| | - | | Client: | GMC Construction | on | Dat | te: | 7/26/20 | 23 | | | | Pag | e 1 of 12 |
|--|--|---------------------------------|---------------------------------------|--|---------------------------|-------------------------|----------|---------------------------|-----------------------|--------------|-------------------|----------|--------|------------|
| i i | - | | Project: | | | Inp | ut by: | Curtis (| Quick | | | | | |
| 15 | Design | | Address: | | | Job | Name | e: The Sir | nclair Bear | ms | | | | |
| | | | | | | Pro | oject #: | | -1 | | | | | |
| GDH | Kerto-S L | .VL 1 | .750" | X 11.875' | ' 2-Ply -∣ | PASSED |) | Level: Lev | el | | | | | |
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| | and the second second | | | 1 | Par Sha | | | and the second | | | | M | | 4 7 (0) |
| | | and the second | | | | | | | | All and the | | W | 1 | 1 7/8" |
| 1 SPF En | d Grain | | | | | | | | | 2 SPF En | d Grain | | | |
| / | | | | | 401401 | | | | | | | | 4/0" | |
| | | | | | 16'10" | | | | | | | . 3 | , 1/2" | |
| 1 | | | | | 16'10" | | | | | | 1 | | | |
| | | | | | | | | | | | | | | |
| Member In | formation | | | | | Reactions | s UN | PATTER | NED Ib | (Uplift) | | | | |
| Туре: | Girder | | Applica | tion: Floo | r | Brg Direc | ction | Liv | e | Dead | Snow | Wind | | Const |
| Plies: | 2 | | Design | Method: ASD | | 1 Vertic | cal | | 0 | 2182 | 0 | 0 | | 0 |
| Moisture Con | dition: Dry | | Building | Code: IBC | 2012 | 2 Vertic | al | | 0 | 2182 | 0 | 0 | | 0 |
| Deflection LL: | 480 | | Load S | haring: No | o | | | | | | | | | |
| Deflection TL: | : 360 Normal II | | Deck: | Not | Checked | | | | | | | | | |
| Temperature: | Temp <= 10 | 0°F | | | | | | | | | | | | |
| | | | | | | Bearings | | | | | | | | |
| | | | | | | Bearing | Length | h Dir. | Cap. I | React D/L lt | o Total | Ld. Case | Ld. | Comb. |
| | | | | | | 1 - SPF | 3.500" | Vert | 21% | 2182/0 | 2182 | Uniform | D | |
| | | | | | | End | | | | | | | | |
| Analysis Re | sults | | | 0 " | | | 3.500" | Vert | 21% | 2182/0 |) 2182 | Uniform | D | |
| Analysis | Actual | Location | Allowed | | comp. Case | End | | | | | | | | |
| Unbraced | 8689 ft-lb | 8'5" | 8702 ft_lb | 0.465 (46%) L |) Uniform | Grain | | | | | | | | |
| Unbraced | 0003 11-15 | 00 | 070211-10 | (100%) | , onioni | | | | | | | | | |
| Shear | 1859 lb | 15'6 5/8" | 7980 lb | 0.233 (23%) 🛛 | Uniform | | | | | | | | | |
| LL Defl inch | 0.000 (L/999) | 0 | 999.000 (L/ | 0) 0.000 (0%) | | | | | | | | | | |
| TL Defl inch | 0.453 (L/433) | 8'5 1/16" | 0.546 (L/360 | D) 0.831 (83%) D |) Uniform | _ | | | | | | | | |
| Design Not | tes | | | | | | | | | | | | | |
| 1 Provide su | pport to prevent lat | eral moveme | nt and rotatio | on at the end bear | ings. Lateral support | | | | | | | | | |
| 2 Fasten all | olies using 2 rows | of 10d Box na | ils (.128x3") | at 12" o.c. Maxim | um end distance not | | | | | | | | | |
| to exceed | 6". | | | с <u>с</u> н | | | | | | | | | | |
| 3 Refer to las 4 Girders are | st page of calculate e designed to be su | ons for fasten | ers required | for specified loads | 5. | | | | | | | | | |
| 5 Top loads r | nust be supported | equally by all | plies. | 5 | | | | | | | | | | |
| 6 Top must b | e laterally braced a | at a maximum | of 10'8 15/1 | 6" o.c. | | | | | | | | | | |
| 7 Bottom mu 8 Lateral slei | st be laterally brac | ed at end bea ed on sindle p | irings. Iv width. | | | | | | | | | | | |
| ID | Load Type | <u> </u> | Location | Trib Width Si | de Dead 0.9 | Elive 1 | Sno | ow 1.15 | Wind 1 | .6 Const. | 1.25 Co | mments | | |
| 1 | Uniform | | | То | p 250 PL | = 0 PLF | | 0 PLF | 0 PI | _F 0 | PLF | | | |
| | Self Weight | | | | 9 PL | = | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Notos | | chami | cals | | 6. For flat roofe provide | proper drainage to p | revent | Manufactu | irer Info | | Comtech | Inc. | #000 | |
| Calculated Structured | Designs is responsible onl | y of the Handlin | ng & Installati | on | ponding | , aramago to p | | Metsä Woo | od | 0 | Fayettevil | le, NC | #039 | |
| design criteria and responsibility of the | d unis component based loadings shown. It customer and/or the contra | is the 2. Refer | to manufacture | ut or drilled er's product informatio | n | | | 301 Merritt Norwalk, C | 7 Building T 06851 | , 2nd Floor | 28314 910-864- | TRUS | | |
| ensure the compor application, and to ve | nent suitability of the in rify the dimensions and load | ntended fasten s. approv | ing details, beam /als | strength values, and cod | e | | | (800) 622- www.mets | 5850 awood.com | ı/us | | | | |
| Lumber 1. Dry service condit | ions, unless noted otherwise | 3. Dama 4. Desigr | ged Beams must n n assumes top edg | ot be used e is laterally restrained | | | | | | | | | | |
| 2. LVL not to be trea | ated with fire retardant or co | orrosive 5. Provid lateral | e lateral support displacement and | at bearing points to avoi rotation | This design is va | id until 11/3/2024 | | | | | C | :omt | ec | |
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| | | | Client: | GMC Construction | ı | Date: | 7/26/2023 | Page 2 of 12 |
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| Í. | •Design | | Project: | | | Input | by: Curtis Quick | |
| - - | spesigii | | Address. | | | Projec | et #: | |
| GDH | Kerto-S | LVL | 1.750" | X 11.875" | 2-Ply - | PASSED | Level: Level | |
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| 1 SPF E | nd Grain | | | | | | 2 SPF En | d Grain |
| / | | | | | 16'10" | | | 3 1/2" |
| ├ / | | | | | 16'10" | | | |
| | | | | | | | | |
| Multi-Ply | Analysis | | | | | | | |
| Fasten all p | olies using 2 r | rows of r | 10d Box nails | (.128x3") at 12" | ' o.c Maximi | um end distance | e not to exceed 6". | |
| Capacity Load | | 0.0 9 | % ባ F | | | | | |
| Yield Limit per | Foot | 163. | 7 PLF | | | | | |
| Yield Limit per Yield Mode | Fastener | 81.9 IV | lb. | | | | | |
| Edge Distance | • | 1 1/2 | 2" | | | | | |
| Min. End Dista | ince | 3" | | | | | | |
| Duration Facto | or | 1.00 | | | | | | |
| | | | | | | | | |
| Notes | | | chemicals | 41.0.0 | 6. For flat roofs prov | vide proper drainage to preve | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 |
| calculated Structure structural adequacy design criteria a responsibility of the | ed Designs is responsible y of this component ba and loadings shown. | e only of the sed on the It is the 2 ontractor to | LVL beams must not be Refer to manufact | e cut or drilled urer's product information | | | 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | 28314 910-864-TRUS |
| ensure the comp application, and to v | onent suitability of the verify the dimensions and | e intended loads. | regarding installation fastening details, bear approvals | n requirements, multi-ply m strength values, and code | | | (800) 622-5850 www.metsawood.com/us | |
| 1. Dry service con 2. LVL not to be tr | ditions, unless noted othe reated with fire retardant | rwise 5 or corrosive | Damaged Beams must Design assumes top ed Provide lateral suppor lateral displacement on | not be used dge is laterally restrained rt at bearing points to avoid id rotation | T L: 1 · · · | | | соттесн |
| | | | atorai displacement an | | This design is | valid until 11/3/2024 | | |



Version 21.80.417 Powered by iStruct[™] Dataset: 23062201.1

| Note Note <th< th=""><th>isDesign</th><th>Client: GMC Construction Project: Address:</th><th>Date: Input by Job Nar</th><th>7/26/2023 r: Curtis Quick ne: The Sinclair Beams</th><th>Page 4 of 1</th></th<> | isDesign | Client: GMC Construction Project: Address: | Date: Input by Job Nar | 7/26/2023 r: Curtis Quick ne: The Sinclair Beams | Page 4 of 1 |
|--|--|---|--|--|--|
| Net Analysis Faster all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Maximum end distance not to exceed 6". Set and all plies using 3 rows of 10d Box nails (128x3') at 12" o.c. Max | GDH (Side Load) | Kerto-S LVL 1.750" X 18 | .000" 2-Ply - PASSEE | #: Level: Level | |
| Material 1010 18PF End Geal 28FF End Geal 1010 1010 1610 ¹¹ 1610 ¹¹ Setting all pless using 3 rous of 10d Box nails (128x3") at 12° o.c. Maximum end distance not to exceed 6°. Caudity 100 Prime 240 Prime Via Unit per feat 240 Prime Caudity 100 Prime 100 | | | | | |
| Net Network 2 super field Gain 2 | | | | | |
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| Image: set of the set of | 1 SPF End Grain | <u> </u> | ••••• | •••••••••••••••••••••••••••••••••••••• | |
| Multi-Ply Analysis Easten all plies using 3 rows of 10d Box nails (128/3") at 12° o.c. Maximum end distance not to exceed 6°. Capacity 0.0% Capacity 0.0% Multi-Ply Analysis Diamon Factor 10° | ¢ | | 16'10" | | 3 1/2" |
| Multi-Ply Analysis Capacity 0.0 % Capacity 0.0 % Multi hop = Foot 246.6 PUF World Limit por = Foot 1.0 ************************************ | × | | 16'10" | | - |
| NUME-UP 4 Phases Nume and distance not to exceed 6". Capacity 0.0 % PL Ved Umip or Foot 26.0 PLF Ved Umip or Foot 3'. Land Combination 0 Duation Factor 1.0 | | | | | |
| Capacity 1 0.0 % Used 0.0 PLF Yield Link per Foot 265 PLF Yield Link per Fashner 19 b. Yield Link per Fashner 10 b. | Fasten all plies using 3 ro | ws of 10d Box nails (.128x3") at 12" | o.c Maximum end distance | not to exceed 6". | |
| Name Market Market Protect Market Pro | Capacity | 0.0 % | | | |
| Netal Unity per Fastener 91.9 lb., wyw. Edge Distance 112* Mice Ed Delance 3* Load Combination 100 Duration Factor 1.00 Net mer combination Factor 1.00 Provide Mode mer combination 100 | Load Yield Limit per Foot | 0.0 PLF 245.6 PLF | | | |
| Next Note: Not | Yield Limit per Fastener | 81.9 lb. | | | |
| NME: End Distance 3' Duration Factor 1.0 | Edge Distance | 1 1/2" | | | |
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| Notes chemicals chemicals 6. For flat roofs provide proper drainage to proper drainage to proper drainage to provent paragrament and loadings shown. It is the responsibility of the customer and/or the contractor to interval adequacy of this component based on the interval application, and to verify the dimensions and loads. chemicals 6. For flat roofs provide proper drainage to prover drainage to prover drainage to prove drainage to prote drainage to prote drainage to prove drain | | | | | |
| Notes chemicals chemicals 6. For flat roofs provide proper drainage to provent ponding Manufacturer Info Contech, Inc. 1001 S. Reilly Road, Suite #639 Calculated Structured Designs is responsible only of this component based on the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/loading shown. It is the responsibility of the customer and/loading shown. It is the there application, and to verify the dimensions and loads. C. Perfer to manufacturer's product information requirements, multiply fastening details, beams trength values, and code approvals Messa Wood Contech, Inc. Contech, Inc. Out S. Reilly Road, Suite #639 Fagetteville, NC USA 28314 Bit Statistication State in details, beams trength values, and code approvals Demage Beams must not be used State in details, beams trength values, and code approvals For works laterally restrained For works laterally restrained For works laterally prestrained For works lateral support at bearing points to avoid lateral displacement and rotation This design is valid until 11/3/2024 This design is valid until 11/3/2024 | | | | | |
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| design criteria and loadings shown. It is the responsibility of the customer and/or the contractor ensure the component suitability of the interded application, and to verify the dimensions and loads. 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us 28314 910-864-TRUS Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restained 5. Provide lateral support at loading lateral displacement and rotation This design is valid until 11/3/2024 Www.metsawood.com/us Commence provide lateral support at loading lateral displacement and rotation | Calculated Structured Designs is responsible or structural adequacy of this component based | hly of the Handling & Installation | ponaing | Metsä Wood 301 Merritt 7 Building, 2nd Floor | Fayetteville, NC USA |
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Version 21.80.417 Powered by iStruct[™] Dataset: 23062201.1

| | Client: GMC Construction | Date: | 7/26/2023 | Page 6 of 12 |
|---|---|---|--|--|
| | Project: | Input b | /: Curtis Quick | - |
| isDesign | Address: | Job Na | me: The Sinclair Beams | |
| | | Project | #: | |
| GDH 1 Karta SIVI | 1 750" ¥ 11 976 | | Level: Level | |
| GDH-1 Kerto-3 LVL | 1.750 × 11.075 | 2-FIY - FASSED | | |
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| 1 SPF End Grain | | | 2 SPF End Grain | |
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| Multi-Ply Analysis | | | | |
| Easten all plies using 2 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 163.7 PL | _F | | | |
| Yield Limit per Fastener 81.9 lb. | | | | |
| Yield Mode IV | | | | |
| Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination | | | | |
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| Notes cher | micals | 6. For flat roofs provide proper drainage to preven | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 |
| Calculated Structured Designs is responsible only of the Hand | ling & Installation | ponding | Metsä Wood | Fayetteville, NC |
| structural adequacy of this component based on the design criteria and loadings shown. It is the 2. Refe | beams must not be cut or drilled er to manufacturer's product information | | 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | 28314 040 964 TRUE |
| responsibility of the customer and/or the contractor to ensure the component suitability of the intended faste | arding installation requirements, multi-ply ening details, beam strength values, and code | | (800) 622-5850 | 310-004-1RUS |
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| 1. Dry service conditions, unless noted otherwise 2. UV set to be tracted with first set of the set | ign assumes top edge is laterally restrained vide lateral support at bearing points to avoid | | | COMTECH |
| 2. LVL HOL to be treated with the retardant or corrosive later | ral displacement and rotation | This design is valid until 11/3/2024 | | |

| | • | С | lient: | GMC Constru | ction | | | Dat | ie: | 7/26/2 |)23 | | | | Page 7 of 1 |
|------------------------|-----------------------|-------------------|----------------|---------------------|-----------------|-----------------|---------|----------|---------|------------|-----------|------------------------|--------------------|--------------------------------|-------------|
| | | Р | roject: | | | | | Inp | ut by: | Curtis | Quick | | | | 0 |
| is 🗌 | Design | A | ddress: | | | | | Job | Name | : The Si | nclair Be | ams | | | |
| | | | | | | | | Pro | ject #: | | | | | | |
| RM1 | S-P-F #2 | 2 00 | 0" X 1 | | ' 2_P | lv - P | 190 | SED | l | Level: Lev | el | | | | |
| | 5-6-1 #2 | 2.00 | U A | 0.000 | Z -L | iy - F7 | | | | | | | | | |
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| | a ritte | | 199 | | | | | | | | | | | IAIA | 9 1/4 |
| A THE AVERAGE AND | CARACTER STATE | | 1.11.11 | • | | | | | | | | | | | |
| ı 1 Hander | (JUS28-2) | | 2 Hange | r (JUS28-2) | | | | | | | | | | I | I |
| g_: | (****** | 0101 | | (*********** | + | | | | | | | | | | 0" |
| | | 3.9 | | | | | | | | | | | | I | 3" |
| 1 | | 3'9" | | | イ | | | | | | | | | | |
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| Momberle | formation | | | | | | Per | | | | | م (ا ا ما : <i>1</i> د | | | |
| | Cirdor | | Annlingt | | oor | | Rea | Dire | | | | | Sno | ای ا | 0 |
| Type: Plice: | Girder | | Application | Dn: Fi Iothod: A | 1001 SD | | BIG | Direc | uon | LIV | e | Dead | Show | vvina | Cons |
| Files. Moisture Con | dition: Dry | | Building | Code: IF | 30 2012 | | | vertic | ai | | 0 | 171 | 171 | 0 | (|
| | 480 | | Load Sh | aring N | 0 | | 2 | Vertic | al | | 0 | 183 | 183 | 0 | (|
| Deflection TL: | 360 | | Deck | ning. N | o ot Checked | | | | | | | | | | |
| Importance: | Normal - II | | Dook. | | | | | | | | | | | | |
| Temperature: | Temp <= 100 |)°F | | | | | | | | | | | | | |
| iompolataro. | lomp + lo | | | | | | Bea | rings | | | | | | | |
| | | | | | | | Be | aring I | enath | n Dir | Can | React D/I | h Total | Id Case | Id Comb |
| | | | | | | | | uning i | 2 000" | Vert | 13% | 171 / 17 | 1 342 | I Cuse | D+S |
| | | | | | | | Ha | nger | | vort | 1070 | | . 072 | - | 2.0 |
| Analysis Re | sults | | | | | | 2 - | - | 2.000" | Vert | 14% | 183 / 18 | 3 366 | L | D+S |
| Analysis | Actual | Location A | llowed | Capacity | Comb. | Case | Ha | nger | | | | | | | |
| Moment | 626 ft-lb | 1'11 1/4" 39 | 946 ft-lb | 0.159 (16% |) D+S | L | | | | | | | | | |
| Unbraced | 626 ft-lb | 1'11 1/4" 3 | 792 ft-lb | 0.165 (17% |) D+S | L | | | | | | | | | |
| Shear | 366 lb | 2'9 3/4" 28 | 872 lb | 0.128 (13% |) D+S | L | | | | | | | | | |
| LL Defl inch | 0.002 | 1'10 3/4" 0. | .089 (L/480) | 0.023 (2%) | S | L | | | | | | | | | |
| | (L/20829) | | , , | () | | | | | | | | | | | |
| TL Defl inch | 0.004 | 1'10 3/4" 0. | .118 (L/360) | 0.035 (3%) | D+S | L | | | | | | | | | |
| | (L/10415) | | | | | | ┥ | | | | | | | | |
| Design Not | tes | | | | | | 1 | | | | | | | | |
| 1 Provide sup | pport to prevent late | eral movement | and rotation | at the end be | earings. Later | ral support | | | | | | | | | |
| 2 Fasten all r | olies using 2 rows o | f 10d Box nails | (.128x3") a | t 12" o.c. Max | imum end di | stance not | | | | | | | | | |
| to exceed 6 | 6". 5 | | () | | | | | | | | | | | | |
| 3 Refer to las | st page of calculatio | ns for fastener | s required for | or specified lo | ads. | | | | | | | | | | |
| 4 Fill all hang | per nailing noies. | ported on the | hottom eda | only | | | | | | | | | | | |
| 6 Top loads r | nust be supported e | equally by all pl | ies. | 2 only. | | | | | | | | | | | |
| 7 Top must b | e laterally braced a | t end bearings. | | | | | | | | | | | | | |
| 8 Bottom mu | st be laterally brace | d at end bearir | ngs. | | | | | | | | | | | | |
| 9 Lateral sler | aerness ratio base | a on single ply | width. | THE LAC IN | 0:-! | D. 100 | | 15. 4 | | | 147 . | 10.0 | 4.05 5 | | |
| U | Load Type | Lo | ocation 1 | rid vvidth | Side | Dead 0.9 | | Live 1 | Sno | w 1.15 | Wind | 1.6 Const. | 1.25 Co | mments | |
| 1 | Point | | 1-11-4 | | Тор | 354 lb | | 0 lb | | 354 lb | |) lb | 0 lb A6 | | |
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| | | | | | | | | | | Manufact | urer Info | | Comtech 1001 S. | , Inc. Reilly Road, Suite ≢ | #639 |
| | | | | | | | | | | | | | Fayettev USA | lle, NC | |
| | | | | | | | | | | | | | 28314 910-864- | TRUS | |
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| | | | | | This o | design is valid | until 1 | 1/3/2024 | | | | | | OMT | есн |
| /amian 21.00.417 | De contra la constant | | 11 | | | - | | | | | | | | | |

CSD BUILD

| | Client: GMC Construction | Date: | 7/26/2023 | Page 8 of 12 |
|--|--------------------------------------|--------------------------------------|-----------------------|-----------------------|
| | Project: | Input by: | Curtis Quick | |
| isDesign | Address: | Job Nam | e: The Sinclair Beams | |
| | | Project # | | |
| BM1 S-P-F # | 2 2 000" X 10 000" | 2-Ply - PASSED | Level: Level | |
| | 2 2:000 X 10:000 | 2-I IY - I AOOLD | | |
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| | | 12. | | |
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| 1 Hanger (JUS28-2) | 2 Hanger (JUS28-2) | | | |
| L / | 3'9" | | | <i>↓</i> _3" |
| | | | | |
| 1 | 3'9" 1 | | | |
| | | | | |
| Multi-Dhy Analysia | | | | |
| Mulu-Fly Analysis | | | | |
| Fasten all plies using 2 r | ows of 10d Box nails (.128x3") at 12 | ' o.c Maximum end distance n | ot to exceed 6". | |
| Capacity | 0.0 % | | | |
| Load Viald Lineit nam Faat | 0.0 PLF | | | |
| Yield Limit per Foot Vield Limit per Fastener | 157.4 PLF 78 7 lb | | | |
| Yield Mode | IV | | | |
| Edge Distance | 1 1/2" | | | |
| Min. End Distance | 3" | | | |
| Load Combination | | | | |
| Duration Factor | 1.00 | | | |
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| | | | Manufacturer Info | Comtech, Inc. |
| | | | | Fayetteville, NC |
| | | | | 28314 910-864-TRUS |
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| | | This design is valid until 11/3/2024 | | |



| | Client: GMC Construction | Date: | 7/26/2023 | Page 10 of 1 |
|---|--|---|-------------------------------------|---|
| | Project: | Input by: | Curtis Quick | 5 |
| isDesign | Address: | Job Nam | e: The Sinclair Beams | |
| | | Project # | £. | |
| | | | | |
| BM2 Kerto-S LVL | 1.750" X 9.250" | 2-Ply - PASSED | | |
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| 1 SPF End Grain | | 2 SPF End | d Grain | |
| | 6'7" | | | 3 1/2" |
| / | 6'7" | | ł | |
| ' | 07 | | I | |
| | | | | |
| Multi-Ply Analysis | | | | |
| Easton all plins using 2 rows of 10 | d Roy pails (120,2") at 12" | o c Maximum and distance r | not to average 6" | |
| Pasten all piles using 2 rows of Too | u box halls (.120x3) at 12 | o.c Maximum end distance h | IOT TO EXCEED 6. | |
| Load 0.0 PLF | - | | | |
| Yield Limit per Foot 163.7 P | 1 F | | | |
| Yield Limit per Fastener 81.9 lb. | - | | | |
| Yield Mode IV | | | | |
| Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Load Combination | | | | |
| Duration Factor 1.00 | | | | |
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| | | | Manufacturer Info | Comtech, Inc. |
| Notes che Calculated Structured Designs is responsible only of the Hand | emicais dling & Installation | For flat roots provide proper drainage to prevent ponding | Metsä Wood | 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
| structural adequacy of this component based on the 1. LVI design criteria and loadings shown it is the - | L beams must not be cut or drilled | | 301 Merritt 7 Building, 2nd Floor | USA 28314 |
| responsibility of the customer and/or the contractor to ensure the component suitability of the intended | garding installation requirements, multi-ply | | Norwalk, CT 06851 (800) 622-5850 | 910-864-TRUS |
| application, and to verify the dimensions and loads. ap | provals | | www.metsawood.com/us | |
| Lumber 3. Da 1. Dry service conditions, unless noted otherwise 4. De | esign assumes top edge is laterally restrained | | | |
| 2. LVL not to be treated with fire retardant or corrosive 5. Pro | eral displacement and rotation | This design is valid until 11/3/2024 | | Comrech |
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| | Client: GMC Construction | Date: | 7/26/2023 | Page 12 of 12 |
|---|---|--|--|--|
| | Project: | Input by: | Curtis Quick | 6 |
| isDesign | Address: | Job Nam | e: The Sinclair Beams | |
| | | Project # | | |
| DM2 Karta CIVI | 4 750" V 0 250" | | Level: Level | |
| DIVIS REFLO-S LVL | 1.750 X 9.250 | 2-Ply - PASSED | | |
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| 1 SPE End Grain | | 2 SPE End | | |
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| | 6'7" | |] | 1 13 1/2" |
| / | 6'7" | | ł | |
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| Multi-Ply Analysis | | | | |
| Easten all plies using 2 rows of 10c | Box nails (128v2") at 12" | o.c. Maximum end distance n | ot to exceed 6" | |
| Capacity 0.0% | | | | |
| Load 0.0 PLF | | | | |
| Yield Limit per Foot 163.7 P | LF | | | |
| Yield Limit per Fastener 81.9 lb. | | | | |
| Yield Mode IV | | | | |
| Edge Distance 1 1/2" | | | | |
| Min. End Distance 3" | | | | |
| Duration Factor 1 00 | | | | |
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| Notes che | emicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #620 |
| Calculated Structured Designs is responsible only of the Hand | dling & Installation | ponding | Metsä Wood | Fayetteville, NC |
| structural adequacy of this component based on the 1. LVI design criteria and loadings shown. It is the 2. Ref | L beams must not be cut or drilled fer to manufacturer's product information | | 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | 28314 210 964 TRUS |
| responsibility of the customer and/or the contractor to ensure the component suitability of the intended resultion and the unit of the discussion of the intended | parding installation requirements, multi-ply tening details, beam strength values, and code | | (800) 622-5850 | 510-004-TRUS |
| Lumber 3. Date | provals maged Beams must not be used | | www.metsawood.com/us | |
| 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or correction 5. Pro- | sign assumes top edge is laterally restrained ovide lateral support at bearing points to avoid | | | соттесн |
| L. LVE NOT IS DO REALED WITH THE RELARDENT OF CONDENSE | eral displacement and rotation | This design is valid until 11/3/2024 | | |