NE1220-140 Page 42 of 83

EWP Studio Simpson Strong-Tie® Component Solutions™ Client: Project: Address: Date: 5/15/2018 Designer:

Job Name: GLENWAY 2A EL- 2

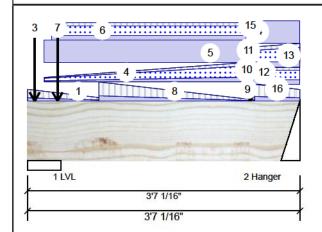
Project #:

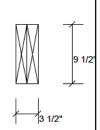
F15-A Forex 2.0E-3000Fb LVL

1.750" X 9.500"

2-Ply - PASSED

Level: Second Floor





Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
3	Point	0-1-2		Тор	10 lb	0 lb	0 lb	0 lb	Wall Self Weight
4	Tapered Start	0-2-10		Тор	4 PLF	3 PLF	9 PLF	0 PLF	
	End	2-10-8			17 PLF	12 PLF	40 PLF	0 PLF	
5	Part. Uniform	0-2-10 to 2-10-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
6	Part. Uniform	0-3-12 to 2-10-8		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
7	Point	0-4-12		Тор	222 lb	95 lb	329 lb	0 lb	F11 F11
8	Tie-In	0-11-4 to 2-11-14	(Span)2-5-7 to 0-1-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
9	Part. Uniform	2-10-8 to 2-11-0		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
10	Tapered Start	2-10-8		Тор	17 PLF	12 PLF	40 PLF	0 PLF	
	End	2-11-0			18 PLF	12 PLF	41 PLF	0 PLF	
11	Part. Uniform	2-10-8 to 2-11-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Part. Uniform	2-11-0 to 3-7-1		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
13	Tapered Start	2-11-0		Тор	18 PLF	12 PLF	41 PLF	0 PLF	
	End	3-7-1			21 PLF	15 PLF	49 PLF	0 PLF	
14	Part. Uniform	2-11-0 to 3-7-1		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
15	Point	2-11-3		Near Face	-17 lb	-44 lb	0 lb	0 lb	J6
16	Tie-In	2-11-14 to 3-7-1	(Span)2-1-13 to 1-5-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				8 PLF				

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



corrections as noted. No other changes may obtained made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

These plans have been reviewed for use with the corrections as noted. No other changes may be

Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02-0 Sewage System

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- 1. IVI, beams must not be out or drilled
 2. Refer to manufacturer's product informati regarding installation requirements, multi-fastening details, beam strength values, and co approvals
 3. Damaged Beams must not be used

 - Daniaged beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Forex APA: PR-L318

Manufacturer Info

NE1220-140 Page 43 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor Forex 2.0E-3000Fb LVL 2-Ply - PASSED 14 1 1 Hanger (HGUS410) 2 LVL 7'4 3/8' 9'9 3/8" Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Wind Type: Application: Floor (Residential) Live Dead Snow Plies Design Method: 104 (-97)0 (-87) 0 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 808 355 0 2 354 (-81) Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 4.000" 1% -87 / 197 109 L 0.9D+1.5L (-271)Hanger Analysis Results 2 - LVL 3.500" 22% 1010 / 266 1277 L 1.25D+1.5S Capacity Actual Comb. **Analysis** Location Allowed Case 0.135 (14%) 1.25D+1.5S _L Neg Moment -2427 ft-lb 7'4 3/8" 17952 ft-lb Unbraced -2427 ft-lb 7'4 3/8" 17482 ft-lb 0.139 (14%) 1.25D+1.5S READ ALL NOTES ON THIS PAGE AND ON AD PROFESSIONAL Pos Moment 57 ft-lb 1'6 3/8" 17725 ft-lb 0.003 (0%) 0.9D+1.5L L_ **ENGINEERING NOTE PAGE ENP-2. THIS** NOTE PAGE IS AN INTEGRAL PART OF THIS Unbraced 57 ft-lb 1'6 3/8" 17725 ft-lb 0.003 (0%) 0.9D+1.5L L_ CALCULATION SUMMARY PAGE AS IT Shear 1079 lb 8'1 7/8" 7329 lb 0.147 (15%) 1.25D+1.5S _L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. Perm Defl in. 0.010 (L/7953) 4'5 1/16" 0.232 (L/360) 0.050 (5%) D Uniform REFER TO MULTIPLE MEMBER TO MEMBER LL Defl inch 0.008 4'3 7/16" 0.232 (L/360) 0.040 (4%) S+0.5L _L CONNECTION DETAIL FOR PLY TO PLY (L/10174) NAILING OR BOLTING REQUIREMENTS. TL Defl inch 0.019 (L/4466) 4'4 5/16" 0.347 (L/240) 0.050 (5%) D+S+0.5L PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** 0.023 Rt Cant 0.200 0.116 (12%) S+0.5L LL Cant _L (2L/2491) (2L/480) POINT LOADS OVER BEARINGS. TL Cant 0.058 Rt Cant 0.300 0.193 (19%) D+S+0.5L L (2L/1002)(2L/360) **Design Notes** 1 Fill all hanger nailing holes. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. East Gwillimbury 4 Top loads must be supported equally by all plies. 5 Tie-down connection required at bearing 1 for uplift 271 lb (Combination 1.25D+1.5S+0.5L, Load Case _L). 6 Top braced at bearings. These plans have been reviewed for use with the corrections as noted. No other changes may be 7 Bottom braced at bearings. made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the 8 Lateral slenderness ratio based on full section width. Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all tim Manufacturer Info Notes Reviewer BCIN Date **Handling & Installation** Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requiremen APA: PR-L318 H. Authier 43236 ewage System aged Beams m Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corn

NE1220-140 Page 44 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: SB Designer: Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor Forex 2.0E-3000Fb LVL 2-Ply - PASSED 14 1 9 1/2 1 Hanger (HGUS410) 2 LVL 7'4 3/8' 2'5 9'9 3/8" ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 40 PSF 15 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 9-5-14 (Span)1-0-15 Top 40 PSF 0 PSF 2 Tie-In 0-0-0 to 8-10-7 (Span)0-8-1 Top 15 PSF 0 PSF 3 **Point** 201 lb 71 lb 123 lb F3 9-5-12 Near Face 0 lb 4 **Point** 9-5-12 Near Face 0 lb -41 lb 0 lb 0 lb F3 5 Point 1 lb 1 lb 3 lb 0 lb 9-6-10 Top 6 Point 9-6-10 Top 5 lb 0 lb 0 lb 0 lb Wall Self Weight 8 1 lb 0 lb 0 lb Point 9-6-10 Top 1 lb 9 Point 9-6-10 3 lb 0 lb 0 lb 0 lb Wall Self Weight Top Point 1 lb 1 lb 2 lb 0 lb 10 9-6-10 Top 11 Point 9-6-10 1 lb 0 lb 1 lb 0 lb Top 12 0 lb Wall Self Weight Point 3 lb 0 lb 0 lb 9-6-10 Top Point 9-7-10 Far Face 299 lb 42 lb 138 lb F3 13 0 lb 14 9-7-10 F3 Point Far Face 0 lb -20 lb 0 lb 0 lb Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON REFER TO MULTIPLE MEMBER TO MEMBER ENGINEERING NOTE PAGE ENP-2. THIS CONNECTION DETAIL FOR PLY TO PLY NOTE PAGE IS AN INTEGRAL PART OF THIS NAILING OR BOLTING REQUIREMENTS. CALCULATION SUMMARY PAGE AS IT PASS THRU FRAMING SQUASH CONTAINS SPECIFICATIONS AND CRITERIA **BLOCK IS REQUIRED AT ALL** USED IN THE DESIGN OF THIS COMPONENT. POINT LOADS OVER BEARINGS East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Date Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended Forex Building Code LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement fastening details, beam strength value APA: PR-L318 H. Authier 43236 ewage System aged Beams must not be used

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NE1220-140 Page 45 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor Forex 2.0E-3000Fb LVL 2-Ply - PASSED F16-B 7 9 2 2 LVL 1 Hanger (HGUS410) 7'4 3/8' 9'9 3/8" Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Brg Wind Type: Application: Floor (Residential) Live Dead Snow Plies Design Method: 75 (-101)0 (-83) 0 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 0 2 314 (-86) 770 343 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 4.000" 1% -91 / 150 59 (-270) L 0.9D+1.5L Hanger Analysis Results 2 - LVL 3.500" 21% 962 / 257 1220 L 1.25D+1.5S Actual Comb. **Analysis** Location Allowed Capacity Case Neg Moment -2320 ft-lb 7'4 3/8" 17952 ft-lb 0.129 (13%) 1.25D+1.5S _L Unbraced -2320 ft-lb 7'4 3/8" 17482 ft-lb 0.133 (13%) 1.25D+1.5S READ ALL NOTES ON THIS PAGE AND ON Pos Moment 17 ft-lb 1' 5/8" 16588 ft-lb 0.001 (0%) 0.9D+1.5L L_ **ENGINEERING NOTE PAGE ENP-2. THIS** PROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Unbraced 17 ft-lb 1' 5/8" 16588 ft-lb 0.001 (0%) 0.9D+1.5L L_ CALCULATION SUMMARY PAGE AS IT Shear 1046 lb 8'1 7/8" 7329 lb 0.143 (14%) 1.25D+1.5S _L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. Perm Defl in. 0.010 (L/8099) 4'4 13/16" 0.232 (L/360) 0.040 (4%) D Uniform REFER TO MULTIPLE MEMBER TO MEMBER LL Defl inch 0.008 4'3 7/16" 0.232 (L/360) 0.030 (3%) S+0.5L _L CONNECTION DETAIL FOR PLY TO PLY (L/10599) NAILING OR BOLTING REQUIREMENTS. TL Defl inch 0.018 (L/4592) 4'4 3/16" 0.347 (L/240) 0.050 (5%) D+S+0.5L PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** 0.022 Rt Cant 0.200 0.112 (11%) S+0.5L LL Cant _L (2L/2598) (2L/480) POINT LOADS OVER BEARINGS. TL Cant 0.056 Rt Cant 0.300 0.185 (19%) D+S+0.5L L (2L/1043)(2L/360) **Design Notes** 1 Fill all hanger nailing holes. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. East Gwillimbury 4 Top loads must be supported equally by all plies. 5 Tie-down connection required at bearing 1 for uplift 270 lb (Combination 1.25D+1.5S+0.5L, Load Case _L). 6 Top braced at bearings. These plans have been reviewed for use with the corrections as noted. No other changes may be 7 Bottom braced at bearings. made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the 8 Lateral slenderness ratio based on full section width. Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all tim Manufacturer Info Notes Reviewer BCIN Date **Handling & Installation** Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
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 LVL not to be treated with fire retardant or corr

Page 46 of 83 NE1220-140 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: Level: Second Floor 1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED F16-B 7 9 2 1 Hanger (HGUS410) 2 LVL 7'4 3/8' 2'5 9'9 3/8" ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 15 PSF 40 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 8-11-6 (Span)0-5-15 Top 40 PSF 0 PSF 2 Tie-In 0-0-0 to 9-5-14 (Span)0-10-1 Top 15 PSF 0 PSF 3 Point Far Face 203 lb 79 lb 121 lb F15 9-4-13 0 lb 4 **Point** 9-4-13 Far Face 0 lb -37 lb 0 lb 0 lb F15 0 lb 5 Point 0 lb 1 lb 0 lb 9-5-11 Top Wall Self Weight Point 9-5-11 Top 2 lb 0 lb 0 lb 0 lb 8 296 lb 42 lb 138 lb 0 lb F3 Point 9-7-10 Near Face 9 Point 9-7-10 Near Face 0 lb -28 lb 0 lb 0 lb F3 Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be corrections as noted. No other changes may ob-made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Date Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to warfity the dimensions and loads. Forex Building Code LVL beams must not be cut or drilled
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Manufacturer Info Forex APA: PR-L318

Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			
H	7	U	K

NE1220-140 Page 48 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 9.500" 3-Ply - PASSED 10 12 13 16 2 3 5 8 14 9 1 2 SPF 1 SPF 15'4 3/4' 15'4 3/4' .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 104 lb 0 lb 6 **Point** 4-7-15 Near Face -97 lb 0 lb F16 7 Point 4-7-15 Near Face 0 lb -87 lb 0 lb F16 Point 5-8-13 Near Face 57 lb 153 lb 0 lb 0 lb J6 8 9 6-4-13 to 9-0-13 Near Face 48 PLF 128 PLF 0 PLF 0 PLF Part. Uniform Point 9-8-13 Near Face 52 lb 139 lb 0 lb 0 lb J6 10 -101 lb 75 lb 0 lb 11 **Point** 10-6-14 Near Face 0 lb 12 Point 10-6-14 Near Face 0 lb 0 lb -83 lb 0 lb F16 **Point** 11-0-13 Near Face 45 lb 119 lb 0 lb 0 lb J6 13 14 Part. Uniform 11-8-13 to 14-4-13 Near Face 54 PLF 144 PLF 0 PLF 0 PLF 15 **Point** 15-0-13 Top 0 lb 1 lb 0 lb 0 lb 16 Point 15-0-13 Top 1 lb 2 lb 0 lb 0 lb Self Weight 11 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS REFER TO MULTIPLE MEMBER TO MEMBER CALCULATION SUMMARY PAGE AS IT CONNECTION DETAIL FOR PLY TO PLY CONTAINS SPECIFICATIONS AND CRITERIA NAILING OR BOLTING REQUIREMENTS. USED IN THE DESIGN OF THIS COMPONENT. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Date Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement APA: PR-L318 H. Authier 43236 ewage System aged Beams must not be used Daniaged beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corn

Brg

1

2

2 -

Hanger

1 - SPF 8.279"

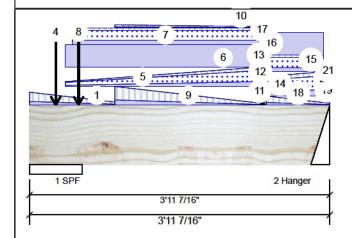
3.000"

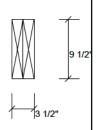
Simpson Strong-Tie® Component Solutions™ Project: Address: Designer: SB

Job Name: GLENWAY 2A EL- 2

Project #:

1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED Level: Second Floor





Wind

0

0

1.25D+1.5S

+0.5L 1.25D+1.5S

+0.5L

Member Information								
Type:	Girder	Application:	Floor (Residential)					
Plies:	2	Design Method:	LSD					
Moisture Condition:	Dry	Building Code:	NBCC 2010 / OBC 2012					
Deflection LL:	360	Load Sharing:	No					
Deflection TL:	240	Deck:	Not Checked					
Importance:	Normal	Vibration:	Not Checked					
General Load		SA 4 4 4 1 10 A 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4						
Floor Live:	40 PSF							

Bearings and Fac	tored Reactions			
Bearing Length	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.

582 / 768

252 / 220

Unfactored Reactions UNPATTERNED lb (Uplift)

191 (-12)

71 (-41)

Dead

465

201

Snow

448

123

1350 L

472 L

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	273 ft-lb	2'1 9/16"	18179 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	273 ft-lb	2'1 9/16"	18179 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	175 lb	1'5"	7421 lb	0.024 (2%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/36358)	2'2 1/8"	0.105 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.001 (L/49429)	2'2 1/2"	0.105 (L/360)	0.010 (1%)	S+0.5L	L
TL Defl inch	0.002 (L/20952)	2'2 5/16"	0.157 (L/240)	0.010 (1%)	D+S+0.5L	L

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

9%

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Fill all hanger nailing holes.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.

15 PSF

- 6 Top braced at bearings.
- 7 Bottom braced at bearings.

l	8 Lateral slender	ness ratio based on full	section width.								_ 1
	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comment	s 🍃
	1	Tie-In	0-0-0 to 1-1-8	(Span)1-7-12 to 0-4-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF		Th
	2 Continued on page	Point 2	0-4-2		Тор	25 lb	11 lb	37 lb	0 lb	F11 F11	ma Sta Zo On



Notes

structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- **Handling & Installation**
- LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement
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APA: PR-L318

Manufacturer Info

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			
AN		U	K



NE1220-140 Page 50 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: Level: Second Floor 1.750" X 9.500" 2-Ply - PASSED Forex 2.0E-3000Fb LVL F3-A 10 8 13 15 6 READ ALL NOTES ON THIS PAGE AND ON 21 5 ENGINEERING NOTE PAGE ENP-2. THIS 14 18 <u>1</u> 18 NOTE PAGE IS AN INTEGRAL PART OF THIS 11 🛫 9 CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY 1 SPF 2 Hanger NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH 3'11 7/16" BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS. 3'11 7/16" ...Continued from page 1

.Commucu i	iroiii page i								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
3	Point	0-4-2		Тор	1 lb	1 lb	3 lb	0 lb	
4	Point	0-4-2		Тор	10 lb	0 lb	0 lb	0 lb	Wall Self Weight
5	Tapered Start	0-5-10		Тор	4 PLF	3 PLF	10 PLF	0 PLF	
	End	3-0-1			17 PLF	12 PLF	39 PLF	0 PLF	
6	Part. Uniform	0-5-10 to 3-0-1		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-6-12 to 3-0-1		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
8	Point	0-7-12		Тор	215 lb	90 lb	312 lb	0 lb	F11 F11
9	Tie-In	1-1-8 to 3-1-7	(Span)2-4-11 to 0-1-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
10	Tie-In	1-1-8 to 3-1-7	(Span)0-4-10 to 0-1-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
11	Tapered Start	3-0-1		Тор	17 PLF	12 PLF	39 PLF	0 PLF	
	End	3-0-9			17 PLF	12 PLF	39 PLF	0 PLF	
12	Part. Uniform	3-0-1 to 3-0-9		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
13	Part. Uniform	3-0-1 to 3-0-9		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Tapered Start	3-0-9		Тор	17 PLF	12 PLF	39 PLF	0 PLF	
	End	3-10-8			22 PLF	15 PLF	49 PLF	0 PLF	
15	Part. Uniform	3-0-9 to 3-10-8		Тор	15 PLF	10 PLF	35 PLF	0 PLF	
16	Part. Uniform	3-0-9 to 3-10-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
17	Point	3-0-12		Far Face	-20 lb	-53 lb	0 lb	0 lb	J6
18	Tie-In	3-1-7 to 3-11-7	(Span)1-1-15 to 0-2-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
19	Tapered Start	3-10-8		Тор	11 PLF	7 PLF	24 PLF	0 PLF	
	End	3-11-7			11 PLF	7 PLF	24 PLF	0 PLF	
20	Part. Uniform	3-10-8 to 3-11-7		Тор	7 PLF	5 PLF	17 PLF	0 PLF	
21	Part. Uniform	3-10-8 to 3-11-7		Тор	39 PLF	0 PLF	0 PLF	0 PLF	Wall Self We East Gwillimbury
	Self Weight				8 PLF				Building Standards Branch BCIN #18487

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. IVI, beams must not be out or drilled
2. Refer to manufacturer's product informati regarding installation requirements, multi-fastening details, beam strength values, and co approvals
3. Damaged Beams must not be used

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

8. For flat roofs provide proper drainage to prevent

Manufacturer Info

Forex APA: PR-L318 These plans have been reviewed for use with the corrections as noted. No other changes may be corrections as noted. No other changes may of made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

M (4)	31		
Zoning			
Sewage System			
Building Code	H. Authier	43236	2021-02-08
Discipline	Reviewer	BCIN	Date



APA: PR-L318

H. Authier 43236

ewage System

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corn

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Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation

aged Beams r

NE1220-140 Page 52 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor Forex 2.0E-3000Fb LVL 2-Ply - PASSED F3-B 10 3 12 7 14 5 2 9 6 8 11 13 1 1 Hanger (HUC410 (Min)) 2 Hanger (HUC410 (Min)) 5'7 7/16' 5'7 7/16' .Continued from page 1 ID Location Trib Width Side Dead Snow Wind Comments Load Type Live 21 PLF 15 PLF 49 PLF Part. Uniform 0-4-11 to 1-7-3 Top 0 PLF 5 Part. Uniform 0-4-11 to 1-7-3 Top 80 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight Part. Uniform 1-7-3 to 2-11-3 21 PLF 15 PLF **49 PLF** 0 PLF 6 Top 0 PLF Part. Uniform 80 PLF 0 PLF 0 PLF Wall Self Weight 1-7-3 to 2-11-3 Top Part. Uniform 2-11-3 to 4-3-3 21 PLF 15 PLF 49 PLF 0 PLF 8 Top 80 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight 9 Part. Uniform 2-11-3 to 4-3-3 Top

-4 PLF

21 PLF

80 PLF

21 PLF

80 PLF

8 PLF

-11 PLF

15 PLF

0 PLF

15 PLF

0 PLF

Far Face

Top

Top

Top

Top

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

2-11-3 to 5-7-3

4-3-3 to 5-4-3

4-3-3 to 5-4-3

5-4-3 to 5-7-7

5-4-3 to 5-7-7

Part. Uniform

Part. Uniform

Part. Uniform

Part. Uniform

Part. Uniform

Self Weight

REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

0 PLF

49 PLF

0 PLF

49 PLF

0 PLF

0 PLF

0 PLF

0 PLF

0 PLF

0 PLF

Wall Self Weight

Wall Self Weight

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all tim

Notes

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structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre

Handling & Installation

LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement

aged Beams m

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

Manufacturer Info

Forex APA: PR-L318

Reviewer BCIN Date Building Code H. Authier 43236 ewage System

APA: PR-L318

H. Authier 43236

ewage System

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 Refer to manufacturer's prod-regarding installation requirem

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Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation

Forex APA: PR-L318

Manufacturer Info

Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			
A		U	K



Page 55 of 83 NE1220-140 Client: Date: 5/15/2018 **EWP Studio** Project: SB Designer: Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor 2-Ply - PASSED F5-A Forex 2.0E-3000Fb LVL 11 6 8 5 1 SPF 2 SPF 11'4 3/4' 11'5 5/8' ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 40 PSF 15 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 0-2-10 (Span)0-6-15 Top 40 PSF 0 PSF 2 Tie-In 0-0-0 to 0-4-6 (Span)0-9-1 Top 15 PSF 0 PSF (Span)0-9-0 40 PSF 0 PSF 3 0-2-10 to 0-4-13 15 PSF 0 PSF Tie-In Top to 0-2-3 **Point** 0-8-10 Near Face 84 lb 224 lb 0 lb 0 lb J7 1-2-10 to 10-2-10 126 PLF 336 PLF 0 PLF 0 PLF 5 Part. Uniform Near Face 6 Point 1-4-10 Far Face 81 lb 215 lb 0 lb 0 lb J6 63 PLF 169 PLF 0 PLF 0 PLF Part. Uniform 2-0-10 to 4-8-10 Far Face 74 lb 197 lb 0 lb 8 Point 5-4-10 Far Face 0 lb J6 9 6-4-10 148 lb **Point** Far Face 55 lb 0 lb 0 lb J6 10 **Point** 7-1-9 Far Face 163 lb 392 lb 0 lb 0 lb F9 **Point** 10-8-10 Near Face 120 lb 321 lb 0 lb 0 lb J7 12 Tie-In 11-0-2 to 11-5-10 (Span)0-6-15 Top 15 PSF 40 PSF 0 PSF 0 PSF 13 Tie-In 11-0-2 to 11-5-10 (Span)0-9-1 15 PSF 40 PSF 0 PSF 0 PSF Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY ENGINEERING NOTE PAGE ENP-2. THIS NAILING OR BOLTING REQUIREMENTS. NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT PASS THRU FRAMING SQUASH CONTAINS SPECIFICATIONS AND CRITERIA **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS USED IN THE DESIGN OF THIS COMPONENT. East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Forex Discipline Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirement APA: PR-L318 H. Authier 43236

ewage System

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corre

aged Beams m

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

posted on site at all tin

Building Code

ewage System

Reviewer BCIN Date

H. Authier 43236

Manufacturer Info

APA: PR-L318

Forex

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 LVL not to be treated with fire retardant or corr

Handling & Installation

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Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

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Notes

NE1220-140 Page 57 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 2 Component Solutions™ Project #: 1.750" X 9.500" - PASSED Level: Second Floor Forex 2.0E-3000Fb LVL F9-A 2 3 4 5 6 7 8 9 1 1 Hanger (HUS1.81/10) 2 Hanger (HUS1.81/10) 8'5 1/2' 8'5 1/2" .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 9 15 PSF 40 PSF 0 PSF 0 PSF Tie-In 7-9-3 to 8-5-8 (Span)3-11-2 Top Self Weight 4 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT

CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS.

PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS.



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Discipline Reviewer BCIN Date
Building Code H. Authier 43236 2021-02-0 Sewage System

Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled
 Refer to manufacturer's product info regarding installation requirements, r fastening details, beam strength values, an

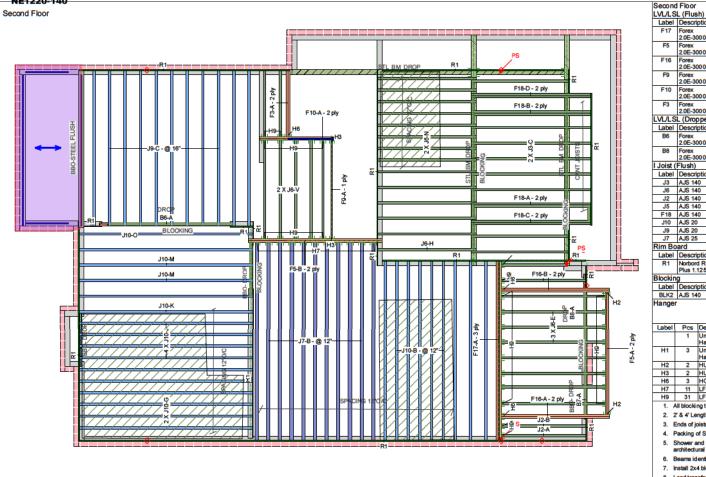
approvals

Damaged Beams must not be used

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
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Manufacturer Info

Forex APA: PR-L318



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER
CONNECTION DETAIL FOR PLY TO PI
NAILING OR BOLTING REQUIREMEN1 East Gwillimbury BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARING Building Standards Branch BCIN #16487

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H. Authier 43236 2021-02-08 Sewage System Zoning

Label	Descri		Widt	h D	epth	Qty	Plies	Pcs	Length	Builder	
F17	Forex	puon	1.7		9.5	1	3	3	16-0-0	Project	
F17		000Fb LVL	1.7	٠,	9.5		•	•	10-0-0		
F5	Forex	000Fb LVL	1.7	5	9.5	2	2	4	12-0-0	Shipping GREENPARK HOMES	
F16	Forex	000Fb LVL	1.7	5	9.5	2	2	4	10-0-0	TRINAR HALL, EAST (GWILLIMBURY, ON
F9	Forex	000Fb LVL	1.7	'5	9.5			1	10-0-0	Designer	
F10	Forex	000Fb LVL	1.7	'5	9.5	1	2	2	8-0-0	SB Plotted	
F3	Forex		1.7	5	9.5	1	2	2	6-0-0	December 17, 2020	
\// // C		000Fb LVL								Layout Name	
Label	Descri		Widt	h D	epth	Qty	Plies	Pcs	Length	GLENWAY 2A EL- 3	
B6	Forex	ption	1.7	_	9.5	1	2	2	12-0-0	Job Path	
-		000Fb LVL		١.	0.0			-	12-0-0		ENPARK HOMES/TRINAR
B8	Forex	000Fb LVL	1.7	'5	9.5	1	2	2	8-0-0	HALL\GLENWAY 2A\F \GLENWAY 2A EL- 3.is	LOOR/EL 3/WITH AJS140
Joiet ((Flush)	OUI D EVE								DESIGN CRITERIA	
	Descri	ntion	Widt	th De	epth	Qtv	Plies	Pcs	Length	Second Floor	
J3	AJS 14			.5	9.5	ay	1 1100	5	12-0-0	Design Method	LSD (Canada)
J6	AJS 14			.5	9.5			30	10-0-0	Building Code	NBCC 2015 / OBC 2012
J2	AJS 14			.5	9.5			3	8-0-0	Building Code	NB CC 2013 / OBC 2012
J5	AJS 14			.5	9.5			3	6-0-0	Floor	
F18	AJS 14	0	2	.5	9.5	4	2	8	12-0-0		
J10	AJS 20		2	.5	9.5			25	16-0-0	Loads	40
J9	AJS 20		2	.5	9.5			11	14-0-0	Live	15
J7	AJS 25		3.	.5	9.5			11	18-0-0	Dead	15
Rim Bo										Deflection Joist	400
Label			Widt		epth	Qty	Plies	Pcs	Length	LL Span L/	480
R1		d Rimboard	1.12	25	9.5			14	12-0-0	TL Span L/	360
Ole elde		125 X 9.5								LL Cant 2L/	480
Blockir		-41	144-4	L D.		04.	Direc	D	1	TL Cant 2L/	360
BLK2	AJS 14		Widt	.5	9.5	Qty LinFt	Plies	Pcs Varies	Length 42-0-0	Deflection Girder	
la nge		0	2	,5	9.5	Linet		vanes	42-0-0	LL Span L/	360
ange	ır					Po	am/Girde		ported	TL Span L/	240
						ье	arii/Gilde		ember	LL Cant 2L/	480
Label	Pcs	Descriptio	n T	Skew	Slo	ne fa	steners		teners	TL Cant 2L/	360
	1	Unknown	"		1	-		1		Decking	OSB
		Hanger								Decking	
H1	3	Unknown			П					Thickness	5/8"
		Hanger			_					Fastener	Nailed & Glued
H2	2	HUC410 (N			_		14 16d		10d	Vibration	
H3	2	HUS1.81/1	0		-	_	30 16d		0 16d	Ceiling:	Gypsum 1/2"
H6 H7	3 11	HGUS410 LF359	\rightarrow		+	_	46 16d 10 10d		6 16d d 1/4WS	_ <i>_</i>	
H9	31	LF259	-+		+	_	10 10d		d 1/4WS	Roof	
		ng to be cut	from 1	2 injete	_		10 100	1 #0	(1 1/4445	Loads	
						la notha	10 ho out 1	121	oneth.	Live	0
		ngths to be			-	engths	to be cut i	rom 12 L	.engtn	Dead	17
		oists to be la								Snow	36
	_	of Steel bear								Deflection Joist	
		nd water ck				are appr	oximate or	nly, consu	dt .	LL Span L/	360
		ıral drawing								TL Span L/	240
		entified as "								LL Cant 2L/	360
		4 blocking @						walls		TL Cant 2L/	360
		sfer blocks								Deflection Girder	
		Multiple Men	nber C	onnecti	on Det	ail for ply	to ply nail	ing or bo	iting	LL Span L/	360
	requirem									TL Span L/	240
10. H	Hangers	and Fastene	ers to b	e instal	led as	per man	ufacturer			LL Cant 2L/	360
11. F	Framing	shown on th	is layo	ut may	deviate	from an	chi tectural	drawings	s. Arch/	TL Cant 2L/	360
	Eng to re	view and ap	prove t	the dev	iation	prior to co	onstruction	l.		Decking	

Point Load Support Load from Above Wall Norbord Rimboard Plus 1.125 X AJS 140 9.5 AJS 20 9.5 AJS 25 9.5 Forex 2.0E-3000Fb LVL 1.75 X ////// Forex 2.0E-3000Fb LVL 1.75 X 9.5 (Dropped) 1.5 X 9.5 (Dropped)

1.75 X 9.5 (Dropped)

Legend

TL Cant 2L/ Decking Decking Thickness

JOB INFORMATION

5/8"

SPF Plywood

Nailed Only

CCMC References

Boise - 12472-R , 12787-R LP - 12412-R Forex - 14056-R

905-642-4400

Fastener

Kott Inc. 3228 Moodie Dr, Ottawa

613-838-2775 /

14 Anderson Blvd, Uxbridge KOTT

additional load has been applied (e.g. 5 psf for ceramic tile)

Hatch Area represents where

NE1220-140

Version 20.40.075 Powered by iStruct**

This layout is to be used as an installation guide only. It is meant to be used in conjunction with the architectural and structural drawings, not to replace ti

NE1220-140 Page 59 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: Level: Second Floor 1.750" X 9.500" BM6-A Forex 2.0E-3000Fb LVL 2-Ply - PASSED 1 1 SPF 2 SPF 11'6 5/16' 11'6 5/16" Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Brg Dead Wind Type: Floor (Residential) Live Snow Plies: Design Method: 1456 587 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 0 1371 556 0 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Dead: Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.583" 52% 734 / 2183 2918 I 1.25D+1.5L 2 - SPF 3.750" 34% 696 / 2057 2752 I 1.25D+1.5L Analysis Results Actual Location Allowed Comb. **Analysis** Capacity Case 5'8 1/2" 22724 ft-lb 0.360 (36%) 1.25D+1.5L L Moment 8190 ft-lb 20280 ft-lb Unbraced 8190 ft-lb 5'8 1/2" 0.404 (40%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 2536 lb 0.273 (27%) 1.25D+1.5L L **ENGINEERING NOTE PAGE ENP-2. THIS** 10'5 13/16" 9277 lb ROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.079 (L/1691) 5'8 9/16" 0.371 (L/360) 0.210 (21%) D Uniform CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.196 (L/680) 5'8 9/16" 0.371 (L/360) 0.530 (53%) L L CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. TL Defl inch 0.275 (L/485) 5'8 9/16" 0.556 (L/240) 0.490 (49%) D+L L REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Girders are designed to be supported on the bottom edge only. PASS THRU FRAMING SQUASH 2 Multiple plies must be fastened together as per manufacturer's details. **BLOCK IS REQUIRED AT ALL** 3 Top loads must be supported equally by all plies. POINT LOADS OVER BEARINGS 4 Top braced at bearings. 5 Bottom braced at bearings 6 Lateral slenderness ratio based on full section width. ID Load Type Location Trib Width Side Dead Live Wind Comments Snow 0-2-9 to 10-10-9 99 PLF 265 PLF 0 PLF 0 PLF 1 Part. Uniform Top Self Weight 8 PLF East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all tim Manufacturer Info Notes Reviewer BCIN Date **Handling & Installation** Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled.
 Refer to manufacturer's prod-regarding installation requirem APA: PR-L318 H. Authier 43236 ewage System Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation Dry service conditions, unless noted otherwise.
 LVL not to be treated with fire retardant or conditions.

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Provide lateral support at bearing points to avoid

lateral displacement and rotation

NE1220-140 Page 61 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor BM8-A Forex 2.0E-3000Fb LVL 2-Ply - PASSED 2 6 1 1 SPF 2 SPF 6'2 5/8" 6'2 5/8" .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type Top 398 lb 526 lb 342 lb F11 F11 5 **Point** 5-3-2 6 **Point** 5-8-2 Top 158 lb 167 lb 59 lb 0 lb Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be corrections as noted. No other changes may obtained made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Forex Handling & Installation Reviewer BCIN Date Discipline Building Code LVL beams must not be cut or drilled
 Refer to manufacturer's product regarding installation requirements fastening details, beam strength value APA: PR-L318 H. Authier 43236 Sewage System approvals
Damaged Beams must not be used Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
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 LVL not to be treated with fire retardant or corro

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Provide lateral support at bearing points to avoid

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NE1220-140 Page 63 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: Level: Second Floor 1.750" X 9.500" F10-A Forex 2.0E-3000Fb LVL 2-Ply - PASSED 2 3 5 6 8 1 1 SPF 2 SPF End Grain 6'5 7/16" 6'5 7/16" .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 148 lb 0 lb 7 **Point** 5-5-12 Near Face 55 lb 0 lb J6 8 **Point** 6-2-11 Near Face 163 lb 392 lb 0 lb 0 lb F9 Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be corrections as noted. No other changes may obtained made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Forex Handling & Installation Reviewer BCIN Date Discipline Building Code LVL beams must not be cut or drilled
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			
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Page 65 of 83 NE1220-140 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: Level: Second Floor Forex 2.0E-3000Fb LVL 1.750" X 9.500" 2-Ply - PASSED F16-A 4 7 3 5 ____ 2 1 9 1/2 1 Hanger (HGUS410) 2 SPF 7'4 3/8' 1'11' 9'3 3/8" 9 Lateral slenderness ratio based on full section width. ID Location Trib Width Side Dead Live Wind Comments Load Type Snow 15 PSF 40 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 8-11-5 (Span)1-1-4 Top 2 Tie-In 0-0-0 to 7-4-6 (Span)0-9-11 Top 15 PSF 40 PSF 0 PSF 0 PSF Part. Uniform 6-10-14 to 9-3-6 80 PLF 0 PLF 0 PLF 0 PLF Wall Self Weight 3 Top 412 lb 539 lb 369 lb 4 Point 7-1-10 Top 0 lb Part. Uniform 7-9-6 to 8-9-14 15 PLF 10 PLF 35 PLF 0 PLF 5 Top 6 391 lb 0 lb 0 lb 0 lb **Point** 9-1-1 Far Face 7 Point 9-1-1 Far Face 0 lb -174 lb 0 lb 0 lb F5 Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Date Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended Forex Discipline Building Code

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NE1220-140 Page 66 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: 1.750" X 9.500" Level: Second Floor Forex 2.0E-3000Fb LVL 2-Ply - PASSED F16-B 4 2 3 ::: 1 9 1/2 2 LVL 1 Hanger (HGUS410) 7'4 3/8' 9'3 3/8" Unfactored Reactions UNPATTERNED lb (Uplift) Member Information Application: Brg Live Dead Wind Type: Floor (Residential) Snow Plies Design Method: 145 (-54)0 1 0 (-5) Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 0 2 127 (-238) 710 41 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Cap. React D/L lb Dead: Bearing Length Total Ld. Case Ld. Comb. 0.9D+1.5L 4.000" 2% -49 / 218 169 (-76) LL Hanger Analysis Results 2 - LVL 3.500" 17% 994 / 0 994 Uniform 1.4D Actual Comb **Analysis** Location Allowed Capacity Case Neg Moment -1171 ft-lb 7'4 3/8" 14770 ft-lb 0.079 (8%) 1.4D Uniform Unbraced -1171 ft-lb 7'4 3/8" 14509 ft-lb 0.081 (8%) 1.4D Uniform READ ALL NOTES ON THIS PAGE AND ON 3' 1/4" 14770 ft-lb Pos Moment 211 ft-lb 0.014 (1%) 0.9D+1.5L ENGINEERING NOTE PAGE ENP-2. THIS LL PROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Unbraced 211 ft-lb 3' 1/4" 14770 ft-lb 0.014 (1%) 0.9D+1.5L CALCULATION SUMMARY PAGE AS IT Shear 8'1 7/8" 6030 lb Uniform 673 lb 0.112 (11%) 1.4D CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. Perm Defl in. 0.007 4'5 1/2" 0.232 (L/360) 0.030 (3%) D Uniform REFER TO MULTIPLE MEMBER TO MEMBER (L/12237) CONNECTION DETAIL FOR PLY TO PLY LL Defl inch 0.007 4' 1/8" 0.232 (L/360) 0.030 (3%) L LL NAILING OR BOLTING REQUIREMENTS. (L/12489) PASS THRU FRAMING SQUASH 0.007 4'5 3/8" 0.347 (L/240) 0.020 (2%) D+S+0.5L TL Defl inch **BLOCK IS REQUIRED AT ALL** (L/11422) POINT LOADS OVER BEARINGS. LL Cant -0.010 Rt Cant 0.200 0.050 (5%) L LL (2L/4599) (2L/480) TL Cant 0.019 Rt Cant 0.300 0.064 (6%) D+S+0.5L (2L/2398)(2L/360) Design Notes 1 Fill all hanger nailing holes. 2 Girders are designed to be supported on the bottom edge only. East Gwillimbury 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. 5 Tie-down connection required at bearing 1 for uplift 76 lb (Combination 1.4D, Load Case These plans have been reviewed for use with the Uniform). corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the 6 Top braced at bearings. 7 Bottom braced at bearings. Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly 8 Lateral slenderness ratio based on full section width. posted on site at all tim Manufacturer Info Notes **Handling & Installation** Reviewer BCIN Date Forex Building Code structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended LVL beams must not be cut or drilled
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Page 67 of 83 NE1220-140 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: Level: Second Floor 1.750" X 9.500" Forex 2.0E-3000Fb LVL 2-Ply - PASSED F16-B 8 4 2 3 🔛 1 9 1/2 1 Hanger (HGUS410) 2 LVL 7'4 3/8' 1'11' 9'3 3/8" ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 40 PSF 15 PSF 0 PSF 0 PSF 1 Tie-In 0-0-0 to 7-4-6 (Span)0-9-12 Top 40 PSF 0 PSF 2 Tie-In 0-0-0 to 8-11-5 (Span)0-6-4 Top 15 PSF 0 PSF 0 PLF 3 Part. Uniform 7-9-6 to 8-9-14 15 PLF 10 PLF 35 PLF Top 0 PLF 4 Part Uniform 7-9-6 to 8-9-14 Top 80 PLF OPIF 0 PLF Wall Self Weight 9-0-10 0 lb 5 Point 12 lb 0 lb 0 lb Wall Self Weight Top 6 Point 9-0-10 Top 6 lb 0 lb 0 lb 0 lb Wall Self Weight 7 388 lb 0 lb 0 lb 0 lb F5 Point 9-1-1 Near Face 8 Point 9-1-1 Near Face 0 lb -189 lb 0 lb 0 lb F5 Self Weight 8 PLF READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH **BLOCK IS REQUIRED AT ALL** POINT LOADS OVER BEARINGS. East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. Manufacturer Info Notes Handling & Installation Reviewer BCIN Date Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended Forex Discipline Building Code LVL beams must not be cut or drilled
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Handling & Installation

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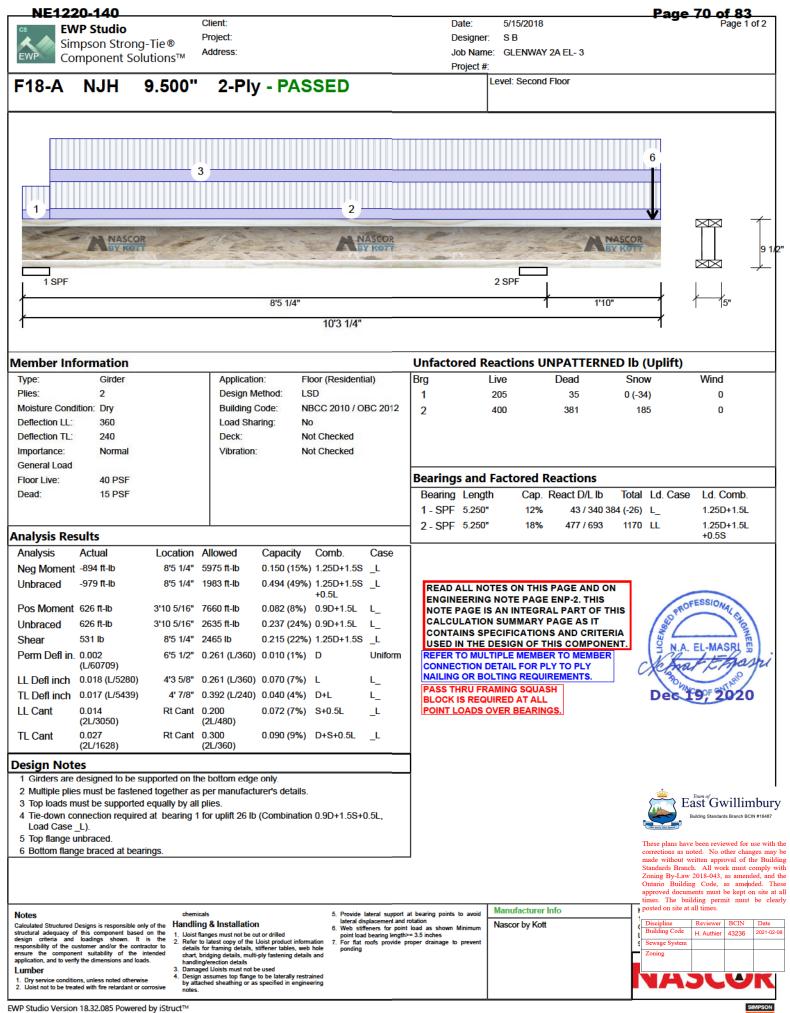
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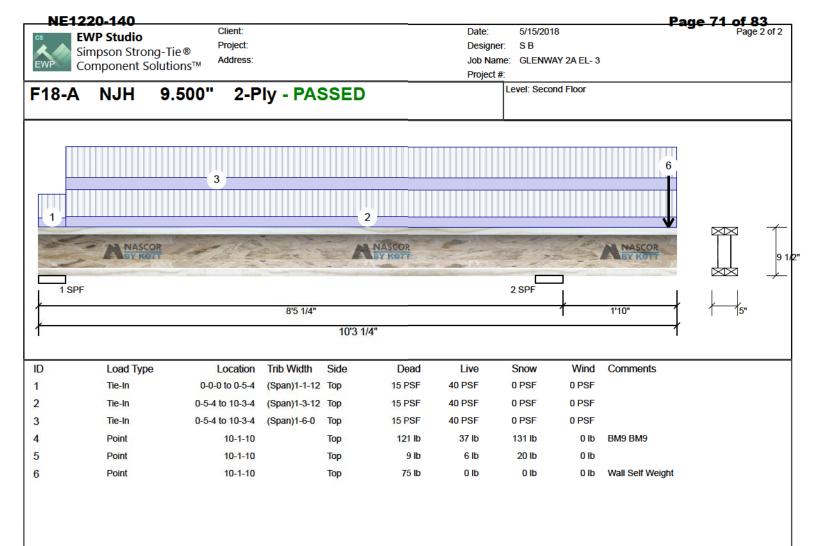
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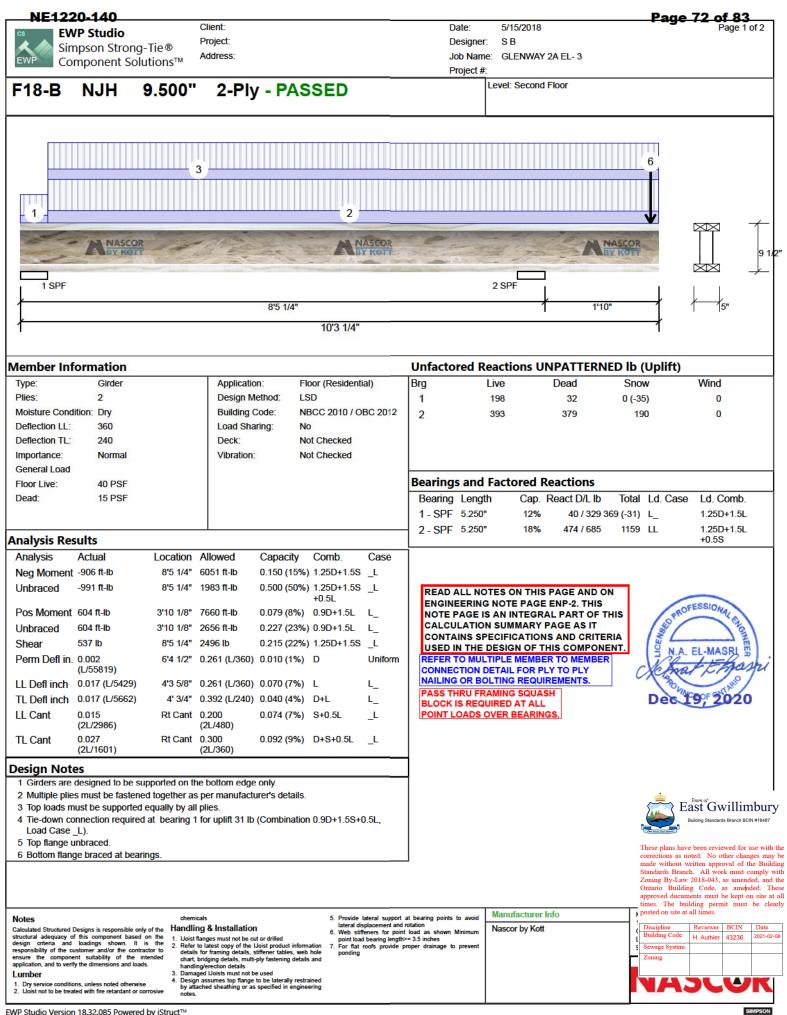
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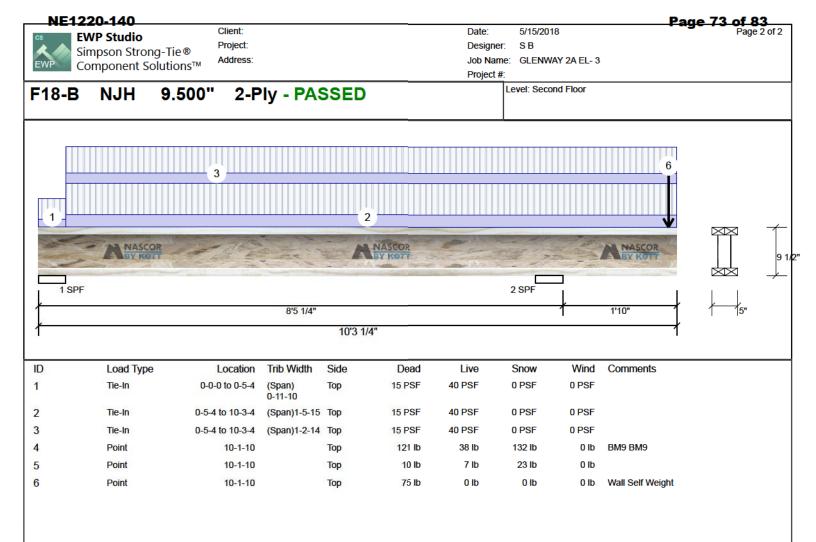
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Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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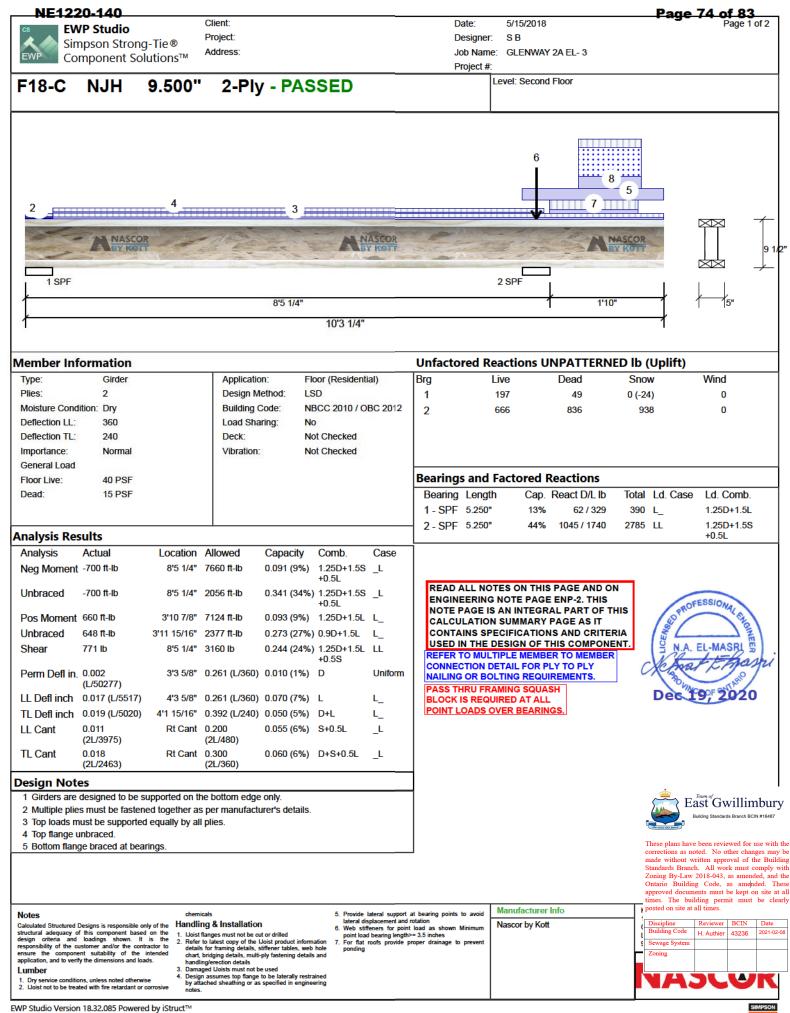
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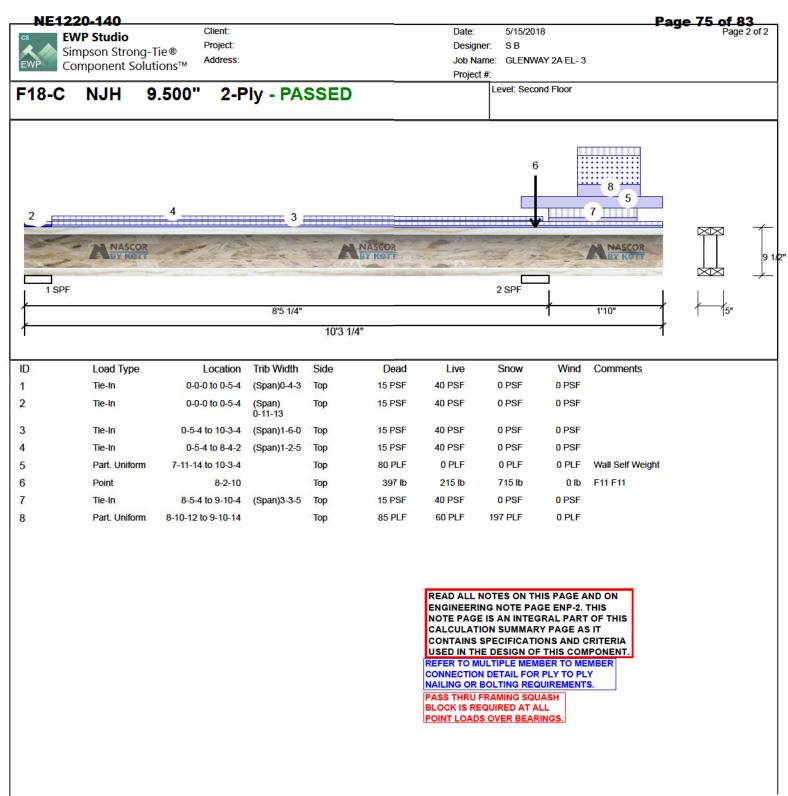
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Discipline	Reviewer	BCIN	Date
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Reviewer BCIN Date Discipline Building Code H. Authier 43236 Sewage System

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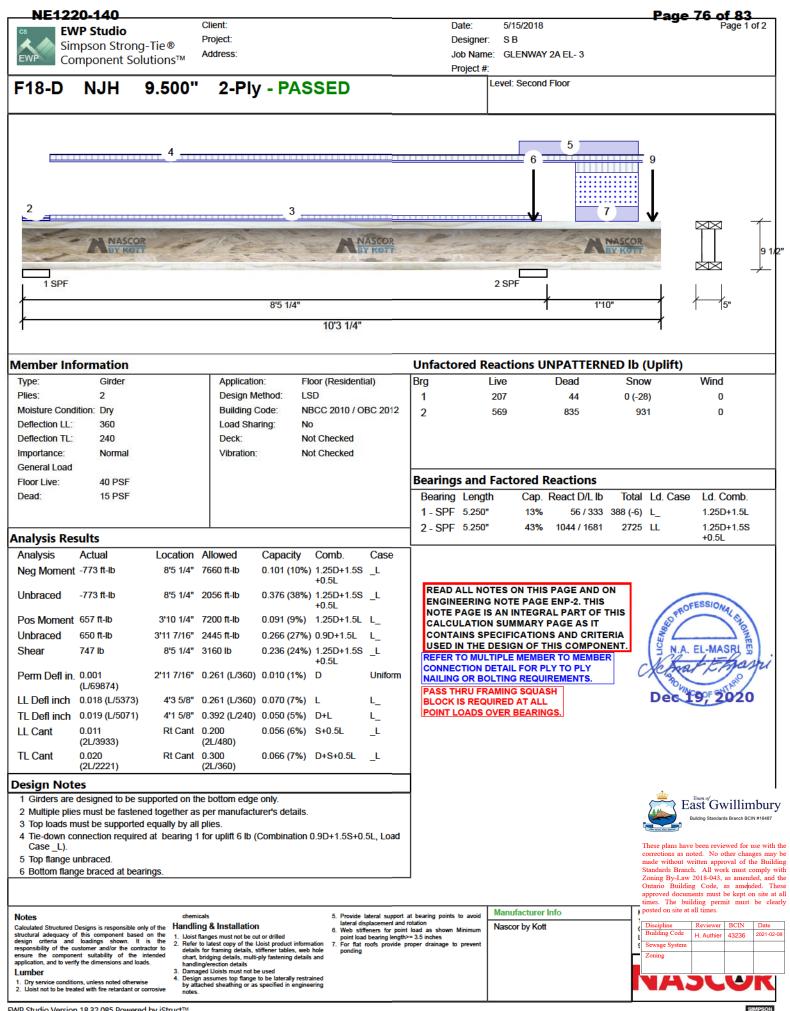
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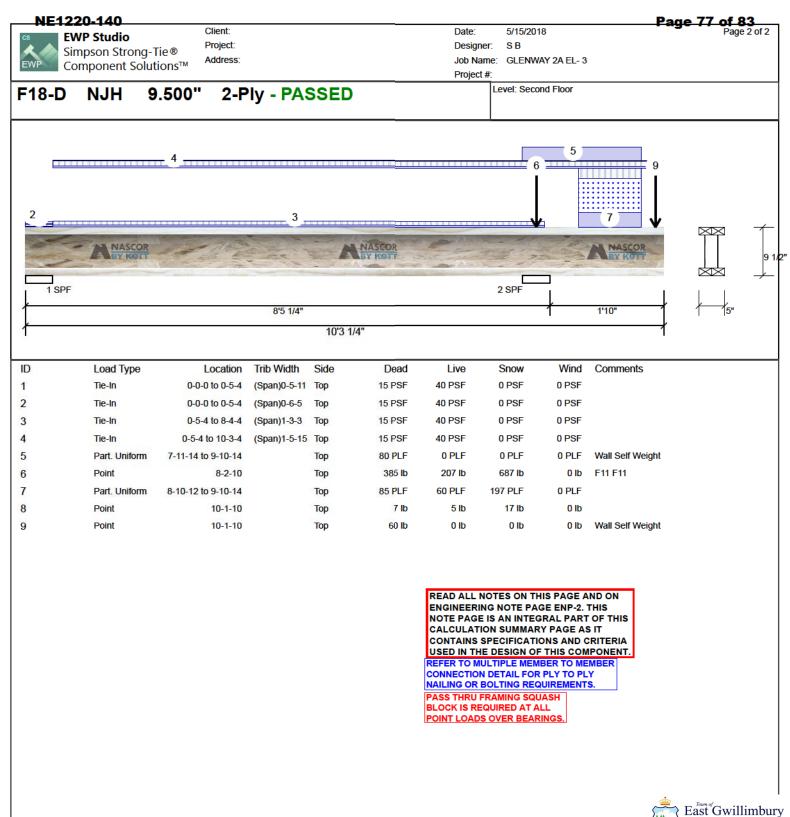
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NE1220-140 Page 78 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: Forex 2.0E-3000Fb LVL 1.750" X 9.500" Level: Second Floor 2-Ply - PASSED 1 1 Hanger (HGUS410) 2 SPE 5'8 1/8' 5'8 1/8' Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Floor (Residential) Dead Wind Type: Application: Brg Live Plies: Design Method: 38 36 0 0 1 Moisture Condition: Dry **Building Code:** NBCC 2010 / OBC 2012 38 36 n O 2 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Not Checked Deck: Importance: Vibration: Not Checked Normal General Load Bearings and Factored Reactions Floor Live: 40 PSF 15 PSF Cap. React D/L lb Dead: Bearing Length Total Ld. Case Ld. Comb. 1.25D+1.5L 4.000" 1% 45 / 56 Hanger Analysis Results 2 - SPF 4.375" 1% 45 / 57 102 L 1.25D+1.5L Actual Location Allowed Case **Analysis** Capacity Comb 2'9 7/8" 22724 ft-lb Moment 117 ft-lb 0.005 (1%) 1.25D+1.5L L Unbraced 117 ft-lb 2'9 7/8" 22724 ft-lb 0.005 (1%) 1.25D+1.5L L READ ALL NOTES ON THIS PAGE AND ON Shear 63 lb 4'7" 9277 lb 0.007 (1%) 1.25D+1.5L L ENGINEERING NOTE PAGE ENP-2. THIS ROFESSIONA NOTE PAGE IS AN INTEGRAL PART OF THIS Perm Defl in. 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CALCULATION SUMMARY PAGE AS IT LL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. TL Defl inch 0.000 (L/999) 0 999.000 (L/0) 0.000 (0%) REFER TO MULTIPLE MEMBER TO MEMBER Design Notes CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. 1 Fill all hanger nailing holes. PASS THRU FRAMING SQUASH 2 Girders are designed to be supported on the bottom edge only. **BLOCK IS REQUIRED AT ALL** 3 Multiple plies must be fastened together as per manufacturer's details. POINT LOADS OVER BEARINGS 4 Top loads must be supported equally by all plies. 5 Top braced at bearings. 6 Bottom braced at bearings. 7 Lateral slenderness ratio based on full section width. ID Load Type Location Trib Width Side Dead Live Wind Comments Snow 1 0-0-0 to 5-8-2 15 PSF 40 PSF 0 PSF 0 PSF Tie-In (Span)0-8-0 Top East Gwillimbury Self Weight 8 PLF These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all tim Manufacturer Info Notes Reviewer BCIN Date **Handling & Installation** Forex

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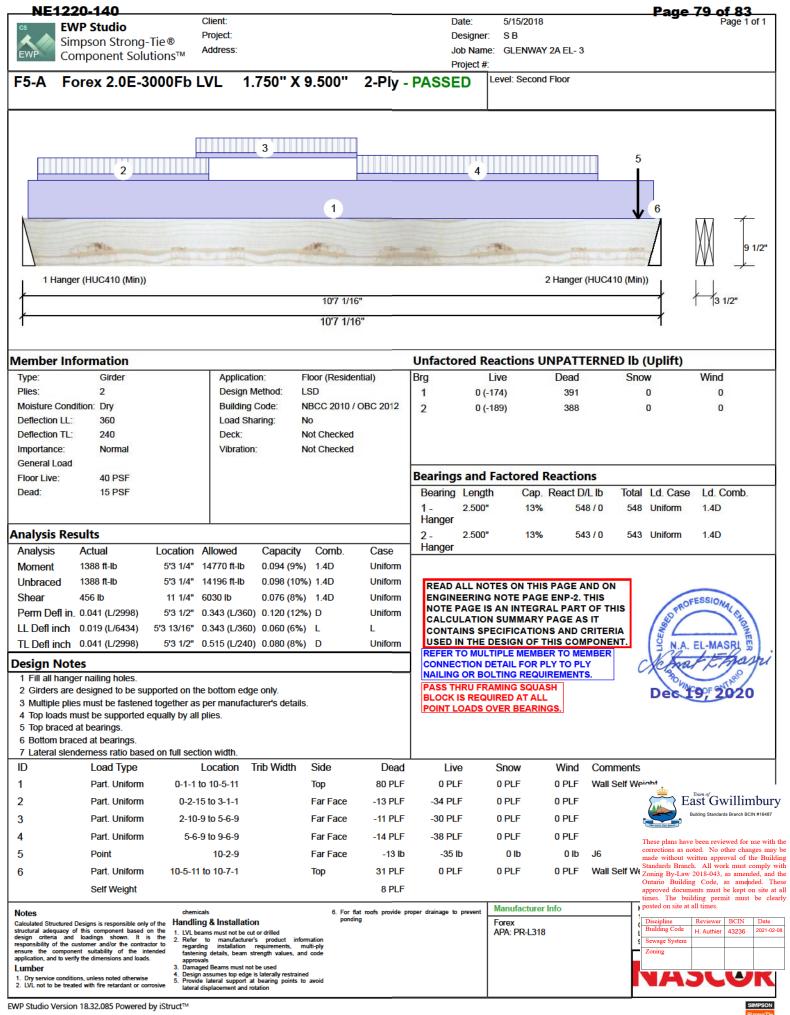
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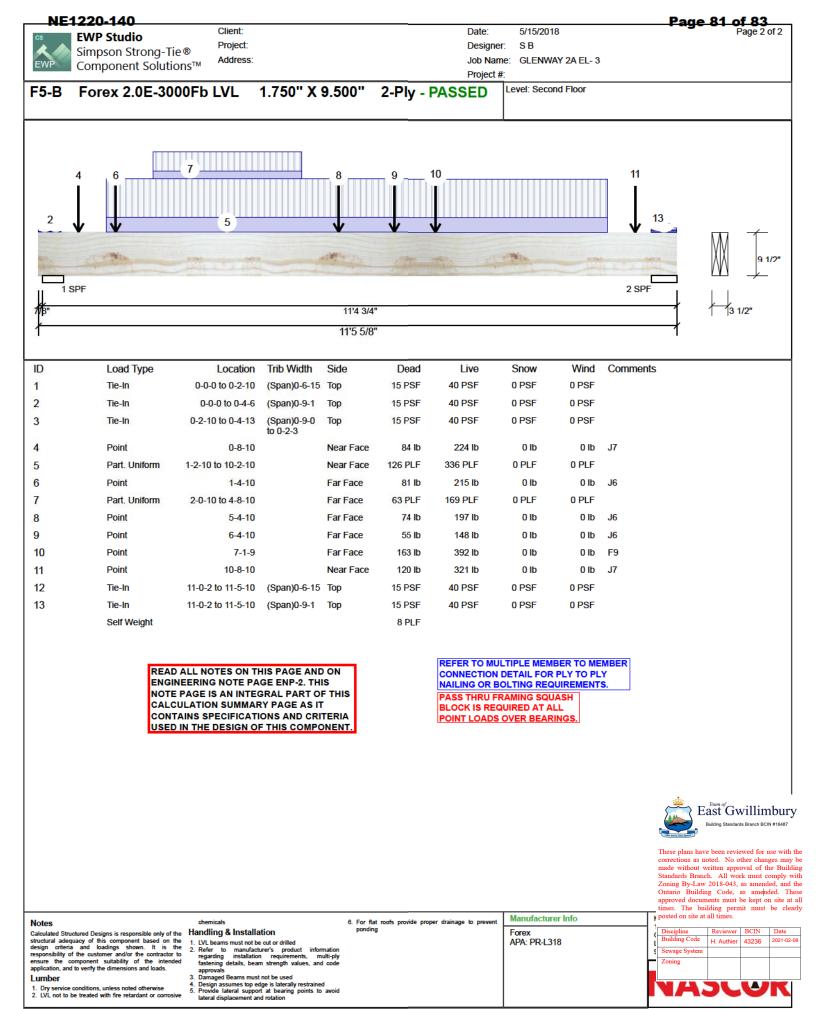
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LVL beams must not be cut or drilled Refer to manufacturer's product regarding installation requiremen

Daniaged beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation

Continued on page 2...

Notes

NE1220-140 Page 83 of 83 Client: Date: 5/15/2018 **EWP Studio** Project: Designer: SB Simpson Strong-Tie® Address: Job Name: GLENWAY 2A EL- 3 Component Solutions™ Project #: 1.750" X 9.500" - PASSED Level: Second Floor Forex 2.0E-3000Fb LVL F9-A 2 3 4 5 6 7 8 9 1 1 Hanger (HUS1.81/10) 2 Hanger (HUS1.81/10) 8'5 1/2' 8'5 1/2" .Continued from page 1 ID Location Trib Width Side Dead Live Snow Wind Comments Load Type 9 15 PSF 40 PSF 0 PSF 0 PSF Tie-In 7-9-3 to 8-5-8 (Span)3-11-2 Top Self Weight 4 PLF

> READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-2. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS CALCULATION SUMMARY PAGE AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. REFER TO MULTIPLE MEMBER TO MEMBER CONNECTION DETAIL FOR PLY TO PLY NAILING OR BOLTING REQUIREMENTS. PASS THRU FRAMING SQUASH

BLOCK IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.



These plans have been reviewed for use with the corrections as noted. No other changes may be corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			
NAJCWK			

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design orineria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

 LVL beams must not be cut or drilled
 Refer to manufacturer's product info regarding installation requirements, refastening details, beam strength values, an approvals approvals
Damaged Beams must not be used

Daniaged beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

Forex

Manufacturer Info

APA: PR-L318