:

Basment\Flush Beams\B6(i386)

Specifier: Company:

Customer: Code reports:

CCMC 12472-R

Designer:

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

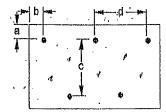
CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads,

please consult a technical representative or professional of Record.

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7:7/8"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are; 16d ___ Nails

3-1/2" ARDOX SPIRAL

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BUUND. TAM 860318 STRUCTURAL COMPONENT ONLY

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®

T- (811602(N)





PASSED

Basment\Flush Beams\B7(i794)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475

Job name:

Customer:

Address: City, Province, Postal Code: .BRA...ON

File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Description: Basment\Flush Beams\B7(i794)

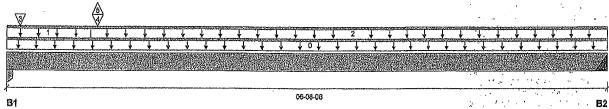
Wind

Specifier:

Designer:

Code reports: CCMC 12472-R

Company:



Total Horizontal Product Length ≈ 06-06-08

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing B1, 3-1/2" Live Dead 729 / 1 644/0 B2, 2" 100/0 102/0

Loi	ad Summary						Live	Dead	Snow	Wind	Tributary
		Load Type	Ref.	Start	End	Loc.	1.00	0,65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	06-06-08	Top		12			00-00-00
1.	FC3 Floor Material	Unf. Lin. (lb/ft)	L,	00-00-00	00-11-00	Top	11			•	n\a
2	FC3 Floor Material	Unf, Lln, (ib/ft)	L	00-11-00	06-06-08	Top	27	13			n\a
3	B6(1386)	Conc. Pt. (lbs)	L	00-01-12	-00-01-12	Top	544.	319		. •	n\a
4	B8(1795)	Conc. Pt. (lbs)	L.	00-11-14	00-11-14	Top .	125	168	:		n\a
5	B8(1795)	Conc. Pt. (lbs)	L.	00-11-14	00-11-14	Тор	-1				n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	508 ft-lbs	35,392 ft-lbs	1.4%	1	02-08-05
End Shear	415 lbs	14,464 lbs	2.9%	1	01-03-06
Total Load Deflection	L/999 (0.003")	n\a	n\a.	6.	03-02-07
Live Load Deflection	L/999-(0,001")	n∖a · .	n\a⊸	8	03-02-07
Max Defl.	0,003"	n\a	n\a	6	03-02-07
Span / Depth	63				10 H 10

Bearing	Supports	Dim, (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1-	Column	3-1/2" x 3-1/2".	1,773 lbs	22.3%	11.9%	Unspecifi	d
B2	Hanger	2" x 3-1/2"	278 lbs	n\a	3:2%	HGUS410	

Cautions

Header for the hanger HGUS410 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

> DWG NO. TAMBGOY-187612 STRUCTURAL COMPONENT OKLY

T-1811403





PASSED

Basment\Flush Beams\B7(i794)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl Description: Basment\Flush Beams\B7(i794)

Specifier:

File name:

Designer:

Customer: Code reports:

CCMC 12472-R

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

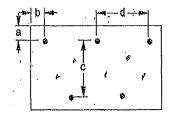
CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads,

please consult a technical representative or professional of Record.

Connection Diagram: Full Length of Member



a minimum ≈ 2" b minimum ≈ 3"

c = 7.7/8"d = 230

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are:

3-1/2" ARDOX SPIRAL

City Oh shape by

Disclosure

Use of the Bolse Cascade Software Is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

STRUETURAL COMPONENT ONLY

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARDTM, BCI®,
BOISE GLULAMTM, BC FloorValue®,
VERSAJI AM® VERSA-RIM PLUS®. VERSA-LAM®, VERSA-RIM PLUS®

T. Usuco3(1)



Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B8(i795)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Build 6475

Job name:

Address:

Customer;

Code reports:

City, Province, Postal Code: BRA...ON

CCMC 12472-R

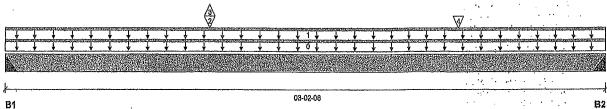
UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Basment\Flush Beams\B8(i795) Description:

Wind

Specifier:

Designer: AJ Company:



Total Horizontal Product Length ≈ 03-02-08

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead Snow B1, 2" 83 / 1 147 / 0 B2, 2" 126 / 1 169 / 0

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description "	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1,15	
0	Self-Weight	Unf. Lin. (lb/ft)	· L	00-00-00	03-02-08	Top		6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		00-00-00
1	User Load	Unf, Lin. (lb/ft)	L.	00-00-00	03-02-08	Top		60			n\a
2	J6(l415)	Conc. Pt. (lbs)	L.	01-01-00	01-01-00	Top	78	38			n\a
3	J6(I415)	Conc. Pt. (lbs)	L,	01-01-00	01-01-00	Тор	-2				n\a
4	. J6(1414)	Conc. Pt, (lbs)	L	02-05-00	02-05-00	Тор	.131	[,] 66			n\a

Controls Summary	Factored Demand.	Factored Resistance	Demand/ Resistance	Case Location
Pos. Moment	270 ft-lbs	17,696 ft-lbs	1.5%	1. 01-08-09
End Shear	203 lbs	7,232 lbs	2.8%	1 02-00-10
Total Load Deflection	L/999 (0.001")	n\a	n\a	6 01-07-04
Live Load Deflection	L/999 (0")	nla	n\a	8 , 01-07-15 ,
Max Defl.	0.001"	n\a	n\a	6 01-07-04
Span / Depth	3.0			-

Bearing Supports	Dim, (LxW)	Demand	Resistance Support	Demand Resistance Member	Material
B1 Hanger	2" x 1-3/4"	205 lbs .	n\a	7.4%	HUS1.81/10
B2 Hanger	.2" x 1-3/4"	401 lbs	n\a	9.4%	HU\$1.81/10

Header for the hanger HUS1.81/10 at B1 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Header for the hanger HUS1.81/10 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM@ 1.7 2400 DF.

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

COMPONENT ONLY

OWE NO . TAN 8605 -18 H STRUCTURAL

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARDTM, BCI®, BOISE GLULAMM, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Use of the Bolse Cascade Software Is subject to the terms of the End User License Agreement (EULA).
Completeness and accuracy of Input
must be reviewed and verified by a

must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade

engineered wood products must be in

accordance with current Installation Guide and applicable building codes. To

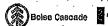
questions, please call (800)232-0788

installation of Boise Cascade

obtain Installation Guide or ask

before installation.

T- 1811404



PASSED

1st Floor\Flush Beams\B17(i717)

BC CALC® Member Report

Bulld 6475

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRA...ON

CCMC 12472-R

Dry | 1 span | No cant.

July 4, 2018 08:15:31

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl 1st Floor\Flush Beams\B17(i717)

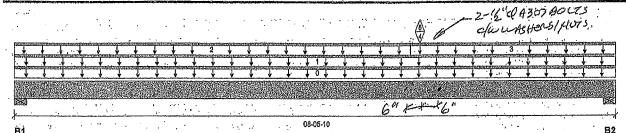
Wind

Description: Specifier:

Designer:

Company:

File name:



Total Horizontal Product Length = 08-05-10

Snow

Reaction Summary (Down / Uplift) (lbs)

Dead Live B1, 4-3/8" 787/4 467/0 B2, 2-3/4" 834 / 0 1,479 / 7

Loa	ad Summary						Live	Dead	Snow	Wind'	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
Q	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-05-10	Тор		12			00-00-00
1	FC4 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	08-05-10	Top	27	14			n\a
2	FC4 Floor Material	Unf, Lin. (lb/ft)	L	00-00-00	05-06-06	Top	. 6 .	3			n\a
3	FC4 Floor Material	Unf. Lin. (lb/ft)	L	05-06-06	08-05-10	Top	20 .	10			n∖a
4	B19(1721)	Conc. Pt. (lbs)	L	05-08-02	05-08-02	Тор	1,947	1,040			. n\a
5	B19(i721)	Conc. Pt. (lbs)	L	05-08-02	05-08-02	Top	-11			A 18 . S.	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	8,120 ft-lbs	35,392 ft-lbs	22.9%	. 1	05-08-02
End Shear	3,122 lbs	14,464 lbs	21.6%	1	07-03-00
Total Load Deflection.	L/999 (0.054")	n\a	n\a	, 6	04-07-06
Live Load Deflection	L/999 (0,035")	n\a	n\a	8	04-07-06
Max Defl.	0.054"	n\a	n\a	6	04-07-06
Span / Depth	8.1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	4-3/8" x 3-1/2"	1,765 lbs	27.0%	9.4%	Unspecified
B2	Wall/Plate	2-3/4" x 3-1/2"	3,261 lbs	79.3%	27.8%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria. Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

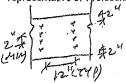
BC CALC® analysis is based on Canadian Limit States Design, as per NBCG 2010 and CSA 086.

Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Concentrated side-load exceeds allowable magnitude for connection design. Please consult a technical representative or Professional Engineer for the design of the connection. OIL WILL MATURE + BOLEING



PROVIDE4 ROWS OF 3-1/2" ARDOX SPIRAL NAILS @ 12_ " O/C FOR MULTI-PLY NAILING. MAINTAIN A MIN. 2-"LUMBER EDGE / END DISTANCE. DO NOT USE AIR NAILS.

OWG NO. TAN 8606-18 H STRUCTURAL COMPONENT ONLY

Use of the Bolse Cascade Software Is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of Input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Instaliation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® , BC RIM BOARD™, BCI® , BOISE GLULAM™, BC FloorValue® , VERSA-LAM®, VERSA-RIM PLUS®,

T. UN1605





PASSED

1st Floor\Flush Beams\B18(i730)

BC CALC® Member Report

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

July 4, 2018 08:15:31

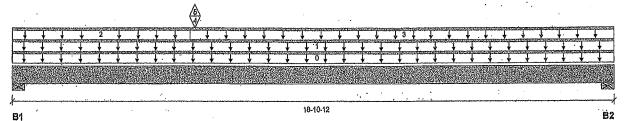
File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

Description: 1st Floor\Flush Beams\B18(i730).

Specifier: Designer:

Company:



Total Horizontal Product Length = 18-10-12

Reaction Summary (Down / Uplift) (lbs)

I rought bil did!	the street of the second wh	, , , , , , , , , , , , , , , , , , ,	
Bearing	Live	Dead	Snow
B1, 4-3/8"	1,376 / 1	853 / 0	
B2 4-3/8"	775 / 0	522 / 0	

Į	_08	nd Summary			•		•.	Live	Dead	Snow	Wind	Tributary
	ľag		Load Type	Ref.	Start	End	· Loc.	1.00	0.65	1.00	1.15	
7)	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	18-10-12	Top		12		,_,,	00-00-00
1	1	FC4 Floor Material	Unf, Lin, (lb/ft)	L.	00-00-00	18-10-12	Top	17	9			n\a
. 2	2	FG4 Floor Material	Unf, Lin, (lb/ft)	L.	00-00-00	05-06-06	Top	6	3			n\a
3	3.	FC4 Floor Material	Unf, Lln. (lb/ft)	L	05-06-06	18-10-12	Тор	17.	9			n\a
4	1	B19(1721)	Conc. Pt. (lbs)	L	05-08-02	05-08-02	Top	1,568	856			n\a
E	5	B19(1721)	Conc. Pt. (lbs)	L	05-08-02	05-08-02	Top	-1				n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	15,798 ft-lbs	35,392 ft-lbs	44.6%	1	05-08-02
End Shear	3,044 lbs	14,464 lbs	21.0%	1	01-04-04
Total Load Deflection	L/375 (0.585")	n\a	64.0%	6	08-09-15
Live Load Deflection	L/608 (0.361")	n\a	59.2%	8	08-07-12
Max Defl.	0.585"	n\a	n\a	6	. 08-09-15
Span / Depth	18.5	• .			

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1.	Wall/Plate	4-3/8" x 3-1/2"	3,130 lbs	47.9%	16,8%	Unspecified
B2	Wall/Plate	4-3/8" x 3-1/2"	1.816 lbs	27.8%	9.7%	Unspecified



Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

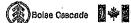
CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

> DWG NO. FAM 8607-18 H STRUGTURAL COMPONENT ONLY

To Uhi406



Passed

July 4, 2018 08:15:31

1st Floor\Flush Beams\B18(i730)

BC CALC® Member Report

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer:

Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl File name:

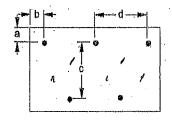
Description: 1st Floor\Flush Beams\B18(i730)

Specifier:

Designer:

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7-7/8" d=20 12"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Nalls Connectors are: '

3-1/2" ARDOX SPIRAL



Disclosure

Use of the Bolse Cascade Software Is Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EUi.A). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building gode-accepted design building code-accepted design properties and analysis methods, installation of Bolse Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before Installation.

BWENS. FAM 6607 11 BC CALCO, BC FRAMERO, AJSM, ALLJOISTO, BC RIM BOARDM, BCIO, BOISE GLULAMM, BC FloorValueO, COMMONNEY ONLY OF STRUCTURE OF STRUCTU COMPONENT ONLY

VERSA-LAM®, VERSA-RIM PLUS®,

To (Su6066)





1st Floor\Flush Beams\B19(i721)

BC CALC® Member Report

Dry | 1 span | No cant,

July 4, 2018 08:15:31

Build 6475

Job name: -

Address:

City, Province, Postal Code: BRA...ON

Customer: Code reports:

CCMC 12472-R

File name:

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

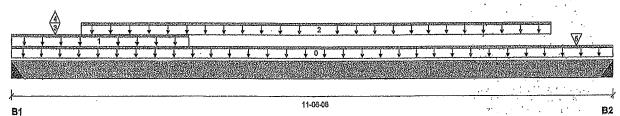
Description: 1st Floor\Flush Beams\B19(I721)

W\nd

Specifier:

Designer:

Company:



Total Horizontal Product Length = 11-06-08

Snow

Reaction Summary (Down / Uplift) (lbs)
Bearing Live Dead Bearing Dead B1, 2" B2, 2" 1,950 / 11 1,042 / 0 1,565 / 1 854/0

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1,00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-06-08	Тор		12			00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	03-04-04	Top	240	120			n\a
2	Smoothed Load	Unf, Lin, (lb/ft)	L,	01-04-00	10-04-00	Тор	267	134			n\a
3	J1(i617)	Conc. Pt. (lbs)	L,	00-10-00	00-10-00	Top	59	24	٠.		n\a
4	J1(1617)	Conc. Pt. (lbs)	L	00-10-00	00-10-00	Top	-12				n\a
5	J1(l601)	Conc. Pt. (lbs)	L	10-10-00	10-10-00	Тор	248	124			nla

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	10,581 ft-lbs	35,392 ft-lbs	29.9%	1	05-10-00
End Shear	3,581 lbs	14,464 lbs	24.8%	. 1	01-01-14
Total Load Deflection	L/759 (0.179")	n\a	31.6%	6	05-07-00
Live Load Deflection	L/999 (0.116")	n\a	n\a	8	05-07-00
Max Defl.	0.179"	n\a .	n\a	. 6	.05-07-00
Span / Depth	11.5				

Bearing Supports Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1 Hanger 2" x 3-1/2"	4,227 lbs	n\a	49.5%	HGUS410
B2 Hanger 2" x 3-1/2"	3,415 lbs	n\a ∙	40.0%	HGUS410

Cautions

Header for the hanger HGUS410 at B1 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF. Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Header for the hanger HGUS410 at B2 is a Double 1-3/4" x 11-7/8" VERSA-LAM® 1.7 2400 DF.

STRUCTURAL COMPONENT ONLY

T-181407





PASSED

1st Floor\Flush Beams\B19(i721)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:15:31

Bulld 6475

Job name;

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl Description: 1st Floor\Flush Beams\B19(1721)

Address:

City, Province, Postal Code: BRA...ON

Specifier:

File name:

Customer: Code reports:

CCMC 12472-R

Designer:

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria,

Calculations assume member is fully braced:

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86,

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

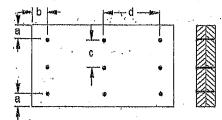
CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads,

please consult a technical representative or professional of Record.

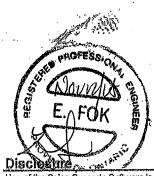
Connection Diagram: Full Length of Member



a minimum = 2" b minimum ≈ 3" d = 1000

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d 💜 Nalls



Use of the Boise Cascade Software Is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application, The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DWANG. TAM 860818H STRUCTURAL COMPONENT ONLY

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® , BC RIM BOARD™, BCI® , BOISE GLULAM™, BC FloorValue® , VERSA-LAM®, VERSA-RIM PLUS®,

T-Ch(Q07(1)





PASSED

July 4, 2018 08:15:31

1st Floor\Flush Beams\B20(i474)

BC CALC® Member Report

Build 6475

Job name:

Address:

City, Province, Postal Code: BRA...ON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl File name:

Description:

1st Floor\Flush Beams\B20(i474)

Wind

Specifier: Designer:

AJ

Company:

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4	Sasilianisassavara	en ane arres	and the same	6262802	estes ser	1900 SV				43140		207557														(2

Total Horizontal Product Length = 10-05-02

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 2-3/4"	441 / 0	283/0	
B2. 4-3/8"	434 / 0	281 / 0	

Lo	ad Summary							Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type .	Ref.	Start	End	Loc.		1.00	0.65	1.00	1.15	
0	Self-Welght	Unf. Lin. (lb/ft)	L	00-00-00	10-05-02	Тор			12			00-00-00
1	FC4 Floor Material	Unf. Lin. (lb/ft)	., r	00-00-00	10-05-02	Top		30	15			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	l.,	03-07-04	07-07-04	Top		61	31	•		n∖a
3	J6(1655)	Conc. Pt. (lbs)	L.	01-02-04	01-02-04	Тор		74	37			n\a
4	J5(I547)	Conc. Pt. (lbs)	L	02-00-12	02-00-12	Top	- 1	55	27	• .		n\a
6	J4(1550)	Conc. Pt. (lbs)	L.	02-11-04	02-11-04	Тор		67	34	•		n\a
6	J4(1667)	Conc. Pt. (lbs)	L	08-03-04	08-03-04	Тор		62	31			n\a
7	J5(l548)	Conc. Pt. (lbs)	L.	08-11-12	08-11-12	Тор	1	65	32			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2,580 ft-lbs	35,392 ft-lbs .	. 7.3%	. 1	05-05-04
End Shear	915 lbs	14,464 lbs	6.3%	1 .	01-02-10
Total Load Deflection	L/999 (0.034")	n\a	. n\a	. 4.	05-01-04
Live Load Deflection	L/999 (0.021")	n\a	n\a	5	05-01-04
Max Defl.	0.034"	n \ a	n\a	4	05-01-04
Span / Depth	10.1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material '
B1 ·	Wall/Plate	2-3/4" x 3-1/2"	1,015 lbs	24.7%	8.6%	Unspecified
B2	Wall/Plate	4-3/8" x 3-1/2"	1,001 lbs	15.3%	5.4%	Unspecified



Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

DWO NO. TAM 860918 H STRUCTURAL 164 COMPONENT ONLY

T. Gulfof





PASSED

1st Floor\Flush Beams\B20(i474)

BC CALC® Member Report

Bulld 6475

Job name:

Address:

Customer: Code reports:

City, Province, Postal Code: BRA...ON

CCMC 12472-R

Dry | 1 span | No cant.

July 4, 2018 08:15:31

UNIT 2301 EL-A,B,C S...N FOYER&LAUNDRY.mmdl

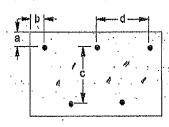
File name:

Description: 1st Floor\Flush Beams\B20(i474)

Specifier:

Designer: AJ Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c=7-7/8"12 d = 🕮

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are: 1

3-1/2" ARDOX SPIRAL

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BWB NO. TAN 8609-1814 STRUCTURAL COMPONENT ONLY

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® , BC RIM BOARD™, BCI® , BOISE GLULAM™, BC FloorValue® , VERSA-LAM®, VERSA-RIM PLUS® ,

T-1/11/20/61





PASSED

July 4, 2018 08:18:23

Basment\Fiush Beams\B5A(i1025)

BC CALC® Member Report

Build 6475

Job name:

Address: City, Province, Postal Code: BRA...ON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

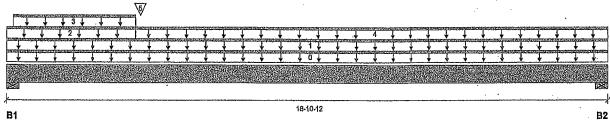
UNIT 2301 EL-A,B,C SUNKEN FOYER.mmdl File name:

Description: Basment\Flush Beams\B5A(i1025)

Specifier: AJ

Designer: Company:

Wind



Total Horizontal Product Length = 18-10-12

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead 1,183 / 0 B1, 2-3/8" 947/0 B2, 2-3/8" 593/0 445/0

Lo	ad Summary				<i>:</i>	:	Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	 1,00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	18-10-12	Тор	 	12	,		00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	18-10-12	Top	21	10			n∖a
2	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	04-00-06	Top	 6	3			n\a
3	User Load	Unf. Lln. (lb/ft)	L	00-02-06	04-00-06	Тор		60			n\a
· 4	FC3 Floor Material	Unf. Lin. (lb/ft)	L	04-00-06	18-10-12	Top	17	9			n\a
5	B6(I1016)	Conc. Pt. (lbs)	L	04-02-02	04-02-02	Top	1,105	599			n\a

	•	Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	10,737 ft-lbs	35,392 ft-lbs	30.3%	1	04-02-02
End Shear	2,798 lbs	14,464 lbs	19.3%	1	01-02-04
Total Load Deflection.	L/493 (0.453").	n\a	48.7%	4	08-09-15
Live Load Deflection	L/846 (0,264")	n\a	42.5%	5	08-09-15
Max Defl.	0.453"	n\a	n\a	4 .	. 08-09-15
Span / Depth	18.8				

Bearing	ı Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	2-3/8" x 3-1/2"	2,958 lbs	66.6%	29.2%	Unspecified
B2	Wall/Plate	2-3/8" x 3-1/2"	1,446 lbs	32.6%	14.3%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads,

please consult a technical representative or professional of Record.

BWO NO. TAM 8610-18H STRUCTURAL P614 COMPONENT OKLY

T-1811609



PASSED

Basment\Flush Beams\B5A(i1025)

BC CALC® Member Report

Bulld 6475

Dry | 1 span | No cant.

July 4, 2018 08:18:23

Job name:

Address:

City, Province, Postal Code: BRA...ON

UNIT 2301 EL-A,B,C SUNKEN FOYER.mmdl

Description: Basment\Flush Beams\B6A(i1025)

Specifier:

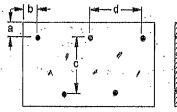
Designer:

Customer: Code reports:

CCMC 12472-R

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum ≈ 3"

c = 7-7/8" d= 124

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Connectors are: Nalls A

3-1/2" ARDOX SPIRAL

Disclosure

Use of the Bolse Cascade Software Is subject to the terms of the End User License Agreement (EULA).
Completeness and accuracy of Input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Bolse Cascade engineered wood products must be in subject to the terms of the End User engineered wood products must be in accordance with current installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

DWG NO . TAMBO O - 18 HBC CALCO, BC FRAMERO, AJSM, STRUCTURAL COMPONENT ONLY

ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS® .





PASSED

Basment\Flush Beams\B7A(1971)

BC CALC® Member Report

Dry | 1 span | No cant.

July 4, 2018 08:18:23

Build 6475

Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: BRA...ON

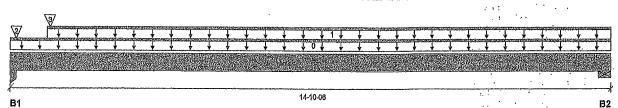
File name: Description:

UNIT 2301 EL-A,B,C SUNKEN FOYER.mmdl

Basment\Flush Beams\B7A(i971)

Specifier: Designer:

CCMC 12472-R Company:



Total Horizontal Product Length = 14-10-08

Reaction Summary (Down / Unlift) (lbs)

I KONDHOH GHI	THE LITTER OF A PROPERTY OF INC.	and (ina)		
Bearing	Live	Dead	Snow	Wind
B1, 3-1/2"	1,674 / 0	1,073 / 0		
B2, 2-3/8"	166 / 0	178 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	g Description	Load Type	Ret	. Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-10-06	Тор		12			00-00-00
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-11-00	14-10-06	Top	20	10			n\a
2	B6(l1016)	· Conc. Pt. (lbs)	L	00-01-12	00-01-12	Top	1,193	642			n\à
3	B8(i979)	Conc. Pt. (lbs)	L	00-11-14	00-11-14	Тор	359	285			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1,869 ft-lbs	35,392 ft-lbs	5.3%	1	06-08-07
End Shear	971 lbs	14,464 lbs	6.7%	1	01-03-06
Total Load Deflection	L/999 (0.054")	n\a	n\a	4	07-03-07
Live Load Deflection	L/999 (0.027")	n\a	n\a	5	07-03-07
Mex Defi.	0.054"	n\a .	n\a	, . 4.	07-03-07
Span / Depth	14,7	reconstruction of the second	* ***		

Bearing	Supports	Dim. (LxW)	Demand	Resistance Support	Resistance Member	Material
B1	Column	3-1/2" x 3-1/2"	3,853 lbs	38.7%	25.8%	Unspecified /
B2	Wall/Plate	2-3/8" x 3-1/2"	472 lbs	10.6%	4.7%	Unspecified
	5.0		•			•

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

CONFORMS TO OBC 2012

Importance Factor: Normal Part code: Part 9

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

OWO NO. TAN 8611-184 STRUCTURAL COMPONENT

T- Ch140





PASSED

July 4, 2018 08:18:23

Basment\Flush Beams\B7A(j971)

BC CALC® Member Report Build 6475

Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: BRA...ON

CCMC 12472-R

Dry | 1 span | No cant.

UNIT 2301 EL-A,B,C SUNKEN FOYER.mmdl

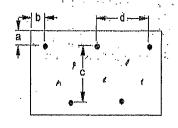
File name: Description: Basment\Flush Beams\B7A(i971)

Specifier:

Designer:

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7-7/8" 41 d = 620 6

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are:

3-1/2" ARDOX SPIRAL

Dischosure mine

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building oode-accepted design building code-accepted design properties and analysis methods. installation of Bolse Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain installation Guide or ask questions, please call (800)232-0788 before installation.

component only

RWENG. TAM B6U-1 & BC CALCO, BC FRAMER®, AJSTM, STRUCTURAL BOISE GLULAMM, BC FloorValue®, VERSA-LAMB, VERSA-RIM PLUS®,

T- Gulfiely



PASSED

1st Floor\Flush Beams\B20(i1354)

BC CALC® Member Report

Dry | 1 span | No cant.

April 4, 2019 11:43:02

Build 6766

Job name:

Address:

City, Province, Postal Code: BRA...ON

Description: 1st Floor\Flush Beams\B20(i1354)

Specifier:

File name:

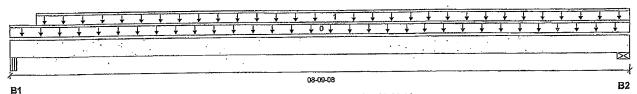
Designer: AJ

UNIT 2301 STD EL-D.mmdl

Customer: Code reports:

CCMC 12472-R

Company:



Total Horizontal Product Length = 08-09-08

/ Unliff) (lhe)

Reaction Suit	Illiary (Down / D)	pility (ina)			
Bearing	Live	Dead	Snow	Wind	
B1, 4-1/2"	478 / 0	291 / 0			÷ ÷
B2. 5-1/2"	536 / 0	322 / 0			

100	d Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-09-08	Top		12			00-00-00
1	FLOOR	Unf. Lin. (lb/ft)	L.	00-04-08	08-09-08	Top	120	60			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2,205 ft-lbs	24,783 ft-lbs	8.9%	1 -	04-04-04
End Shear	807 lbs	14,464 lbs	5.6%	1	01-04-06
Total Load Deflection	L/999 (0.019")	n\a	n\a	4	04-04-04
Live Load Deflection	L/999 (0.012")	n\a	nla	5	04-04-04
Max Defl.	0.019"	n\a	n\a	4	04-04-04
Span / Depth	8.2				

		4		Demand/ Resistance	Demand/ Resistance		
Bearing	Supports	Dim. (LxW)	Demand	Support	Member	Material	
B1	Beam	4-1/2" x 3-1/2"	1,080 lbs	12.8%	5.6%	Unspecified	
B2	Wall/Plate	5-1/2" x 3-1/2"	1,207 lbs	11.7%	5.1%	Unspecified	

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume unbraced length of Top: 07-11-08, Bottom: 07-11-08.

Resistance Factor phi has been applied to all presented results per CSA 086.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

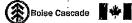
Member has no side loads.

Nail one ply to another with

3 ½'' spiral nails @ (2リ)

o.c, staggered in 2 rows







PASSED

April 4, 2019 11:43:48

1st Floor\Flush Beams\B22(i1275)

BC CALC® Member Report

Build 6766

Job name: Address:

Customer:

Code reports:

City, Province, Postal Code: BRA...ON

CCMC 12472-R

Dry | 1 span | No cant.

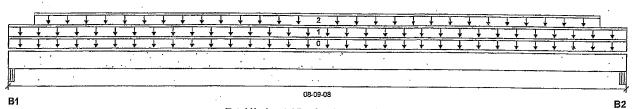
File name: UNIT 2301 STD EL-C.mmdl

Description: 1st Floor\Flush Beams\B22(i1275)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 08-09-08

Reaction Summary (Down / Uplift) (lbs)

Bearing B1, 4-1/2" 596 / 0 351/0 B2, 4-1/2" 596 / 0 351/0

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
O	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-09-08	Top		12			00-00-00
1	FC4 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	08-09-08	Тор	26	13			n/a
2	FLOOR	Unf. Lin. (lb/ft)	L.	00-04-08	08-05-00	Top	120	60			n\a
		, ,				•					III

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2,708 ft-lbs	35,392 ft-lbs	7.7%	1	04-04-12
End Shear	985 lbs	14,464 lbs	6.8%	1	01-04-06
Total Load Deflection	L/999 (0.024")	n\a	n\a	4	04-04-12
Live Load Deflection	L/999 (0.015")	n\a	n\a	5	04-04~12
Max Defl.	0.024"	n\a	n\a	4	04-04-12
Span / Depth	8.3				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Waterial
B1	Beam	4-1/2" x 3-1/2"	1,333 lbs	15.8%	6.9%	Unspecified
B2	Beam	4-1/2" x 3-1/2"	1,333 lbs	15.8%	6.9%	Unspecified

Notes.

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Member has no side loads.

Nail one ply to another with

3 ½" spiral nails @ 【Zゾ

o.c, staggered in 2 rows













designation			Ba	are .		Í	1/2" Gyr	sum Ceiling	
	Cados.		On Centr	e Spacing		1		tre Spacing ·	
Depth	Series .	12"	16"	19.2"	24"	12"	16 ¹¹	19.2"	24 ^{tr}
	NI-20	15'-10"	15'-0"	14'-5"	13'-5"	· 16'-4"	15'5"	14'-6"	13'-5"
	NI-20 NI-40x	171-011	16'-0"	15'-5"	14'-9"	17'-5"	16'-5"	15'-10"	15'-2"
	•	17'-2"	16'-2"	15'-7"	14'-11"	17'-6"	16'-7"	15'-11"	15'-3"
9-1/2"	NI-60	18'-0"	16'-11"	16'-3"	15'-7"	18'-5"	17'-3"	16 ^r -7"	15'-11"
	NI-70	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17 ¹ 5"	16'-9"	16'-1"
	NI-80	17'-10"	16'-10"	16'-2"	15'-6"	18'-6"	17'4"	16'-9"	16'-1"
	NI-20	19'-4"	17'-11"	17'-3"	16¹-6"	19'-11"	18¹.6"	17'-9"	17'-0"
	NI-40x	19'-7"	18'-2"	17'-5"	16'-9"	20'-2"	18 ¹ .9"	17'-11"	17 ^r -2 ⁿ
11-7/8"	NI-60	20'-9"	19'-2"	18'-3"	17'-5"	21-4"	19¹-9°	18'-10"	17°-£0°
11-//0	NI-70	21'-1"	19'-5"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-80	21'-8"	20'-0"	19'-1"	18'-0"	22'-2"	20'-6"	19¹-6"	18'-6"
	NI-90x	21'-5"	19'-10"	18'-11"	17'-11"	22'-1"	20'-6"	19'-7"	18°-7"
	NI-40x	21'-10"	20*-2"	19'-3"	18¹-2"	22'-5"	20'-10"	19"-11"	18'-10"
	NI-60	23'-0"	21'-3"	20'-3"	19'-2"	231-811	21-11"	20'-10"	19-9"
14"	NI-70	23'-5"	21'-7"	20"-7"	19'-5"	24'-0"	22'-3"	215-216	26'-0"
	MI-80	25-5 24'-1"	22'-3"	21-2"	20'-0"	2458°	22 ¹ -10 ¹¹	21°-9"	20°-7"
	NI-90x	23"-9"	22'-0"	20'-£1'r	19-10-	24°-6"	22'-9"	21°-8°	20'-6"
	NI-60	25*5 25*-1"	231-2"	22'-0"	20°-10°	25*-9"	23'-10"	22'-9"	21'-6"
4 =11	NI-70	25*-£ 25*-6**	23'-6"	22¹-4"	21-2"	26-1"	24*2"	23'-1"	21'-10"
1.6"	NI-80	25-0 26-4"	24'-3"	23'-1"	21'-10"	26'-11"	24-11"	23'-8"	22'-5"
	NI-90x	20-4				<u> </u>			44 1

			Mid-Span	Blocking		-Mid-9	pan Blocking a	nd 1/2" Gypsum	Ceiling
	Series		On Centre		On Centre Spacing				
Depth	Delles .	12"	16"t	19.2"	24"	12"	16"	19.2"	24"
	NI-20	16'-10"	15'-5"	14'-6"	13'-5"	16'-10"	15'-5"	14'-6"	13'-5"
		18'-8"	17'-2"	16'-3"	15'-2"	18'-10"	17'-2"	16'-3"	15'-2"
	NI-40x	18'-11"	17'-6"	16'-6"	15'-5"	19'-2"	17'-6°	16'-6"	15'-5"
9-1/2°	NI-60	20'-0"	18'-7"	17'-9"	16'-7"	20'-5"	18'-11"	17¹-10°	16'-7"
	NI-70	20'-3"	18'-10"	17'-11"	16'-10"	20'-8"	19'-3"	18'-2"	16'-10"
	NI-80	20'-1"	1.81-5"	17'-5"	16'-2"	20'-1"	18'-5"	17'-5"	16'-2"
	NI-20	21'-10"	20'-4"	19'-4"	17'-8"	22'-5"	20'-6"	19'-4"	17'-8"
	NI-40x	22'-1"	20'-7"	39°-7"	18 ⁷ -4"	22'-8"	20'-10"	19'-8"	18'-4"
11-7/8"	NI-60	23'-4"	21'-8"	20!-8"	19'-7"	23'-10"	22'-3"	21'-2"	19'-9"
11-110	NI-70	23'-7"	21'-11"	20'-11"	19'-9"	24'-1" ·	22'-6"	21'-5"	20'-D"
	NI-80	241-3"	22'-6"	21'-6"	20¹-4"	24'-8"	23'-0"	22'-0"	20'-9"
	NI-90x	24'-5"	22'-9"	21'-8"	19'-5"	25'-1"	23'-2"	21'-9"	19'-5"
	NI-40x	24'-10"	23'-1"	22'-0"	20'-;10"	25'-6"	23'-8"	22'-4"	20'-10"
	NI-60	26'-1"	24'-3"	23'-2"	21'-10"	26'-8"	24'-11"	6" 19.2" 5" 14'-6" 12' 16'-3" 6" 16-6" 11' 17'-10" 3" 18'-2" 17'-5" 6" 19'-4" 10" 19'-8" 3" 21'-2" 6" 22'-0" 2" 21'-9" 21'-9" 21'-9" 24'-1" 11" 24'-8" 24'-8" 4" 26'-1"	22'-4"
14"	NI-70	26'-6"	24'-7"	23'-5"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-80	. 27'-3"	25'-4"	24'-1"	22'-9"	27'-9"	25'-11"	24'-8"	23'-4"
	NI-90x	27'-3"	25'-5"	24'-2"	22'-10"	28'-0"	26'-2"	24'-9"	23'-1"
	NI-60	28'-8"	26'-8"	25'-4"	23'-11"	29'-3"	27'-4"	26'-1"	24'-8"
16°	NI-70 `	29'-1"	27'-0"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
ŤΘ	MI-80	29'-11"	27'-10"	26'-6"	25'-0"	30'-6"	28'-5"	27'-2"	25'-8"
	NI-90x								

^{1.} Maximum clear span applicable to simple-span residential floor construction with a design live load of 40 psf and dead load of 15 psf. The 1. Maximum clear span approache to simple span about 1. Maximum clear span and used load of 15 psf. The ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, ultimate limit states are based on the factored loads of 1.50L+1.25D. The serviceability limit states include the consideration for floor vibration, under the consideration limit of 1.74D. unumate unit of L/480 and a total load deflection limit of L/240.

a live joad denection minion of 1900 silve from with glued-nailed oriented strand board (OSB) sheathing with a minimum thickness of 3/4 inch for a joist 2. Spans are based on a composite floor may include 1/2 inch group calling and/or one row of blocking and the composite floor may include 1/2 inch group calling and/or one row of blocking and the composite floor may include 1/2 inch group calling and/or one row of blocking and the composite floor may include 1/2 inch group calling and/or one row of blocking and the composite floor may include 1/2 inch group calling and/or one row of blocking and the composite floor may include 1/2 inch group calling and the composite floor may inc 2. Spans are based on a composite nous with grace-trained oriented stratic board (USB) sneathing with a minimum thickness of 3/4 inch for a justice of 24 inches or less. The composite floor may include 1/2 inch gypsum celling and/or one row of blocking at mid-span with strapping. Strapping shall be minimum 1x4 inch strap applied to underside of joists at blocking line or 1/2 inch gypsum celling attached to joists. Strapping shall be minimum 1x4 inch strap applied to underside of joists at blocking line or 1/2 inch gypsum celling attached to joists. 3. Minimum bearing length shall be 1-3/4 inches for the end bearings.

^{3.} Minimum bearing tength shall be 1-3/4 inches for the end pearings.
4. Bearing stiffeners are not required when I-joists are used with the spans and spacings given in this table, except as required for hangers.
5. This span chart is based on uniform loads. For applications with other than uniformly distributed loads, an engineering analysis may be required based on the use of the design properties. Tables are based on Limit States Design per CSA 086-09, NBC 2010, and OBC 2012.

based on the use of the usage properties. Noted and solution and continuously along the compression edge. Refer to technical documentation for installation 6. Joists shall be laterally supported at supports and continuously along the compression edge. Refer to technical documentation for installation 6. Joists shall be later any supported at support the distribution for compression report 13032-R and APA Product Report PR-L274C, guidelines and construction details. Nordic I-joists are listed in CCMC evaluation report 13032-R and APA Product Report PR-L274C.



Maximum Floor Spans







			Ba	are	1/2" Gypsum Ceiling						
Depth	Series		1-1"				On Centre Spacing				
ըւթյու	02	12"		19.2"		12"	16 ¹¹		24"		
	NI-20	15'-1"		13'-3"		15'-7"	14'-1"	13'-3"	N/A		
•	NI-40x	16'-1"		14 '- 8"		16'-7"	15'-7"	In Centre Spacing 19.2"	N/A		
9-1/2"	NI-60	16'-3"	15'-4"	14'-10"		16'-8"	On Centre Spacing 16" 19.2" 14'-1" 13'-5" 15'-7" 15'-4" 16'-5" 16'-0" 16'-6" 16'-0" 17'-6" 16'-11" 17'-8" 17'-1" 18'-7" 17'-1" 18'-7" 17'-1" 18'-7" 18'-5" 19'-4" 18'-6" 19'-4" 18'-6" 20'-7" 18'-9" 20'-7" 19'-8" 20'-6" 21'-5" 20'-6" - 21'-5" 20'-6" 22'-5" 21'-5" 22'-10" 21'-9"	15!-3"	N/A		
9-1/4	NI-70	17'-1"	16'-1"	15'-6"	N/A	17'-5"	16'-5"	15'-10"	N/A		
	NI-80	17'-3"	16'-3"	15'-8"	N/A	17'-8"	16'-7"	ntre Spacing 19.2" 13-3-" 15-4" 15-40" 16-0" 16-11" 17-4" 17-9" 17-41" 18-6" 18-6" 18-6" 20-6" 20-6" 21-5" 21-5"	N/A		
	NI-20	16'-11"	16'-0"	15'-5"		17'-6"	16'-6"	16'-0"	N/A		
	NI-40x	18'-1"	17'-0"	16'-5"		18'-9"	17'-6"	On centre Spacing 16" 19.2" 14'-1" 13'-3" 15'-7" 15'-10" 16'-5" 15'-40" 16'-6" 16'-0" 17'-6" 16'-11" 17'-8" 17'-1" 18'-7" 17'-1" 18'-7" 17'-2" 18'-7" 18'-9" 19'-4" 18'-6" 19'-4" 18'-6" 19'-5" 20'-6" 12'-5" 20'-6" 12'-5" 20'-6"	N/A		
	NI-60	18'-4"	17'-3"	16¹-7"		19'-0"	On Centre Spacing 16" 19.2" 14'-1" 13'-3" 15'-7" 15'-1" 15'-9" 15'-10" 16'-5" 16'-10" 16'-6" 16'-0" 17'-6" 16'-11" 17'-8" 17'-1" 18'-7" 17'-9" 18'-10" 17'-41" 19'-2" 18'-5" 19'-4" 18'-5" 19'-4" 18'-5" 20'-7" 19'-6" 21'-5" 20'-6" 21'-5" 20'-6" 22'-5" 21'-5" 22'-10" 21'-9"	N/A.			
11-7/8"	NI-70	19'-6"	18'-0"	17'-4"		20'-1"	18'-7"	On Centre Spacing (6" 19.2" -1" 13-3" -5" 15-40" -5" 16-0" -6" 16-0" -6" 16-11" 8" 17-11" 17-9" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 18-5" 20-6" 5" 20-6" 5" 20-6" 5" 21-5" 10" 21-9"	N/A		
	NI-80	19'-9"	18'-3"	17'-6"		20'-4"	18'-10"		N/A		
	NI-90x	20'-4"		17'-11"		20'-10"	19'-3"		N/A		
	NI-40x	20'-1"		17'-10"		20'-10"	19'-4"		N/A		
	NI-60	20'-5"		18'-1"			19-7"		N/A		
14 ⁿ	NI-70	21'-7"		191-1"			20'-7"	19 ⁻ 8 ⁱⁱ	N/A		
14	NI-80	21'-11"		19 ^c 4 ⁿ			20-11	20¹-0"	N/A		
	NI-90x	22'-7"		19¹-11¹²			21'-6"	On Centre Spacing 16" 19.2" 14'-1" 13'-3" 15'-7" 15'-4" 15'-9" 15'-40" 16'-6" 16'-0" 16'-6" 16'-11" 7'-6" 16'-11" 8'-10" 17'-41" 8'-10" 17'-41" 9'-3" 18'-5" 9'-4" 18'-6" 9'-7" 18'-9" 15'-8" 20'-6" 15'-8" 20'-6" 1'-5" 20'-6" 2'-5" 20'-6"	N/A		
	NI-60	22'-3"		19'-9"			-	On Centre Spacing 16" 19.2" 11" 13'-3" 15'-11" 9" 15'-10" 5" 15'-10" 6" 16'-0" 6" 16'-11" 8" 17'-1" 17'-9" 10" 17'-11" 3" 18'-9" 18'-9" 18'-9" 19'-5" 20'-6" 5" 20'-6" 5" 21'-5" 10" 21'-5"	N/A		
	NI-70	23'-6"		20°-9"	On Centre Spacing 24" 12" 16" 19.2	21 ^r -5"	N/A:				
16"	NI-80	231-11"		21-1"		21-9"	N/A				
•	NI-90x	24'-8"	22'-9"	21 ^r -9 ^{tr}	N/A	1 25°-4"	23"-5"	22'-4"	N/A		

		Mid-Span Blocking				Mid-Span Blockingand 1/2" Gypsum Ceiling				
	Series		On Centro		On Centre Spacing					
Depth	JC11C3	22"	16 ¹¹	19.2"	24"	1211	16 ⁱⁱ	19.2"	24"	
	₹NI-20	151-7"	14'-1"	13'-3"	N/A	15'-7"	14'-1"	13'-3"	N/A	
	.M-20 NI-40x	17'-9"	16¹-1"	15'-1"	N/A	17'-9"	16'-1"	15'-1"	N/A	
0 4 fall	NI-60	18'-1"	16 ⁻ -4"	15'-4"	N/A	18'-1"	16'-4"	entre Spacing 19.2"	N/A	
9-1/2"	NI-70	19'-2"	17'-10"	16'-9"	N/À	191-7"	17'-10"		N/A	
	NI-80	19'-5"	18'-0"	17'-1"	N/A	19'-10"	18'-3"		N/A	
	NI-20	18'-9"	1.7'-0"	16'-0"	N/A	18'-9"	17'-0"		N/A	
	NI-40x	21'-0"	19'-3"	17'-9"	N/A	21'-3"	19'-3"	-	N/A	
	NI-40A NI-60	21'-4"	19'-8"	18'-5"	N/A	211-8"	191-8"		N/A	
11-7/8"	NI-70	22'-6"	20'-10"	19'-11"	N/A	23'-0"	21'-4"	antre Spacing 19.2" 13'-3" 15'-4" 15'-4" 16'-9" 17'-1" 16'-0" 17'-9" 18'-5" 20'-5" 21'-2" 19'-6" 21'-9" 22'-9" 23'-2" 23'-4" 25'-6"	N/A	
· ·		22'-9"	21'-1"	20'-1"	N/A	23'-3"	21'-7"		N/A	
	ИI-80	23'-4"	21'-8"	20'-8"	N/A	23 <u>°</u> 10"	22'-2"		N/A	
	NI-90x	23'-7"	21'-5"	19'-6"	N/A	24'-1"	21'-5"		N/A	
	NI-40x	24'-0"	22'-3"	21'-0"	N/A	24'-8"	22'-5"	1 Centre Spading 19.2" 19.2" 18'-3" 15'-4" 0" 16'-9" 17'-4" 16'-0" 17'-9" 18'-5" 20'-5" 20'-5" 21'-2" 19'-6" 21'-0" 22'-9" 23'-2" 23'-2" 25'-6"	N/A	
	NI-60	25'-3"	23'-4"	22'-3"	N/A	25'-10"	24'-0"		N/A	
1 4 11	NI-70	25'-7"	23'-8"	22'-7"	N/A	26'-2"	24'-4"		N/A	
	NI-80	26'-4"	241-411	23'-3"	N/A	26'-10"	24'-11"		N/A	
	NI-90x	26'-5"	24'-6"	23'-4"	N/A	27'-2"	24'-10"		N/A	
	NI-60	27'-9"	251-811	24¹-6"	N/A	28'-5"	26'-5"		N/A	
16"	. NI-70	28'-2"	26'-1"	24'-10"	N/A	28'-10"	26'-9"		N/A	
	NI-80	29'-0".	26¹-10"	25'-7"	N/A	291-711	271-5"	-		
	NI-90x.	23-0,						40-2	N/A	

^{1.} Maximum clear span applicable to simple-span residential floor construction with a design live load of 40 psf and dead load of 30 psf. The L. Maximum clear span applicable to ampression residence more construction with a design live load of 40 psf and dead load of 30 psf. The ultimate limit states are based on the factored loads of 1.50L + 1.25D. The serviceability limit states include the consideration for floor vibration, a live load deflection limit of 1/480 and a total load deflection limit of 1/240.

a live load detiection timit of 1/400 and a total road detined oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a joist 2. Spans are based on a composite floor with glued-nailed oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a joist 2. Spans are based on a composite floor with glued-nailed oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a joist spanling of 1/2 inches or less. The composite floor may include 1/2 inch gypsum ceiling and/or one row of blocking at mid-span with strapping, spanling of 19.2 inches or less. The composite floor may include 1/2 inch gypsum ceiling and/or one row of blocking at mid-span with strapping. spacing of 19.2 Inches or less. The composite from the process 42 men grypount countries any or one low or inciding attracted to Joists.

Strapping shall be minimum 1x4 inch strap applied to underside of joists at blocking line or 1/2 inch gypsum ceiling attached to Joists.

Minimum bearing length shall be 1-3/4 inches for the end bearings.

Bearing stiffeners are not required when 1-joists are used with the spans and spacings given in this table, except as required for hangers.

This span chart is based on uniform loads. For applications with other than uniformly distributed loads, an engineering enalysis may be required to the use of the design process.

^{5.} This span chart is based on uniform the states of the design properties. Tables are based on Limit States Design per CSA 086-09, NBC 2010, and OBC 2012.

based on the use of th 6. Joists shall be raterially supported a support and an adjusted in CCMC evaluation report 13032-R and APA Product Report PR-1274C. guidelines and construction details. Nordic I-joists are listed in CCMC evaluation report 13032-R and APA Product Report PR-1274C.



Maximum Floor Spans







			В	are			1/2" Gypsum Celling				
n.eth	NI-20 NI-40x NI-60 NI-70 NI-80 NI-20 NI-60 NI-70 NI-80 NI-90x NI-60 NI-90x NI-60 NI-90x NI-60		On Cent	e Spacing	On Centre Spacing						
Depth		12"	16"	19.2"	24 ^u		16"	19.2"	24"		
	NI-20	15'-1"	14'-2"	13'-9"	N/A	- On Centre Spacing 12" 16' 19.2" 15'-7" 14'-8" 14'-2" 16'-7" 15'-7" 15'-1" 16'-8" 15'-9' 15'-3" 17'-5" 16'-5" 15'-10' 17'-8" 16'-7" 16'-6' 18'-9" 17'-6" 16'-6' 16'-0' 18'-9" 17'-6" 16'-11'' 19'-0" 17'-8" 17'-11' 20'-1" 18'-7" 17'-9" 20'-4" 18'-19" 17'-11' 20'-10" 19'-8" 18'-5" 20'-10" 19'-8" 18'-5" 20'-10" 19'-8" 18'-5" 21'-2" 19'-7" 19'-8" 22'-3" 20'-7" 20'-6" 23'-3" 21'-6" 20'-6" 24'-8" 22'-5" 21'-5" 24'-8" 22'-10" 21'-9"	14'-2"	N/A			
		16'-1"	15'-2"	14'-8"	n/a		15'-7"	15'-1"	N/A		
0.4/20	•	16'-3"	15'-4"	14'-10"	n/a			19.2" 14'-2" 15'-1" 15'-1" 15'-10" 16'-0" 16'-11" 17'-1" 17'-11" 18'-5" 18'-6" 18'-9" 19'-8" 20'-6" 20'-6" 21'-5"	N/A		
9-1/4		1.7'-1"	16'-1"	15'-6"	N/A		16'-5"		N/A		
		17'-3"	16'-3"	15'-8"	N/A		16'-7"		N/A		
		16'-11"	16'-0"	15'-5"	N/A		16'6"	16'-0"	N/A		
, , , , , , , , , , , , , , , , , , ,		18'-1"	17'-0"	16'-5"	N/A		17:6"	16'-11'	N/A		
		18'-4"	17'-3"	36'-7"	N/A		17:8"	17 ^r -1 ⁿ	N/A		
11-7/8"		19'-6"	18'-0"	17'-4"	N/A		18'-7"	2entre Spacing 19.2" 14'-2" 15'-1" 15'-1" 15'-10" 16'-0" 16'-11" 17'-9" 17'-11" 18'-5" 18'-6" 19'-8" 20'-6" 20'-6" 21'-5" 21'-9"	N/A		
•		19'-9"	18'-3"	37'-6"	N/A		18'-10'"		N/A		
		20'-4"	18'-9"	17'-11"	N/A		19'3"		N/A		
		20'-1"	18'-7"	17'-10"	N/A			18 ^r -6 ^{rr}	N/A		
	•	20'-5"	18'-11"	18'-1"	N/A	ž		ntre Spacing 19.2" 14'-2" 15'-3" 15'-10" 16'-0" 16'-11" 17'-11" 18'-5" 18'-6" 18'-9" 19'-8" 20'-6" 21'-5" 21'-9"	N/A		
14"		21'-7"	20-0°	19'-1"	N/A		•		N/A		
14		21 ⁻ -11"	20'-3"	19 ^r -4 ⁿ	N/A				N/A		
	• • • •	22 ^t -7 ⁿ	20'-11"	19 ² -11 ⁿ	N/A.	~ 		20°-6°°	N/A		
		22'-3"	20-8"	19'-9"	N/A	L		20'-6"	N/A		
	NI-70	23 ¹ -6"	21 '-9 "	20'-9"	N/A			21'-5"	N/A		
16"	NI-80	23'-11"	22'-1"	21-1"	N/A			6' 19.2" 8' 14'-2" 7' 15'-1" 9' 15'-1" 5' 15'-10" 5' 16'-0" 6' 16'-0" 16'-11'' 1'' 17'-11'' 1'' 18'-5'' 18'-6''' 18'-6''' 19'-8'''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8'''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8''' 19'-8'''' 19'-8''' 19'-8'''' 19'-8'''' 19'-8'''' 19'-8'''' 19'-8''''' 19'-8''''' 19'-8'''''' 19'-8'''''''''''''''''''''''''''''''''''	N/A		
	NI-90x	24°-8"	22'-9"	21'-9"	N/A	25'-4"	23'5"	22'-4"	N/A		

			Mid-Span	Mid-Span Blocking and 1/2" Gypsum Ceiling					
Depth	Series .		On Centre		On Centre Spacing				
	207,00	12"	16"	19.2"	24"	12"	16"	19.2"	24'
	NI-20	16'-8"	15'-3"	14'-5"	N/A	16'-8"	15'-3"	14'-5"	N/A
	NI-40x	17'-11"	. 16'-11"	16'-1"	N/A	18'-5"	17'-1"	16'-1"	N/A
9- <u>1/</u> 2"	NI-60	18'-2"	17'-1"	16'-4"	N/A	18'-7"	17'-4"	On centre Spacing 16" 19,2" 15'-3" 14'-5" 17'-4" 16'-4" 18'-3" 17'-8" 8'-3" 17'-8" 8'-3" 17'-8" 19'-2" 19'-2" 10'-4" 19'-6" 1'-5" 20'-5" 1'-7" 20'-8" 2'-2" 21'-7" 21'-1" 21'-11" 4'-4" 23'-2" 4'-4" 23'-2" 4'-4" 23'-2" 5'-5" 25'-6"	N/A
9-112	NI-70	19'-2"	17'-10"	17'-2"	N/A	19'-7"	18'-3"		'N/A
	NI-80	19'-5"	18'-0"	17'-4"	N/A	19'-10"	18'-5"		N/A
	NI-20	191-611	18'-1"	17'-3"	N/A	19'-11"	" 18 ¹ -3" 17 ¹ -3" 20 ¹ -2" 19 ¹ -2" " 20 ¹ -4" 19 ¹ -6" 21 ¹ -5" 20 ¹ -5"	N/A	
	NI-40x	21'-0"	19'-6"	18'-8"	N/A	21'-7"		19'-2"	N/A
	NI-60	21'-4"	19'-9"	18'-11"	N/A	21'-11"		19 '-6 "	N/A
11-7/8°	NI-70	22'-6"	20'-10"	19'-11"	N/A	23'-0"		5" 17'-8" 3" 17'-3" -2" 19'-2" 4" 19'-6" 5" 20'-5" 7" 20'-8" 2" 21'-2" 7" 21'-7" 11" 21'-11"	N/A
	NI-80	22'-9"	21'-1"	20'-1"	N/A	23'-3"	21'-7"	20'-8"	N/A
	NI-90x	23'-4"	21'-8"	20'-8"	N/A	23'-10"	22'-2"	tre Spacing 19.2" 14'-5" 16'-1" 16'-4" 17'-7" 17'-8" 17'-3" 19'-2" 19'-6" 20'-5" 20'-8" 21'-2" 21'-7" 21'-11" 23'-2" 23'-9" 24'-2" 25'-6"	N/A
	NI-40x	23'-7"	21'-11"	20'-11"	N/A	24'-3"	22'-7"	21'-7"	N/A
	NI-60	24'-0"	22'-3"	21'-3"	N/A	24'-8"	22'-11"	21'-11"	N/A
14"	NI-70	25'-3"	23'-4"	22'-3"	N/A	25'-10"	24'-0"	tre Spacing 19.2" 14'-5" 16'-1" 16'-4" 17'-7" 17'-8" 17'-3" 19'-2" 19'-6" 20'-5" 20'-8" 21'-2" 21'-7" 21'-11" 23'-2" 23'-9" 24'-2" 25'-6"	N/A
T4	MI-80	25'-7"	23'-8"	22'-7"	N/A	26'-2"	24'-4"		N/A
	NI-90x	26'-4"	24'-4"	23'-3"	N/A	26'-10"	24'-11"		N/A
	NI-60	26'-5"	24'-6"	23'-4"	N/A	27'-2"	25'-3"	24'-2"	N/A
	NI-70	27'-9"	25' - 8"	24'-6"	N/A	28'-5"	26'-5"	25'-2"	N/A
16"	NI-80	28'-2"	26'-1"	24'-10"	N/A	28'-10"	26'-9"	25'-6"	N/A
	NI-90x	29'-0"	26'-10"	25'-7"	N/A	29'-7"	27'-5"	26'-2"	N/A

^{1.} Maximum clear span applicable to simple-span residential floor construction with a design live load of 40 psf and dead load of 15 psf. The 1. Maximum crear span approache to simple span reduction into the service ability limit states are based on the factored loads of 1.50L + 1.25D. The serviceability limit states include the consideration for floor vibration, a liveload deflection limit of L/480 and a total load deflection limit of L/240.

a live load deflection limit of 1,700 and a composite floor with glued-halled oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a Joist 2. Spans are based on a composite floor with glued-halled oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a Joist 2. Spans are pased on a composite floor may include 1/2 inch gypsum ceiling and/or one row of blocking at mid-span with strapping, spading of 19.2 inches or less. The composite floor may include 1/2 inch gypsum ceiling and/or one row of blocking at mid-span with strapping, spacing of 19.2 inches or less. The composite nor may inches a 2 men gypoon desimal amore one row or blocking at midspan with s Strapping shall be minimum 1x4 inch strap applied to underside of joists at blocking line or 1/2 inch gypsum ceiling attached to joists. Strapping Strain be minimum 2.54 inches for the end bearings.

3. Minimum bearing length shall be 1-3/4 inches for the end bearings.

^{3.} Minimum deating rengulation as a 37 minimum deating rengular with the spans and spacings given in this table, except as required for hangers.

4. Bearing stiffeners are not required when I-joists are used with the spans and spacings given in this table, except as required for hangers.

^{4.} Bearing stittle it is a remove equited which report of the data with a specific permitted by the strength of the strength o

based on the use of th 6. Joists snail de laterally supported accomposition for guidelines and construction details. Nordic I-joists are listed in CCMC evaluation report 13032-R and APA Product Report PR-L274C, guidelines and construction details.

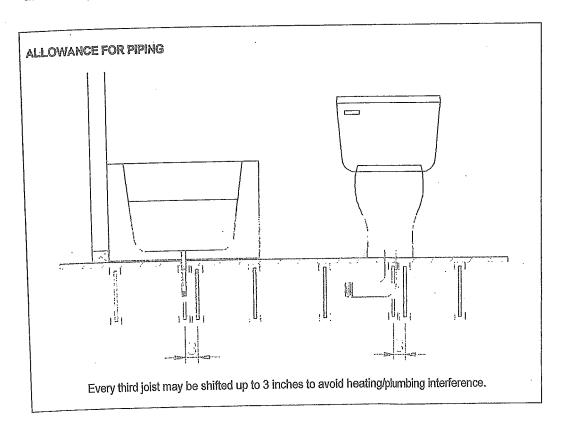


Allowance for Piping (Installation Notes)

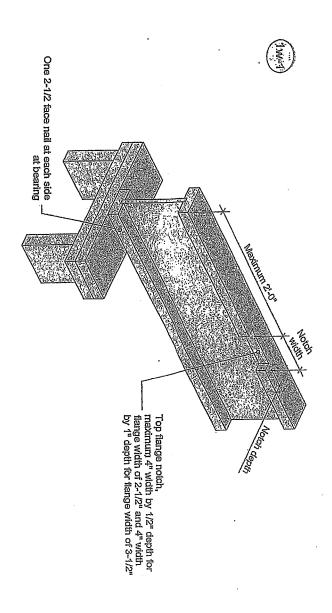
The floor layouts have usually not been checked for heating and/or plumbing interference. On-site adjustment of joists of up to 3 inches is permitted to avoid interferences. When moving a joist, the subfloor thickness shall be checked with code requirements when the joist spacing exceeds 19.2 inches. Except for cutting to length, I-joist flanges should never be cut, drilled, or notched.

Installation of Nordic I-joists shall be as per Nordic Joist Installation Guide for Residential Floors. Refer to Tables 1 and 2 for maximum web hole and duct chase openings, respectively. These tables are based on the I-joists being used at their maximum spans. The minimum distance given may be reduced for shorter spans; contact your distributor for additional information.

The detail below shows the 3-inch allowance for piping. Every third joist may be shifted up to 3 inches to avoid heating/plumbing interference. For other applications, please contact your distributor.



Revised April 12, 2012



Maximum 1/2" depth for flange width of 2-1/2" and 1" depth for flange width of 3-1/2"

Heat register

Notes:

1. Blocking required at bearing for leteral support, not shown for clarity.

1. Blocking required at bearing for leteral support, not shown for clarity.

2. The maximum dimensions for a notch on the side of the top flange are 4-noch width by 1/2-inch depth for flange width of 2-1/2 inches, and 4-inch width by 1-4-noch depth for flange width of 2-1/2 inches.

3. This default applies to simple-span joists and multiple-span joists where the notch is located at the end half-span.

4. For other applications, contact Nordic Structures.

STRUCTURES nordic.ca

T 514-871-8526 1 866 817-3418

Notch in I-joist for Heat Register

CATEGORY

I-joist - Typical Floor Framing and Construction Details

This document supersedes all previous versions. If the document has been in effect for more than one year, consult nordic.ca or contact Nordic Structures.

All nalls shown in the details are assumed to be common nalls unless otherwise noted. Nalls shall have a diameter not less than 0.128 inch for 2-1/2-inch nails, or 0.144 inch for 3-inch nails. Individual components not shown to scale for clarity.

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