

Version 21.80.417 Powered by iStruct™ Dataset: 22022101.1447

| Version Name Andrew Andrew Andrew Andrew REVAL 2.0 E Rigidiam LVL 1.750" X 9.250" 2.Pity - PASSED Let # 800" Image: State of the state | Client: | Date: | 3/21/2022 | Page 2 of 25 |
|---|---|--|--|--|
| Name Name Name Name Name Name REM2 2.0 E Rigidlam LVL 1.750" X 9.250" 2.Ply - PASSED Lett ROOT Image Image Image Image Image Image Image 1.22 1/2" Image Image Image Image Image 1/22 1/2" Image Image Image Image Image 1/22 1/2" Image Image Image Image Image 1/22 1/2" Image Image Image Image Image 0/0 r.r 1/2 1/2" Image Image Image Image Image 0/0 r.r 1/2 1/2" | Project: | Input b | WIKE CONNER | |
| RBM2 2.0E Rigidiam LVL 1.750" X 9.250" 2-Ply - PASSED Level: ROOT | ISDESISII Address: | Job Na Projec | ame: 22-1327 WOLVINGTON t #: | |
| Image: second | RBM2 2.0E Rigidlam LVL 1.750" X 9.250 |)" 2-Ply - PASSED | Level: ROOF | |
| Image: Section 1 Image: Section 1 <td< th=""><th></th><th></th><th></th><th></th></td<> | | | | |
| Image: Section and publics using 2 rows of 10d Box nails (128x3) at 12° o.c. Maximum end distance not to exceed 6°. Note: Section and publics using 2 rows of 10d Box nails (128x3) at 12° o.c. Maximum end distance not to exceed 6°. Naid United Section 11/12° i. In cited Distance In cited Distance <tr< td=""><td></td><td></td><td></td><td></td></tr<> | | | | |
| Image: Section 1 and 2 model with a section | | | | |
| Sector 0.0 PLF 40 Link per Fool 1.0 D 40 Comparation 1.0 D 41 Def Pool 1.0 D 42 Def Pool 1.0 D 41 Def Pool 1.0 D 42 Def Pool 1.0 D 41 Def Pool 1.0 D 41 Def Pool 1.0 D 42 Def Pool 1.0 D 41 Def Pool < | | | | |
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| SPF | | | | |
| Number of the second of the | | • • • | • • • | • \ |
| 1SPF 2SPF 1/2 1/2 1/2 1SPF 122 1/2' 1/2 1/2 1/2 1/2 Auth-Dy Analysis 1/2 1/2' 1/2 1/2 1/2 1/2 Step end [1] [1] [1] [1] [2] [2] [2] 0.0 % [1] [2] [2] [2] 0.0 % [1] [2] [2] [2] [2] 1/2 1/2 1/2 Step end [1] [2] [2] [2] [2] [2] 0.0 % [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2 | | • • • | • • • | |
| 1/22 1/2" 1/22 1/2" 1/22 1/2" Aulti-Ply Analysis asten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c., Maximum end distance not to exceed 6". add mode from the second of the second from the s | 1 SPF | | | 2 SPF |
| Image: Second State Sta | 1 | 2'2 1/2" | | 3 1/2" |
| Nutl: Ply Analysis asten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". spacing to 0.0% pacing to 0.0% ol Linit per Factor 103.11 PLF ol Linit per Factor 11.12 is End Distance 11.12 is End Distance 1.00 | 1 1 | 2'2 1/2" | | 1 |
| Numerical Sector 10 Discussion 2 cows of 10d Box nails (128x3") at 12° o.c Maximum end distance not to exceed 6°. Specify and Line of Feature 0.0 % 0.0 % ed Line of Feature 0.0 % 10.1 °F. Big Distance 3.° 10.0 °F. undor Feature 1.0 °F. 10.0 °F. micro Feature 1.0 | Multi-Dhy Analysis | | | |
| State Combination Pressure in the pressure in t | Fasten all nlies using 2 rows of 10d Box nails (128x3") at 12" | o.c. Maximum end distance | not to exceed 6" | |
| add 0.0 PUF add Linit per Factorer 90.5 lb. add Mode V tga Diatance 11/2* in End Diatance 11/2* in End Diatance 11/2* in End Diatance 100 | Capacity 0.0 % | o.e waxinan ena aistance | | |
| edd Lindar per Fastener 90.5 lb. ded Mode V tyge Distance 1.02 ine End Distance 1 ine End Distance 1 <td>Load 0.0 PLF Yield Limit per Foot 181.1 PLF</td> <td></td> <td></td> <td></td> | Load 0.0 PLF Yield Limit per Foot 181.1 PLF | | | |
| New Advance N 1/2* | Yield Limit per Fastener 90.5 lb. | | | |
| NLEM Statuto financial 3" add Combination 1.00 | Edge Distance 1 1/2" | | | |
| Net Better 1.00 | Min. End Distance 3" | | | |
| Value dention 1 Constraint of cargo is transported on only of the standard many problem provide proper dealings to prover provide program dealing to prove the composition on the standard many provide program dealings to prover the composition of provide program dealings to prove the composition of provide program dealings to prove the composition of provide program dealings to prove the composition of provide provide program dealings to prove the composition of provide | Duration Factor 1.00 | | | |
| Notes chemicals 6. For flat roofs provide proper drainage to prevent ponding Manufacturer Info Riverside Roof Truss LLC 733 River Park Drive, VA Calculated Structured Designs is responsible only of the contractor to esponsibility of the customer and/or the contractor to emport structurer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and to verify the dimensions and loads. Manufacturer Info Riverside Roof Truss LLC 733 River Park Drive, VA USA 1. UX beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be use4 Addition Riverside Roof Truss LLC 733 River Park Drive, VA USA 2. Lumber 1. Dry service conditions, unless noted otherwise 2. Damaged Beams must not be use4 Addition regarding instearally restrained Manufacturer Info Riverside Roof Truss LLC 733 River Park Drive, VA 2. LVL not to be treated with fire retardant or corrowing Design assumes top edge is laterally restrained This design is valid until 11/3/2024 This design is valid until 11/3/2024 This design is valid until 11/3/2024 | | | | |
| Refer to manufacturer's product information seponsibility of the customer and/or the contractor to provide and loads. Refer to manufacturer's product information experiments, multi-ply fastening details, beam strength values, and code approvals Design assume to verify the dimensions and loads. Design assume to peeping tableal on requirements, multi-ply fastening details, beam strength values, and code approvals Design assume to peeping tableal on requirements, multi-ply fastening details, beam strength values, and code approvals Design assume to peeping tableal on requirements, multi-ply fastening details, beam strength values, and code approvals Design assume to peeping tableal transmission to be used Provide tateral support at bearing points to avoid lateral displacement and rotation This design is valid until 11/3/2024 | Notes chemicals Calculated Structured Designs is responsible only of the structural adequacy of this component based on the 1. LVL beams must not be cut or drilled | 6. For flat roofs provide proper drainage to prever ponding | t Manufacturer Info Roseburg Forest Products 4500 Riddle By-pass Rd | Riverside Roof Truss LLC 733 River Park Drive, VA USA 24540 |
| 2. LVL not to be treated with fire retardant or corrosive lateral displacement and rotation This design is valid until 11/3/2024 RIVERSIDE ROOF TRUSS | t 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. Lumber 1. Dry service conditions, unless noted otherwise | | Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | 434 793 0217 |
| | 2. LVL not to be treated with fire retardant or corrosive lateral displacement and rotation | This design is valid until 11/3/2024 | | RIVERSIDE ROOF TRUSS |



Version 21.80.417 Powered by iStruct™ Dataset: 22022101.1447

| - | Client: | Da | te: 3/21/2022 | Page 4 of 2 |
|--|--|--|--|---|
| isDesign | Address: | Jot | Name: 22-1327 WOLVINGTON | |
| RBM1 2.0F Rigi | dlam I VI 1.750'' X 11 | Pro | bject #: Level: ROOF | |
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| 1 SPF | | | | 2 SPF // |
| <u>/</u> | | 18'1" | | 5 1/4" |
| ŕ | | 18'1" | | { |
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| lulti-Ply Analysis | | | | |
| isten all plies using 2 rc ' | ws of 10d Box nails (.128x3") at | 12" o.c Nail from both sides. | Maximum end distance not to | exceed |
| pacity | 0.0 % | | | |
| ad | 0.0 PLF | | | |
| ld Limit per Foot Id Limit per Fastener | 181.1 PLF 90.5 lb | | | |
| ld Mode | IV | | | |
| ge Distance | 1 1/2" | | | |
| a. End Distance | 3" | | | |
| ad Combination | | | | |
| ration Factor | 1.00 | | | |
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| lotes | chemicals | 6. For flat roofs provide proper drainage to p | Manufacturer Info | Riverside Roof Truss LLC 733 River Park Drive VA |
| alculated Structured Designs is responsible of | hly of the Handling & Installation | ponding | Roseburg Forest Products | USA |
| uctural adequacy of this component base sign criteria and loadings shown. It | is the 2. Refer to manufacturer's product inform | nation | 4500 Riddle By-pass Rd Riddle, OR 97469 | 24540 434 793 0217 |
| sponsibility of the customer and/or the con sure the component suitability of the | ractor to regarding installation requirements, mu intended fastening details, beam strength values. and | lti-ply code | (541) 784-4005 | -1-2-1-2-2-11 |
| plication, and to verify the dimensions and lo | ds. approvals 3. Damaged Beams must not be used | | WWW.roseburg.com | |
| Dry service conditions, unless noted otherw | 4. Design assumes top edge is laterally restrained se 5. Provide lateral support at bearing points to | avoid | ESR-1210 | |
| 2. LVL not to be treated with fire retardant or | corrosive lateral displacement and rotation | This design is valid until 11/3/2024 | | RIVERSIDE ROOF TRUSS |

This design is valid until 11/3/2024

| | | Client: | | Date: | 3/21/2022 | | | | Page 5 of 25 |
|---|--|---|--|----------------------------|---------------------------------------|---------------|-------------|----------------|--------------|
| Tisp | lesian | Project: | | Input by | /: MIKE CONNER | | | | |
| | | Address. | | Project | #: | INGTOIN | | | |
| 2BM4 2 | .0E Rigidlam LV | L 1.750" X 9.250 |)" 2-Ply - | PASSED | Level: 2ND FL | | | | |
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| | and the second | | | | | | | | |
| 1 SPF | | 2 Hanger (HU | 410 (Min)) | | | | | | |
| [| 4'7 | 7 1/2" | 1 | | | | | 1 1 | 3 1/2" |
| 1 | 4'7 | 7 1/2" | î | | | | | | |
| | | | | | | | | | |
| Member Info | ormation | | | Reactions UI | NPATTERNED I | b (Uplift) | | | |
| Туре: | Girder | Application: Floor | | Brg Direction | Live | Dead | Snow | Wind | Const |
| Plies: | 2 ion: Dn/ | Design Method: ASD | 0. 2015 | 1 Vertical | 1012 | 400 | 0 | 0 | C |
| Deflection LL: | 1011: DTY 180 | Load Sharing: No | C 2015 | 2 Vertical | 976 | 386 | 0 | 0 | C |
| Deflection TL: | 360 | Deck: Not Cl | recked | | | | | | |
| Importance: | Normal - II | | | | | | | | |
| Temperature: | Temp <= 100° F | | | | | | | | |
| General Load | | | | Bearings | | | | | |
| Floor Live: | 40 PSF | | | Bearing Leng | oth Dir Can | React D/L lb | Total I | d Case | Id Comb |
| Dead: | 20 PSF | | | 1 - SPE 3 500 | 0" Vert 27% | 400 / 1012 | 1412 I | u. 0050 | D+I |
| Snow: | 30 PSF | | | 2 - 2.500 | 0" Vert 21% | 386 / 976 | 1362 L | | D+I |
| Construction: | 30 PSF | | | Hanger | | | | | |
| Analysis Resu | ults | | | | | | | | |
| Analysis / | Actual Location | Allowed Capacity Co | mb. Case | 7 | | | | | |
| Moment | 1354 ft-lb 2'4 1/4" | 13320 ft-lb 0.102 (10%) D+ | LL | | | | | | |
| Unbraced | 1354 ft-lb 2'4 1/4" | 11850 ft-lb 0.114 (11%) D+ | LL | | | | | | |
| Shear | 781 lb 3'7 3/4" | 6259 lb 0.125 (12%) D+ | L L | | | | | | |
| LL Defl inch | 0.007 (L/7459) 2'4 5/16" | 0.106 (L/480) 0.064 (6%) L | L | | | | | | |
| TL Defl inch | 0.010 (L/5348) 2'4 5/16" | 0.142 (L/360) 0.067 (7%) D+ | L L | | | | | | |
| Design Note | S | | | 7 | | | | | |
| 1 Provide supp | ort to prevent lateral moveme | ent and rotation at the end bearing | gs. Lateral support | 1 | | | | | |
| may also be r | required at the interior bearing | gs by the building code. | n and distance not | | | | | | |
| to exceed 6". | es using 2 tows of the box ha | alis (. 12005) at 12 0.0. Maximu | n end distance not | | | | | | |
| 3 Refer to last | page of calculations for faster | ners required for specified loads. | | | | | | | |
| 4 Fill all hanger | r nailing holes. | | | | | | | | |
| 6 Top loads mu | ist be supported equally by al | l nlies | | | | | | | |
| 7 Top must be l | laterally braced at end bearing | gs. | | | | | | | |
| 8 Bottom must | be laterally braced at end bea | arings. | | | | | | | |
| 9 Lateral slende | erness ratio based on single | oly width. | | | | | | | |
| ID | Load Type | Location Trib Width Side | e Dead 0.9 | Live 1 Sr | now 1.15 Wind | 1.6 Const. 1. | 25 Comr | nents | |
| 1 | Uniform | 10-9-0 Тор | 15 PSF | 40 PSF | 0 PSF 0 I | PSF 0 P | SF F | | |
| | Self Weight | | 9 PLF | | | | | | |
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| | | | | | Manufacturer Info | | Riverside R | oof Truss II (| C |
| Notes Calculated Structured De | chem esigns is responsible only of the Handli | icals ng & Installation | For flat roofs provide ponding | proper drainage to prevent | Roseburg Forest Pr | oducts | 733 River P | 'ark Drive, VA | - |
| structural adequacy of t design criteria and I | this component based on the 1. LVL b loadings shown. It is the 2 Pofer | eams must not be cut or drilled | | | 4500 Riddle By-pas | s Rd | 24540 | 47 | |
| responsibility of the cust ensure the component | tomer and/or the contractor to t suitability of the intended faster | ding installation requirements, multi-ply ning details, beam strength values, and code | | | (541) 784-4005 | | 434 793 02 | 17 | |
| application, and to verify t Lumber | the dimensions and loads. appro 3. Dama | vals ged Beams must not be used | | | www.roseburg.com APA: PR-L289. PR- | L270, ICC-ES: | | | |
| Dry service conditions LVL not to be treated | s, unless noted otherwise d with fire retardant or corrosive | n assumes top edge is laterally restrained de lateral support at bearing points to avoid | | | ESR-1210 | ., | DET | STDE DO | OFTRUSS |
| | latera | a displacement and rotation | This design is vali | d until 11/3/2024 | | | RIVER | SIDE ROC | OF TRUSS |

Version 21.80.417 Powered by iStruct[™] Dataset: 22022101.1447

| Client: Project: Address: | Date: Input by Job Nan Project # | 3/21/2022 MIKE CONNER ne: 22-1327 WOLVINGTON #: | Page 6 of 25 |
|---|--|--|---|
| 2BM4 2.0E Rigidlam LVL 1.7 | 50" X 9.250" 2-Ply - PASSED | Level: 2ND FL | |
| | | | |
| • | • • • • • • • • • • • • • • • • • • • | | 9 1/ 3 1/2" |
| 4'7 1/2" | 1 | | |
| Fasten all plies using 2 rows of 10d Box nails (Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 181.1 PLF Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor Duration Factor 1.00 | (.128x3") at 12" o.c Maximum end distance r | not to exceed 6". | |
| Notes chemicals Calculated Structured Designs is responsible only of the tractural reference, of this company head on the | 6. For flat roofs provide proper drainage to prevent on ponding | Manufacturer Info Roseburg Forest Products | Riverside Roof Truss LLC 733 River Park Drive, VA USA |
| UNL beams must not be c 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 verify the dimensions and loads. Lumber LVL not to be treated with fire retardant or corrosive | au or anied aris product information requirements, multi-ply strength values, and code ot be used is laterally restrained at bearing points to avoid rotation | 4000 Kidale By-pass Kd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | |
| Version 21.90.417 Downrod by StructTM Dataset: 220221011447 | i his design is valid until 11/3/2024 | | KIVERSIDE KOOF IKUSS |

| | | lient [.] | | D | ate. | 3/21/2022 | | | | Page 7 of 25 |
|--|--|---|------------------------|----------------------|-----------|--------------------------------|---------------------------|--|------------------|--------------|
| 2 | F | Project: | | In | nut bv | MIKE CON | NFR | | | Tage / 0120 |
| lis | Design A | Address: | | Jo | b Name | e: 22-1327 W | VOLVINGTON | | | |
| | - | | | Pr | roiect #: | | | | | |
| 2DM6 | 2 OE Digidlam I VI | 1 750" V 0 250" | 2 DIv | DACCEI | | Level: 2ND FI | | | | |
| | 2.00 Rigiulatit LVL | 1.750 A 9.250 | 2-Fiy - | FASSEI | | | | | | |
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| 1 SPF | | 2 Hanger (HU410 | (Min)) | | | | | | | |
| | 4'7 1 | /2" | | | | | | | 1 | 3 1/2" |
| , <i>†</i> | 4'7 1 | /2" | | | | | | | | |
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| Momborini | formation | | | Desetion | | | | | | |
| | Girder | Application: Elect | | Brg Dire | | | | Snow | Wind | Const |
| Plies: | 2 | Design Method: ASD | | 1 Verti | ical | 188 | 01 | 0 | 0 | Const |
| Moisture Cond | dition: Dry | Building Code: IBC/IRC 2 | 015 | 2 Verti | ical | 182 | 88 | 0 | 0 | 0 |
| Deflection LL: | 480 | Load Sharing: No | | 2 1010 | lioui | 102 | 00 | 0 | Ū | 0 |
| Deflection TL: | 360 | Deck: Not Check | ked | | | | | | | |
| Importance: | Normal - II | | | | | | | | | |
| Temperature: | Temp <= 100°F | | | | | | | | | |
| General Load | | | | Bearings | 5 | | | | | |
| Floor Live: | 40 PSF | | | Bearing | Length | n Dir. (| Cap. React D/L lb | Total | Ld. Case | Ld. Comb. |
| Dead: | 20 PSF | | | 1 - SPF | 3.500" | Vert | 5% 91 / 188 | 279 | L | D+L |
| Snow: | 30 PSF | | | 2 - | 2.500" | Vert | 4% 88 / 182 | 269 | L | D+L |
| Construction: | 30 PSF | | | Hanger | | | | | | |
| Analysis Re | sults | | | _ | | | | | | |
| Analysis | Actual Location A | Allowed Capacity Comb | . Case | | | | | | | |
| Moment | 268 ft-lb 2'4 1/4" 1 | 3320 ft-lb 0.020 (2%) D+L | L | | | | | | | |
| Unbraced | 268 ft-lb 2'4 1/4" 1 | 1850 ft-lb 0.023 (2%) D+L | L | | | | | | | |
| Shear | 160 lb 3'7 3/4" 6 | 259 lb 0.026 (3%) D+L | L | | | | | | | |
| LL Defl inch | 0.001 2'4 5/16" 0 | 0.106 (L/480) 0.012 (1%) L | L | | | | | | | |
| TI Deflinch | (L/40090) 0.002 2'4.5/16" 0 |) 142 (I /360) 0 013 (1%) D+I | I | | | | | | | |
| | (L/27058) | | L | | | | | | | |
| Design Not | tes | | | 7 | | | | | | |
| 1 Provide sur | pport to prevent lateral movement | and rotation at the end bearings. | Lateral support | | | | | | | |
| may also b | e required at the interior bearings | by the building code. | | | | | | | | |
| 2 Fasten all p | blies using 2 rows of 10d Box nails 5" | s (.128x3") at 12" o.c. Maximum er | nd distance not | | | | | | | |
| 3 Refer to las | st page of calculations for fastene | rs required for specified loads. | | | | | | | | |
| 4 Fill all hang | er nailing holes. | | | | | | | | | |
| 5 Girders are | e designed to be supported on the | bottom edge only. | | | | | | | | |
| 7 Top must b | e laterally braced at end bearings | mes. | | | | | | | | |
| 8 Bottom mus | st be laterally braced at end beari | ngs. | | | | | | | | |
| 9 Lateral sler | nderness ratio based on single ply | v width. | | | | | | | | |
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| Notes | chemical | s 6. I | For flat roofs provide | e proper drainage to | prevent | Manufacturer | Info | Riversid 733 Riversid | er Park Drive, V | LC ′A |
| calculated Structured structural adequacy of design pritoria | of this component based on the Loadings shown It in the | ns must not be cut or drilled | ~ | | | Koseburg Fore 4500 Riddle B | esi Products y-pass Rd | USA 24540 | | |
| responsibility of the c ensure the component | customer and/or the contractor to regarding end of the intended | to manufacturer's product information g installation requirements, multi-ply | | | | Riddle, OR 97 | 469 5 | 434 793 | 0217 | |
| application, and to ver | ify the dimensions and loads. approval | g details, beam sublight values, and code s d Beams must not be used | | | | www.roseburg | .com | | ~ | |
| 1. Dry service conditi | ions, unless noted otherwise tod with fire retardent as associated 5. Provide | ssumes top edge is laterally restrained lateral support at bearing points to avoid | | | | APA: PR-L289 ESR-1210 | 9, PR-L270, IGG-ES: | | Y | |
| LVL not to be trea | area with fire retardant or corrosive lateral di | splacement and rotation | This design is va | lid until 11/3/2024 | 4 | | | RIV | ERSIDE RO | OF TRUSS |
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| | / | Client: | | | Date: | 3/21/2022 | Page 8 of 25 |
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| Í | isDesign | Project: | | | Input by | MIKE CONNER | |
| - | 130631311 | Address. | | | Project | #: | |
| 2BM5 | 2.0E Rigidlan | n LVL 1.750' | ' X 9.250" | 2-Ply - P | PASSED | Level: 2ND FL | |
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| | PF | | 2 Hanger (HU410 | (Min)) | | | |
| | | 4'7 1/2" | | / | | | 3 1/2" |
| <i>†</i> | | 4'7 1/2" | | / | | | |
| | | | | | | | |
| ID | Load Type | Location Trib | Width Side | Dead 0.9 | Live 1 Sr | now 1.15 Wind 1.6 Const. | 1.25 Comments |
| 1 | Uniform | 2-0-0 |) Тор | 15 PSF | 40 PSF | 0 PSF 0 PSF 0 | PSF F |
| | Self Weight | | | 9 PLF | | | |
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| Notes | | chemicals | 6. F | For flat roofs provide pro | oper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC 733 River Park Drive, VA |
| Calculated Struct structural adequa design criteria | tured Designs is responsible only of the acy of this component based on the and loadings shown. It is the | 1. LVL beams must not be cut or dri 2. Reference on manufacturate and | lled | | | Koseburg Forest Products 4500 Riddle By-pass Rd | USA 24540 |
| responsibility of t ensure the con | the customer and/or the contractor to mponent suitability of the intended | Refer to manufacturer's pregarding installation requir fastening details, beam strength | ements, multi-ply n values, and code | | | Kiddle, OR 97469 (541) 784-4005 | 434 793 0217 |
| application, and to Lumber | to verity the dimensions and loads. | approvals 3. Damaged Beams must not be us 4. Design assumes top odgo is later | ed rally restrained | | | www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: | |
| Dry service co LVL not to be | onditions, unless noted otherwise e treated with fire retardant or corrosive | Design assumes top edge is later Provide lateral support at bear lateral displacement and rotation | ing points to avoid | This design is valid (| Intil 11/3/2024 | ESR-1210 | RIVERSIDE ROOF TRUSS |
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| Client: Project: Address | : | Date: Input by: Job Nam Project #: | 3/21/2022 MIKE CONNER e: 22-1327 WOLVINGTON | Page 9 of 25 |
|---|--|---|--|--|
| 2BM5 2.0E Rigidlam LVL 1 | .750" X 9.250" 2- | Ply - PASSED | Level: 2ND FL | |
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| • • • | • • | 1/2" | | |
| ••• | • • 7 | | | |
| 1 SPF | 2 Hanger (HU410 (Min)) | | | |
| 4'7 1/2" | | | | 3 1/2" |
| 4'7 1/2" | | 7 | | |
| Multi-Ply Analysis | | | | |
| Fasten all plies using 2 rows of 10d Box nai | ls (.128x3") at 12" o.c Ma | ximum end distance n | ot to exceed 6". | |
| Load 0.0 % | | | | |
| Yield Limit per Foot181.1 PLFYield Limit per Fastener90.5 lb. | | | | |
| Yield Mode IV Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination Duration 1.00 | | | | |
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| Notes chemicals | 6. For flat ro | ofs provide proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
| Calculated Structured Designs is responsible only of the structural adequacy of this component based on the 1 1VI beams must no | llation ponding | , ppor aramage to provent | Roseburg Forest Products 4500 Riddle Bv-pass Rd | 733 River Park Drive, VA USA 24540 |
| design criteria and loadings shown. It is the 2. Refer to manufresponsibility of the customer and/or the contractor to the component suitability of the intended ensure the component suitability of the intended | acturer's product information tion requirements, multi-ply eam strength values, and code | | Riddle, OR 97469 (541) 784-4005 | 434 793 0217 |
| application, and to verify the dimensions and loads. approvals Lumber 4. Design assumes tor 4. Design assumes tor | ust not be used o edge is laterally restrained | | www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: | |
| 2. LVL not to be treated with fire retardant or corrosive 3. LVL not to be treated with fire retardant or corrosive | port at bearing points to avoid and rotation This des | ign is valid until 11/3/2024 | ESK-1210 | RIVERSIDE ROOF TRUSS |
| Version 21.80.417 Powered by iStruct™ Dataset: 22022101 1447 | | | | |





| Project Input By: Miller CONDRER Address: Address: Address: Address: Address: 2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED Level: 2ND FL Imput By: Imput By: Imput By: Imput By: Imput By: Mile: Colspan="2">Colspan="2" Colspan="2"C | / | Clie | nt: | Dat | e: 3/21/2022 | Page 12 of 2 |
|--|------------------------------|-----------------|--------------------------|------------------------|---------------------------|--------------|
| Address: 2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED level: 2ND FL level: 2ND FL level: 2ND FL level: 2ND FL 1SPF 2.SFF 3.SPF End Grain 4.SPF 4 16'11" 4'5" Wulti-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Segoelly 0.0 % and 0.0 PUF fed Limb per Foot 2.71.6 PUF fed Limb per Foot 1.12" inter Mode and 3" and Combination inter Modenne 3" an | | Proj | ject: | Inpu | It by: MIKE CONNER | |
| Project #: 2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED Level: 2ND FL Image: Second control of the second control of | isDesign | Add | Iress: | Job | Name: 22-1327 WOLVINGTON | |
| 2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED Level: 2ND FL Image: Second Seco | | | | Pro | ject #: | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 2BM3 2.0E Ric | idlam LVL | 1.750" X 16.000 |)" 2-Plv - PASSE | Level: 2ND FL | |
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| 1 SPF 2 SPF 3 SPF End Grain 4 SPF 4 SPF 4 SPF 16'11" 5'1" 23' 4'3 1/2" Multi-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 271.6 PLF Yield Limit per Fastener 90.5 lb. Yield Stance 1 1/2" Min. End Distance 3" Load Combination 0.0 Duration Factor 1.00 | · · · · · · · · | | | <u>. M M</u> | | |
| 1 SPF 2 SPF 3 SPF End Grain 4 SPF / A 16'11" 5'1" 23' 4' Multi-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 271.6 PLF Yield Limit per Fastener 90.5 lb. Yield Limit per Fastener 90.5 lb. Yield Limit per Fastener 3" Load Combination Duration Factor 1.00 | | · · · · · · · | | <u></u> | · · · · · · · · · · · · · | <u>····</u> |
| Ibit11" 5'1" 23' #3 1/2" Multi-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 271.6 PLF Yield Limit per Fastener 90.5 lb. Yield Mode IV Edge Distance 3" Load 0.0 Duration Factor 1.00 | 1 SPF | | 2 SPF 3 SPF Er | nd Grain | | |
| Multi-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity 0.0 % Load 0.0 PLF Yield Limit per Fastener 90.5 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination 1.00 | / | 16'11" | 5'1" | <i>i</i> | 23' | 3 1/2" |
| 1 45' 1 Multi-Ply Analysis Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity Load 0.0 PLF Vield Limit per Foot 271.6 PLF Vield Limit per Fastener 90.5 lb. Vield Mode V Edge Distance 11/2" Min. End Distance 3" Load Combination Duration Factor 1.00 | 1 | 1011 | 1 51 | | 25 | 10 112 |
| Capacity0.0 %Load0.0 PLFYield Limit per Foot271.6 PLFYield Limit per Fastener90.5 lb.Yield ModeIVEdge Distance1 1/2"Min. End Distance3"Load CombinationIDuration Factor1.00 | Fasten all plies using 3 | rows of 10d Box | nails (.128x3") at 12" c | o.c Maximum end distan | ce not to exceed 6". | |
| Load0.0 PLFYield Limit per Foot271.6 PLFYield Limit per Fastener90.5 lb.Yield ModeIVEdge Distance1 1/2"Min. End Distance3"Load CombinationIDuration Factor1.00 | Capacity | 0.0 % | | | | |
| The full perform271.8 PErformYield Limit per Fastener90.5 lb.Yield ModeIVEdge Distance1 1/2"Min. End Distance3"Load CombinationIonDuration Factor1.00 | L0ad Viold Limit por East | | | | | |
| Nield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Io0 | Vield Limit per Fool | 27 1.0 FLF | | | | |
| Edge Distance1 1/2"Min. End Distance3"Load Combination | Yield Mode | IV | | | | |
| Min. End Distance 3" Load Combination | Edge Distance | 1 1/2" | | | | |
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| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
|---|---|--|--|------------------------------|
| 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 verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation | ponding This design is valid until 11/3/2024 | Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | USA 24540 434 793 0217 |



| 1 | Clie Pro | nt: ject: | | Date: Input by: | 3/21/2022 MIKE CONNER | Page 14 of 2 |
|--|---|--|--|--------------------------|--|---------------------------------|
| IsDesign | Ado | Iress: | | Job Nam Project # | ne: 22-1327 WOLVINGTON #: | |
| 2BM2 2.0E Rig | idlam LVL | 1.750" X 16.00 | 0" 3-Ply - | PASSED | Level: 2ND FL | |
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| | | 13'1 1/4 | 'n | | 2 SPF End Grain | 5 1/4" |
| | | 13'1 1/4 | t | | ł | |
| Multi-Ply Analysis | | | | | | |
| Fasten all plies using 3 r 6". | rows of 10d Box | nails (.128x3") at 12" | o.c Nail from b | ooth sides. Ma | ximum end distance not to | exceed |
| Capacity Load | 0.0 % 0.0 PLF | | | | | |
| Yield Limit per Foot | 271.6 PLF | | | | | |
| Yield Limit per Fastener Yield Mode | 90.5 lb. IV | | | | | |
| Edge Distance | 1 1/2" | | | | | |
| Min. End Distance Load Combination | 3" | | | | | |
| Duration Factor | 1.00 | | | | | |
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| | | | | | Manufacturer Info | Riverside Roof Truss LLC |
| Notes Calculated Structured Designs is responsible | chemicals e only of the Handling & | Installation | b. For flat roofs provide pr ponding | oper drainage to prevent | Roseburg Forest Products | 733 River Park Drive, VA USA |
| structural adequacy of this component ba design criteria and loadings shown. | sed on the 1. LVL beams in It is the 2. Refer to | nust not be cut or drilled manufacturer's product information | | | 4500 Riddle By-pass Rd Riddle, OR 97469 | 24540 434 793 0217 |
| ensure the component suitability of the application, and to verify the dimensions and | e intended fastening de loads. | installation requirements, multi-ply tails, beam strength values, and code | | | (541) 784-4005 | |
| Lumber | approvals 3. Damaged B 4. Design assu | eams must not be used mes top edge is laterally restrained | | | APA: PR-L289, PR-L270, ICC-ES: | |
| Dry service conditions, unless noted othe LVL not to be treated with fire retardant | or corrosive 5. Provide late lateral displa | ral support at bearing points to avoid cement and rotation | This design is valid | until 11/3/2024 | ESK-1210 | RIVERSIDE ROOF TRUSS |

| | | C | lient: | | | Date | e: 3/21/2 | 022 | | | | Page 15 of |
|---|--|---------------------------------------|--|---------------------------------|---------------------------------|----------------------|------------------------|--------------------------------|------------|----------------------------|--------------|------------|
| Í. | Decian | P | roject: | | | Inpu | ut by: MIKE | | | | | |
| ↓ | spesign | A | adress: | | | Job Proj | Name: 22-13 | 27 WOLVINGTOR | N | | | |
| 2BM7 | 2.0E Rigid | lam LVL | 1.750" X | (16.000" | 3-Ply - | PASSE | D Level: 2N | D FL | | | | |
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| Roseburg | g • | | Roseburg | al Min The | • KRos | eburg • | No Pitter | • KRoset | urg | | MMA | 1'4" |
| • | | C. Market | · | • | • • | • | • | | • • | | (¥ ¥ \ | |
| 1 SPF | | | | | | | | 2 SPI | F L | | | |
| | | | | 13'1 1/4" | | | | | | | \vdash | 5 1/4" |
| <i>†</i> | | | | 13'1 1/4" | | | | | -/ | | | |
| | | | | | | | | | | | | |
| Member I | nformation | | A 12 12 | | | Reactions | UNPATTE | RNED Ib (Up | lift) | | | |
| Type: Plies: | Girder 3 | | Application: Design Method: | Floor ASD | | Brg Direc | tion Li al 23 | ve Dead 92 1566 | Snc 4 | 0W 11 | Wind 0 | Cons 41 |
| Moisture Co | ondition: Dry | | Building Code: | IBC/IRC 20 | 15 | 2 Vertic | al 23 al 23 | 92 1088 92 1088 | - | 36 | 0 | 3 |
| Deflection LI | L: 480 | | Load Sharing: | Yes | | | | | | | | |
| Deflection T | L: 360 | | Deck: | Not Checke | d | | | | | | | |
| Importance: | Normal - II | 0°F | | | | | | | | | | |
| General Loa | e: Iemp <= 10 ad | 0°F | | | | Bearings | | | | | | |
| Floor Live: | 40 PSF | | | | | Bearing L | enath Dir. | Cap. React | D/L lb | Fotal Lo | d. Case | Ld. Comb |
| Dead: | 20 PSF | | | | | 1-SPF 3 | 8.500" Vert | 51% 1566 | / 2392 | 3958 L | | D+L |
| Snow: | 30 PSF | | | | | 2-SPF 3 | 8.500" Vert | 45% 1088 | / 2392 | 3479 L | | D+L |
| Construction | n: 30 PSF | | | | | | | | | | | |
| Analysis R | lesults | | | | | - | | | | | | |
| Analysis | Actual | Location A | llowed Capa | city Comb. | Case | | | | | | | |
| Moment | 10765 ft-lb | 6'5 9/16" 58 | 3056 ft-lb 0.185 | (19%) D+L | L | | | | | | | |
| Choor | 10705 IL-ID 2759 Ib | 17 1/2" 1 | 3240 lb 0.713 | (71%) D+L (17%) D+l | L | | | | | | | |
| | 275910 h 0.059 (1/2590) | 6'6 5/8" 0 | 316 (I /480) 0.170 | (17%) D+L | L | | | | | | | |
| TL Defl incl | h 0.087 (L/1747) | 6'6 5/16" 0. | 422 (L/360) 0.206 | (13%) E (21%) D+L | L | | | | | | | |
| Docian No | | | | (2170) 2 2 | - | 1 | | | | | | |
| 1 Provide s | support to prevent lat | eral movement | and rotation at the | end bearings. La | ateral support | 1 | | | | | | |
| may also | be required at the in | terior bearings I | by the building code | e. Maximum and | , , L distance not | | | | | | | |
| to exceed | d 6". | DI TUU BOX NAIIS | (.128x3) at 12 0.0 | c. Maximum end | l distance not | | | | | | | |
| 3 Refer to la | ast page of calculation | ons for fastener | s required for speci | fied loads. | | | | | | | | |
| 4 Girders al 5 Top loads | re designed to be su s must be supported | pported on the l | bottom edge only. ies | | | | | | | | | |
| 6 Top must | be laterally braced a | at end bearings. | | | | | | | | | | |
| 7 Bottom m | nust be laterally brace | ed at end bearin | igs. | | | | | | | | | |
| ID | Load Type | La on single ply | ocation Trib Wid | dth Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 C | onst. 1.25 | Comn | nents | |
| 1 | Uniform | | 9-1-8 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | F | | |
| 2 | Part. Uniform | 0-0-0 | to 2-5-8 | Тор | 50 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | W | | |
| 3 | Part. Uniform | 0-0-0 | to 2-5-8 9-1-0 | Тор | 20 PSF | 0 PSF | 20 PSF | 0 PSF | 20 PSF | R | | |
| | Self Weight | | | | 22 PLF | | | | | | | |
| | | | | | | | | | I – | | | |
| Notes | red Designs is responsible and | chemicals | & Installation | 6. For por | r flat roofs provide p nding | roper drainage to pr | event Manufac | Eorest Products | | iverside Ro 33 River Pa | ark Drive, V | 4 |
| structural adequace design criteria a | by of this component based and loadings shown. It is | on the 1. LVL beam is the 2 Refer | s must not be cut or drilled | , information | | | 4500 Ride | lle By-pass Rd | U 24 | 5A 4540 | - | |
| responsibility of the ensure the comp | e customer and/or the contra conent suitability of the in | ctor to regarding tended fastening | installation requirement details, beam strength value | its, multi-ply ues, and code | | | Riddle, O (541) 784 | r 97469 -4005 | 43 | 34 793 021 | 17 | |
| application, and to v | venny the dimensions and loads | s. approvals 3. Damaged | Beams must not be used | estrained | | | www.rose APA: PR- | burg.com L289, PR-L270, IC0 | C-ES: | | | |
| Dry service con LVL not to be tr | iditions, unless noted otherwise reated with fire retardant or co | 5. Provide la rrosive lateral dis | ateral support at bearing p placement and rotation | oints to avoid | nis design is valid | until 11/3/2024 | ESR-121 | J | | RIVER | SIDE RO | OF TRUSS |

Version 21.80.417 Powered by iStruct™ Dataset: 22022101.1447

| | Client: Project: | | Date: Input by | 3/21/2022 : MIKE CONNER | Page 16 of 2 |
|---|--|-----------------------------------|---------------------------------|--|--|
| isDesign | Address: | | Job Nar Project | ne: 22-1327 WOLVINGTON | |
| 2BM7 2.0E Rigi | dlam LVL 1.750") | K 16.000" 3-PI | y - PASSED | Level: 2ND FL | |
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| | • • • | | ••• | | ₩ ¹ '4" |
| 1 SPF | | <u> </u> | <u> </u> | 2 SPF | \overline{X} $\overline{\Pi}$ \overline{Y} |
| | | 13'1 1/4" | | | 5 1/4" |
| | | 13 1 1/4 | | | |
| Multi-Ply Analysis | owe of 10d Roy pails (129) |)") at 12" a.c. Mail fra | m both sides. Ma | wimum and distance not to | avcod |
| 6". | | | im doth sides. Ma | iximum end distance not to | exceed |
| Capacity Load | 0.0 % 0.0 PLF | | | | |
| Yield Limit per Foot | 271.6 PLF | | | | |
| Yield Limit per Fastener | 90.5 lb. | | | | |
| Yield Mode Edge Distance | IV 1 1/2" | | | | |
| Min. End Distance | 3" | | | | |
| Load Combination | C C | | | | |
| Duration Factor | 1.00 | | | | |
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| Notes | chemicals | 6. For flat roofs prov | ride proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
| Calculated Structured Designs is responsible | only of the Handling & Installation | ponding | propor anamago to prevent | Roseburg Forest Products | 733 River Park Drive, VA USA |
| structural adequacy of this component bas design criteria and loadings shown. | ed on the 1. LVL beams must not be cut or drilled t is the 2. Refer to manufacturer's produ | ct information | | 4500 Riddle By-pass Rd Riddle, OR 97469 | 24540 434 793 0217 |
| responsibility of the customer and/or the co ensure the component suitability of the application and to work the discussion | intended regarding installation requirement fastening details, beam strength va | nts, multi-ply lues, and code | | (541) 784-4005 | .07100 0211 |
| Lumber | 3. Damaged Beams must not be used | restrained | | www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: | |
| Dry service conditions, unless noted other LVL not to be treated with fire retardant of | vise 5. Provide lateral support at bearing lateral displacement and rotation | points to avoid This design in | valid until 11/3/2024 | ESR-1210 | RIVERSIDE ROOF TRUSS |
| | | I his design is | vang until 11/3/2024 | | VIA TURNE ROOT IRUSS |

| | | Client: | | Date: | 3/21/2022 | | | | Page 17 of 2 |
|---|---|--|--------------------------------|--------------------------|-----------------------|---------------------------------|---|----------------------------------|--------------|
| Tis | Design | Project: | | Input Job N | by: MIKE CONNE | | | | |
| | | Address. | | Projec | ct #: | VINGTON | | | |
| 2BM6 | 2.0E Rigidlam LV | L 1.750" X 16.000 | " 3-Ply | - PASSED | Level: 2ND FL | | | | |
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| Roseburg | | •/ | | | | | | XIXIX | 1'4" |
| • | Constant of Constant of Constant | | | | | | | (W W V | |
| 1 SPF End | Grain 2 Hanger (HU5.12 | 5/12) | | | | | | | |
| | 4'5 3/4" | | | | | | | | 5 1/4" |
| 1 | 4'5 3/4" | 1 | | | | | | | |
| Member Inf | formation | | | Reactions I | UNPATTERNED | lb (Uplift) | | | |
| Туре: | Girder | Application: Floor | | Brg Directio | on Live | Dead | Snow | Wind | Const |
| Plies: Moisture Conc | 3 dition: Dn/ | Design Method: ASD | 2015 | 1 Vertical | 839 | 961 | 509 | 0 | 509 |
| Deflection LL: | 480 | Load Sharing: Yes | 2015 | 2 Vertical | 863 | 667 | 262 | 0 | 262 |
| Deflection TL: | 360 | Deck: Not Chec | ked | | | | | | |
| Importance: | Normal - II | | | | | | | | |
| Temperature: | Temp <= 100°F | | | Boorings | | | | | |
| General Load | 40 PSF | | | Bearing Lo | nath Dir Car | Booot D/L lb | Total | | Id Comb |
| Dead: | 20 PSF | | | 1-SPF 17 | 750" Vert 29º | 5. React D/L ID % 961 / 1011 | 1972 | Lu. Case | D+0 75(1+8 |
| Snow: | 30 PSF | | | End | | | 1072 | - | DIGHOLD |
| Construction: | 30 PSF | | | Grain | 500" Vert 169 | 667/863 | 1530 | 1 | D+I |
| Analysis Re | sults | | | Hanger | vent 10 | 0077003 | 1550 | L | DIE |
| Analysis | Actual Location | Allowed Capacity Comb | o. Case | | | | | | |
| Moment | 1/16 π-ID 2' 1/8" 1821 ft_lb 2' 1/8" | 58056 π-ID 0.030 (3%) D+L | L /5(I +S) I | | | | | | |
| Shear | 635 lb 2'11 1/4" | 16240 lb 0.039 (4%) D+L | L | | | | | | |
| LL Defl inch | 0.001 2'2 1/8" | 0.106 (L/480) 0.008 (1%) 0.75(L | _+C) Uniform | | | | | | |
| TL Doff inch | (L/59309) | 0 142 (I /360) 0 011 (1%) D+0 7 | (I +C) Uniform | | | | | | |
| | (L/31408) | 0.142 (2/300) 0.011 (170) 0.07 | | 4 | | | | | |
| Design Not | es | ant and rotation at the and bearings | Latoral support | 4 | | | | | |
| may also be | e required at the interior bearin | gs by the building code. | | | | | | | |
| 2 Fasten all p to exceed 6 | blies using 3 rows of 10d Box n 5". | ails (.128x3") at 12" o.c. Maximum e | nd distance not | | | | | | |
| 3 Refer to las | st page of calculations for faste | ners required for specified loads. | | | | | | | |
| 4 Fill all hang | er nailing holes. | he bottom edge only | | | | | | | |
| 6 Top loads n | nust be supported equally by a | Il plies. | | | | | | | |
| 7 Top must be | e laterally braced at end bearin | igs. | | | | | | | |
| 9 Lateral slen | nderness ratio based on single | ply width. | | | | | | | |
| | 5 | | | - | | | | | |
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| | | | | | | | | | |
| Notes | chen Designs is responsible only of the Handl | nicals 6. | For flat roofs provide ponding | proper drainage to preve | ent Manufacturer Infe | 0 Producte | Riverside 733 Rive | Hoof Truss LL r Park Drive, V | A |
| structural adequacy of design criteria and | of this component based on the 1. LVLI I loadings shown. It is the 2 Porto | beams must not be cut or drilled | | | 4500 Riddle By-pa | ass Rd | USA 24540 | 0047 | |
| responsibility of the c ensure the compon | customer and/or the contractor to regal faste | rding installation requirements, multi-ply ning details, beam strength values, and code | | | (541) 784-4005 | | 434 793 | 0217 | |
| Lumber | 3. Dam 4. Desi | ovais aged Beams must not be used gn assumes top edge is laterally restrained | | | APA: PR-L289, PF | n R-L270, ICC-ES: | | | |
| 2. LVL not to be treat | ted with fire retardant or corrosive 5. Prov | ide lateral support at bearing points to avoid al displacement and rotation | This design is valid | d until 11/3/2024 | ESK-1210 | | RIVI | ERSIDE RO | OF TRUSS |

Version 21.80.417 Powered by iStruct[™] Dataset: 22022101.1447



| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
|---|---|--|--|------------------------------|
| 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 verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | Handling & Installation 1. UX beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-piy fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation | ponding This design is valid until 11/3/2024 | Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | USA 24540 434 793 0217 |



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6".

| Capacity | 0.0 % | |
|--------------------------|-----------|--|
| Load | 0.0 PLF | |
| Yield Limit per Foot | 271.6 PLF | |
| Yield Limit per Fastener | 90.5 lb. | |
| Yield Mode | IV | |
| Edge Distance | 1 1/2" | |
| Min. End Distance | 3" | |
| Load Combination | | |
| Duration Factor | 1.00 | |

| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
|---|---|--|--|------------------------------|
| 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 verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation | ponding This design is valid until 11/3/2024 | Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | USA 24540 434 793 0217 |

| | | С | lient: | | | | | Date | e: | 3/21/202 | 22 | | | | Page 20 of 2 |
|--|---|--|--|----------------------------------|--------------------|-------------------|---------------|------------|--------|---------------------------|----------------------|----------------|---|------------------------------------|--------------|
| ~ | | P | roject: | | | | | Inpu | ut by: | MIKE C | ONNER | l | | | |
| | isDesign | A | ddress: | | | | | Job | Name | : 22-1327 | WOLV | INGTON | | | |
| | | | | | | | | Proj | ect #: | | | | | | |
| 2BM1 | 2.0E Rigidlam | | 1.75 |)" X 16 | .000" | 2-Plv | - PAS | SE | D | Level: 2ND | FL | | | | |
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| Rosebu | ra | | | | | | | | | | | | | IVIVI | |
| 1 losebu | 19 | | | | | | | | | | | | | IAIA | 1'4" |
| | | | | | | | | | | | | | | (V) | |
| 1 Hang | ger (IUS3.56/11.88 (Min)) | | | | | | | | | | | | | | / |
| 2 Hang | er (IUS3.56/11.88 (Min)) | | | | | | | | | | | | | | |
| 11 | 3'4" | 1 | | | | | | | | | | | | 1 13 | 1/2" |
| | 3'4" | ł | | | | | | | | | | | | | |
| | | • | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Member | Information | | | | | | React | tions | UN | PATTER | NED II | b (Uplift) | | | |
| Туре: | Girder | | Application | n: Fl | oor | | Brg | Direct | tion | Live | | Dead | Snow | Wind | Const |
| Plies: | 2 | | Design Me | ethod: A | SD | | 1 | Vertica | al | 400 |) | 175 | 0 | 0 | 0 |
| Moisture Co | ondition: Dry | | Building C | ode: IE | 8C/IRC 2015 | | 2 | Vertica | al | 400 |) | 175 | 0 | 0 | 0 |
| Deflection L | L: 480 | | Load Shar | ing: N | 0 | | | | | | | | | | |
| Deflection 1 | TL: 360 | | Deck: | N | ot Checked | | | | | | | | | | |
| Importance | : Normal - II | | | | | | | | | | | | | | |
| Temperatur | re: Temp <= 100°F | | | | | | Beer | | | | | | | | |
| General Lo | ad | | | | | | Beari | ngs | | | | | | | |
| Floor Live: | 40 PSF | | | | | | Bear | ing L | ength | n Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
| Dead: | 20 PSF | | | | | | 1 - | 3 | 8.500" | Vert | 11% | 175 / 400 | 575 | L | D+L |
| Snow: | 30 PSF | | | | | | Hang | ger | | | | | | | |
| Constructio | n: 30 PSF | | | | | | 2 - | 3 | 8.500" | Vert | 11% | 175 / 400 | 575 | L | D+L |
| Analysis F | Results | | | | | | | yei | | | | | | | |
| Analysis | Actual Loc | ation A | llowed | Capacity | Comb. | Case | | | | | | | | | |
| Moment | 421 ft-lb | 1'8" 37 | 7215 ft-lb | 0.011 (1%) | D+L | L | | | | | | | | | |
| Unbraced | 421 ft-lb | 1'8" 3 <i>′</i> | 1741 ft-lb | 0.013 (1%) | D+L | L | | | | | | | | | |
| Shear | 77 lb | 1'6" 10 | 0827 lb | 0.007 (1%) | D+L | L | | | | | | | | | |
| LL Defl inc | ch 0.000 | 1'8" 0. | 078 (L/480) | 0.003 (0%) | L | L | | | | | | | | | |
| | (L/173986) | | | | | | | | | | | | | | |
| TL Defl ind | ch 0.000 | 1'8" 0. | 104 (L/360) | 0.003 (0%) | D+L | L | | | | | | | | | |
| | (L/121112) | | | | | | ┥ | | | | | | | | |
| Design N | otes | | | | | | 4 | | | | | | | | |
| 1 Provide may also | support to prevent lateral me be required at the interior t | ovement bearings l | and rotation a by the buildin | at the end be a code. | earings. Later | ral support | | | | | | | | | |
| 2 Fasten a | Ill plies using 3 rows of 10d | Box nails | (.128x3") at | 12" o.c. Max | imum end di | stance not | | | | | | | | | |
| to excee | d 6". | | | | | | | | | | | | | | |
| 3 Refer to | last page of calculations for | fastener | s required for | specified lo | ads. | | | | | | | | | | |
| 5 Girders | anger nailing noies. are designed to be supporte | d on the | hottom edge | only | | | | | | | | | | | |
| 6 Top load | s must be supported equally | y by all pl | ies. | only. | | | | | | | | | | | |
| 7 Top mus | t be laterally braced at end | bearings. | | | | | | | | | | | | | |
| 8 Bottom r | nust be laterally braced at e | nd bearin | ngs. | | | | | | | | | | | | |
| 9 Lateral s | lenderness ratio based on s | single ply | width. | | | | | | | | | | | | |
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| L | | | | | | | | | | | | | | | |
| Notes | | chemicals | 0 1 | | 6. For fla | t roofs provide p | proper draina | ige to pre | event | Manufactu | er Info | | Riverside 733 Rive | e Roof Truss LL r Park Drive, V | A A |
| Calculated Structu structural adequa | red Designs is responsible only of the cy of this component based on the | 1. LVL beam | A Installation is must not be cut o | r drilled | ponulli | 2 | | | | Roseburg F 4500 Riddle | orest Pro By-pass | oducts s Rd | USA 24540 | | |
| design criteria responsibility of the | and loadings shown. It is the he customer and/or the contractor to | 2. Refer to regarding | manufacturer's installation re | product inform quirements, mu | nation Ilti-ply | | | | | Riddle, OR | 97469 | | 434 793 | 0217 | |
| application, and to | verify the dimensions and loads. | fastening approvals | details, beam stre | ngth values, and | code | | | | | www.rosebu | irg.com | | | ~ | |
| 1. Drv service co | nditions, unless noted otherwise | Jamaged Design as | Beams must not be sumes top edge is | e used laterally restrained | avaid | | | | | APA: PR-L2 ESR-1210 | 89, PR-l | _270, ICC-ES: | | Y Y | |
| 2. LVL not to be | treated with fire retardant or corrosive | J. Provide la lateral dis | placement and rota | tion | This o | design is valio | l until 11/3 | /2024 | | | | | RIVI | ERSIDE RO | OF TRUSS |
| 1 | | | | | | | | | | | | | | | |

| | | Client: | | | Date: | 3/21/2 | 2022 | | Page 21 of 2 |
|---|--|---|--|--|--------------------------|------------------------|--------------------------------|-------------|--|
| 1 | isDesign | Project: Address: | | | Input Job N | by: MIKE ame: 22-13 | CONNER 27 WOLVINGTO | N | |
| - | | | | | Projec | ot #: | | | |
| 2BM1 | 2.0E Rigidlam | 1 LVL 1.7 | 750'' X 16.00 | 00" 2-Ply | - PASSED | Level: ZN | | | |
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| Boseb | | / | | | | | | | M |
| 110000 | | | | | | | | | 1'4" |
| 1 Har | nger (IUS3.56/11.88 (Min)) | | | | | | | | |
| 2 Han | ger (IUS3.56/11.88 (Min)) 3'4" | 7 | | | | | | | 3 1/2" |
| | 3'4" | 1 | | | | | | | |
| | | | | | | | | | |
| ID | Load Type | Location | Trib Width Sid | le Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
| 1 | Uniform Self Weight | | 6-0-0 Тор | 0 15 PSF 15 PLF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | F |
| | con troigin | | | | | | | | |
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| | | chomicala | | 6 Ear flat made and a | propor drainess to a | Manufac | turer Info | | Riverside Roof Truss LLC |
| Notes Calculated Struct structural adequ | ctured Designs is responsible only of the uacy of this component based on the | Handling & Installa | tion e cut or drilled | For riat roofs provide ponding | proper urainage to preve | Roseburg | Forest Products | | 733 River Park Drive, VA USA 24540 |
| design criteria responsibility of ensure the co | and loadings shown. It is the the customer and/or the contractor to omponent suitability of the intended | Refer to manufacture regarding installation fastening details, bear | urer's product information n requirements, multi-ply m strength values, and code | | | Riddle, C (541) 784 | R 97469 -4005 | | 434 793 0217 |
| application, and Lumber | to verify the dimensions and loads. | approvals 3. Damaged Beams must 4. Design assumes top ed | not be used dge is laterally restrained | | | APA: PR | eburg.com L289, PR-L270, IC | CC-ES: | |
| 2. LVL not to b | e treated with fire retardant or corrosive | Provide lateral suppor lateral displacement an | rt at bearing points to avoid ad rotation | This design is vali | d until 11/3/2024 | ESK-121 | U | | RIVERSIDE ROOF TRUSS |

| Clier Proje isDesign Addr | nt: port: ress: | Date: Input by: Job Name Proiect #: | 3/21/2022 MIKE CONNER e: 22-1327 WOLVINGTON | Page 22 of 2 |
|--|-----------------------|--|---|------------------------|
| 2BM1 2.0E Rigidlam LVL | 1.750" X 16.000" | 2-Ply - PASSED | Level: 2ND FL | |
| 1 Hanger (IUS3.56/11.88 (Min)) 2 Hanger (IUS3.56/11.88 (Min)) 3'4" 3'4" | | | | 1'4" 1'4" 3 1/2" |

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| Capacity | 0.0 % |
|--------------------------|-----------|
| Load | 0.0 PLF |
| Yield Limit per Foot | 271.6 PLF |
| Yield Limit per Fastener | 90.5 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Riverside Roof Truss LLC |
|---|---|--|--|--|
| 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 verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation | ponding This design is valid until 11/3/2024 | Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | V33 RIVEP Park Drive, VA USA 24540 434 793 0217 RIVERSIDE ROOF TRUSS |

| | | lient: | | Date: | 3/21/2022 | | | | Page 23 of 2 |
|---|--|--|--------------------------------|----------------------------|---|------------------|----------------------------|------------------------------|--------------|
| | F | Project: | | Input by: | MIKE CONNE | R | | | 5 |
| is | sDesign A | ddress: | | Job Nan | ne: 22-1327 WOLV | /INGTON | | | |
| | | 4 750% V 40 000 | | Project # | #: Level: 1ST FI | | | | |
| 1BM3 | 2.0E Rigidiam LVL | 1.750" X 16.000 | 2-Piy | - PASSED | | | | | |
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| Roseburg | • • • | • | | | | | | X X X | 1'4" |
| • | | | | | | | | / W V | 1 |
| 1 SPF | 2 SF | PF . | | | | | | | |
| | 416 1/0" | \rightarrow | | | | | | | 1/0" |
| | 46 1/2 | | | | | | | 3 | 1/2 |
| 1 | 4'6 1/2" | 1 | | | | | | | |
| | | | | | | | | | |
| Member In | formation | | | Reactions UN | IPATTERNED | b (Uplift) | | | |
| Type: Blics: | Girder | Application: Floor | | Brg Direction | Live | Dead S | Snow | Wind | Const |
| Moisture Cor | dition: Drv | Building Code: IBC/IRC | 2015 | 1 Vertical | 273 | 130 | 0 | 0 | 0 |
| Deflection LL | .: 480 | Load Sharing: No | | | 210 | 100 | 0 | Ū | 0 |
| Deflection TL | .: 360 | Deck: Not Chec | ked | | | | | | |
| Importance: | Normal - II | | | | | | | | |
| Temperature: | : Temp <= 100°F | | | Boarings | | | | | |
| General Load | 1 40 PSF | | | Bearing Long | th Dir Can | React D/L lb | Total | d Casa | Id Comb |
| Dead: | 20 PSF | | | 1 - SPE 3 500 | lli Dir. Cap I" Vert 8% | 136 / 273 | 408 I | .u. Case | D+I |
| Snow: | 30 PSF | | | 2 - SPF 3.500 | "Vert 8% | 136 / 273 | 408 L | _ | D+L |
| Construction: | 30 PSF | | | | | | | | |
| Analysis Re | esults | | | | | | | | |
| Analysis | Actual Location A | Ilowed Capacity Comb | o. Case | 7 | | | | | |
| Moment | 375 ft-lb 2'3 1/4" 3 | 7215 ft-lb 0.010 (1%) D+L | L | | | | | | |
| Unbraced | 375 ft-lb 2'3 1/4" 2 | 6855 ft-lb 0.014 (1%) D+L | L | | | | | | |
| Shear | 136 lb 1'7 1/2" 1 | 0827 lb 0.013 (1%) D+L | L | | | | | | |
| LL Defl inch | 0.000 2'3 5/16" 0 (L/155974) | .102 (L/480) 0.003 (0%) L | L | | | | | | |
| TL Defl inch | 0.000 2'3 5/16" 0 | .136 (L/360) 0.003 (0%) D+L | L | | | | | | |
| | (L/104111) | | | 4 | | | | | |
| Design No | tes | | 1 - 4 1 | 4 | | | | | |
| may also b | pport to prevent lateral movement be required at the interior bearings | by the building code. | Lateral support | | | | | | |
| 2 Fasten all | plies using 3 rows of 10d Box nails | s (.128x3") at 12" o.c. Maximum e | nd distance not | | | | | | |
| 3 Refer to la | o . Ist page of calculations for fastene | s required for specified loads. | | | | | | | |
| 4 Girders are | e designed to be supported on the | bottom edge only. | | | | | | | |
| 5 Top loads 6 Top must b | must be supported equally by all p be laterally braced at end bearings | lies. | | | | | | | |
| 7 Bottom mu | ust be laterally braced at end bearings | ngs. | | | | | | | |
| 8 Lateral sle | nderness ratio based on single ply | width. | | | | | | | |
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| Notes | chemical | s 6. | For flat roofs provide ponding | proper drainage to prevent | Manufacturer Info | | Riverside F 733 River F | oof Truss LL ark Drive, V | .C A |
| Calculated Structure structural adequacy design critoria | d Designs is responsible only of the Handling of this component based on the I. LVL bear | c installation ns must not be cut or drilled | | | Roseburg Forest P 4500 Riddle By-pas | roducts ss Rd | USA 24540 | | |
| responsibility of the ensure the compo | customer and/or the contractor to nent suitability of the intended fastening | o manuracturer's product information installation requirements, multi-ply details, beam strength values and code | | | Riddle, OR 97469 (541) 784-4005 | | 434 793 02 | 17 | |
| application, and to ve Lumber | erify the dimensions and loads. approval: 3. Damager | s d Beams must not be used | | | www.roseburg.com APA: PR-L289. PR | -L270, ICC-ES: | | | |
| Dry service condi LVL not to be tree | itions, unless noted otherwise ated with fire retardant or corrosive | ssumes top edge is laterally restrained lateral support at bearing points to avoid splacement and rotation | This design is" | Luptil 11/2/2004 | ESR-1210 | | RIVET | STDE PO | OFTRUSS |
| | internal dis | | i nis design is valio | i until 11/3/2024 | | | RIVER | TOTAL RO | OL IKU22 |

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| isDesign | Client: Project: Address: | Date: Input by: Job Nam | 3/21/2022 MIKE CONNER ne: 22-1327 WOLVINGTON | Page 24 of 25 |
|--|---|---|---|--|
| 1BM3 2.0E Rigidlan | n LVL 1.750" X 16.00 | Project # 00" 2-Ply - PASSED | t: Level: 1ST FL | |
| 1 | | | I | п 1 |
| 1 SPF | 2 SPF | | | 1'4" 3 1/2" |
| I 4'6 1/2" ID Load Type 1 Uniform Self Weight | Location Trib Width Side 3-0-0 Top | e Dead 0.9 Live 1 Sn 15 PSF 40 PSF 15 PLF | ow 1.15 Wind 1.6 Const. 1.2 0 PSF 0 PSF 0 PS | 5 Comments F F |
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| Notes 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 cutichtility of the interviet. | chemicals Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply | For flat roofs provide proper drainage to prevent ponding | Manufacturer Info Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 284.4005 | Riverside Roof Truss LLC 733 River Park Drive, VA USA 24540 434 793 0217 |
| application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | rastering details, beam strength values, and code approvals Damaged Beams must not be used A. Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation | This design is valid until 11/3/2024 | WW.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | RIVERSIDE ROOF TRUSS |

| 1 | Client: Project: isDesign Address: | Date: 3/21/2022 Input by: MIKE CONNER Job Name: 22-1327 WOLVINGTON Project #: | Page 25 of 2 |
|-----------------------|--|--|------------------------|
| 1BM3 | 2.0E Rigidlam LVL 1.750" X 16.000" | 2-Ply - PASSED | |
| · · · · · | · · · · · · · · · · · · · · · · · · · | | 1'4" 1'4" 3 1/2" |

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| Capacity | 0.0 % | |
|--------------------------|-----------|--|
| Load | 0.0 PLF | |
| Yield Limit per Foot | 271.6 PLF | |
| Yield Limit per Fastener | 90.5 lb. | |
| Yield Mode | IV | |
| Edge Distance | 1 1/2" | |
| Min. End Distance | 3" | |
| Load Combination | | |
| Duration Factor | 1.00 | |
| | | |

| | | | Menufactures Info | Piverside Reef Truce LLC |
|---|---|--|--|--|
| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer info | 733 River Park Drive VA |
| 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 interded application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive | Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation | ponding This design is valid until 11/3/2024 | Roseburg Forest Products 4500 Riddle By-pass Rd Riddle, OR 97469 (541) 784-4005 www.roseburg.com APA: PR-L289, PR-L270, ICC-ES: ESR-1210 | USA 24540 434 793 0217 RIVERSIDE ROOF TRUSS |