

Version 23.40.705 Powered by iStruct[™] Dataset: 23062201.1

| is | Design | | Client: Project: Address: | WEAVER | HOMES | | h |)ate: nput by: ob Nam | 6/20/20 LENNY e: HIGHLA | NORRIS | 6 | | | Page 1 o |
|---|---|-----------------------------------|---|-------------------------------|---------------------|---------------------|--------------------|-----------------------------|-------------------------------|----------|--------------|---------|---------|------------|
| GDH 18' | | o-S LVL | 1.75 | 0" X 1 | 4.000" | 2-Ply - | | Project # | : Level: Leve | el | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| • • | · · | • | ingi i | • | | • • | • | | • | • | • • | ••• | M | \uparrow |
| | - PART | | | | and the second | 11 | | - | - THE A | | AL. T | | Ŵ | 1'2" |
| 1 SPF End | l Grain 0-3-8 | | | | | | | | | 2 | SPF End Grai | n 0-3-8 | | |
| [| | | | | 19' | | | | | | | | . †13 | 1/2" |
| 1 | | | | | 19' | | | | | | | 1 | | |
| lember Inf | formation | | | | | | Reactio | ns UN | PATTER | NED IL | o (Uplift) | | | |
| Туре: | Girder | | Applicati | | Floor | | Ĭ | ection | Live | | Dead | Snow | Wind | Co |
| Plies: Moisture Cond | 2 lition: Dry | | Design M Building | | ASD IRC 2018 | | 1 . | tical | | 0 | 2573 | 0 | 0 | |
| Deflection LL: | 480 | | Load Sh | | No | | 2 Ver | tical | (| D | 2573 | 0 | 0 | |
| Deflection TL: | 360 | | Deck: | Ū. | Not Checked | | | | | | | | | |
| Importance: | Normal - II | | | | | | | | | | | | | |
| Temperature: | Temp <= 10 | 00°F | | | | | Desident | | | | | | | |
| | | | | | | | Bearing | | | | | | | |
| | | | | | | | Bearing | - | | | React D/L lb | | | Ld. Con |
| | | | | | | | 1 - SPF End | 3.500' | ' Vert | 25% | 2573 / 0 | 2573 | Uniform | D |
| nalysis Re | sults | | | | | | Grain | | | | | | | |
| Analysis | Actual | Location | Allowed | Capacit | y Comb. | Case | 2 - SPF | 3.500' | ' Vert | 25% | 2573 / 0 | 2573 | Uniform | D |
| Moment | 11641 ft-lb | 9'6" | 24299 ft-lb | 0.479 (4 | | Uniform | End Grain | | | | | | | |
| Unbraced | 11641 ft-lb | 9'6" | 11659 ft-lb | 0.999 | D | Uniform | Grain | | | | | | | |
| 04 | 2404 /h | 1716 1/0" | 0400 lb | (100%) | | l lucife une | | | | | | | | |
| Shear | 2191 lb | 17'6 1/2" | 9408 lb 999.000 (L/0 | 0.233 (2 | | Uniform | | | | | | | | |
| LL Defl inch | 0.000 (L/999) 0.477 (L/466) | | 0.618 (L/360 | , · · | , | Uniform | | | | | | | | |
| | | 30 1/10 | 0.010 (£/300 |) 0.112 (1 | 170) D | Offiloffil | - | | | | | | | |
| esign Not | es oport to prevent la | teral moveme | at and rotation | at the end | hearings Late | aral support | 4 | | | | | | | |
| | e required at the ir | | | | a bearings. Late | siai support | | | | | | | | |
| 2 Fasten all p to exceed 6 | lies using 3 rows | of 10d Box na | ils (.128x3") a | at 12" o.c. N | Aaximum end d | listance not | | | | | | | | |
| | , . t page of calculati | ions for fasten | ers required f | or specified | d loads. | | | | | | | | | |
| | designed to be su | | • | e only. | | | | | | | | | | |
| | nust be supported e laterally braced | | - | 0.0 | | | | | | | | | | |
| | st be laterally brac | | | | | | | | | | | | | |
| | derness ratio bas | | • | | | | | | | | | | | |
| ID | Load Type | | Location | Trib Width | | Dead 0.9 | Live | | ow 1.15 | | 1.6 Const. | | omments | |
| 1 | Uniform | | | | Тор | 200 PLF | 0 PL | | 0 PLF | 0 P | | | BLE END | |
| 2 | Uniform | | | | Тор | 60 PLF | 0 PL | .F | 0 PLF | 0 F | 'LF 0 | PLF DE | AD WALL | |
| | Self Weight | | | | | 11 PLF | | | | | | | | |
| | | | | | | | | | | | | | | |
| lotes | | chemi | cals | | | lat roofs provide p | proper drainage to | prevent | Manufactu | rer Info | | | | |
| Calculated Structured structural adequacy of | Designs is responsible on of this component based | on the 1 IVI he | ng & Installation ams must not be cu | | pondir | ng | | | Metsä Woo 301 Merritt | | g, 2nd Floor | | | |
| lesign criteria and esponsibility of the c | loadings shown. It ustomer and/or the contra | is the 2 Refer actor to regard | to manufacture ing installation | 's product i requirements, | multi-ply | | | | Norwalk, C | T 06851 | , 2na 1001 | | | |
| pplication, and to veri | ent suitability of the i ify the dimensions and load | ds. approv | ng details, beam s als | trength values, | and code | | | | (800) 622-5 www.metsa | | n/us | | | |
| Lumber 1. Dry service condition | ons, unless noted otherwis | 4. Design | ged Beams must not assumes top edge e lateral support a | is laterally restra | ained s to avoid | | | | | | | | comt | |
| IVI not to be treat | ted with fire retardant or c | orrosive lateral | displacement and ro | otation | | design is valid | | | 1 | | | | | CCH |

| 1 | Deet | I | Project: | R HOMES | | In | ate: put by: | | NORRIS | 3 | | | Page 1 of 1 |
|--|---|---|--|--|--------------------------|--------------------------------------|----------------------|------------------------|-------------------------------|-----------------------------|---------------|----------------------|-----------------|
| IS | Design | | Address: | | | | ob Name roject #: | : HIGHL/ | AND | | | | |
| 2852 TW | /IN Kert | o-S LVL | . 1.750" 2 | K 9.250" | 2-Ply | | - | evel: Leve | el | | | | |
| • | | - | 1. | | | • | • | | | | | M | |
| | | - 12 in • | · . | all's The | AT . | - | -4 | | | | | \mathbb{M} | 91 |
| | nd Grain 0-3-0 | | | | 2 SPF E | nd Grain 0-3- | 0 | | | | | | |
| | | | 5'11" | | | | | | | | | 1 | 3 1/2" |
| 1 | | | 5'11" | | | | 1 | | | | | | |
| ember Inf | formation | | | | | Reaction | ns UNF | PATTER | NED IL |) (Uplift) | | | |
| Туре: | Girder | | Application: | Floor | | Brg Dire | ection | Live | е | Dead | Snow | Wind | Cons |
| Plies: Moisture Conc Deflection LL: Deflection TL: Importance: | 2 lition: Dry 480 360 Normal - II | | Design Method: Building Code: Load Sharing: Deck: | ASD IRC 2018 No Not Checked | | 1 Vert 2 Vert | | | 0 0 | 1403 1403 | 1382 1382 | 0 0 | |
| Temperature: | Temp <= 10 | 0°F | | | | | | | | | | | |
| | | | | | | Bearing Bearing 1 - SPF End | Length | Dir. Vert | Cap. 32% | React D/L lb 1403 / 1382 | Total 2784 | Ld. Case L | Ld. Comb D+S |
| nalysis Re | | Location | Allowed Cons | eitre Comb | | Grain 2 - SPF | 3.000" | Vert | 32% | 1403 / 1382 | 2784 | L | D+S |
| | Actual 3613 ft-lb 3613 ft-lb 1829 lb 0.028 (L/2388) 0.056 (L/1185) | | 14423 ft-lb 0.251 11027 ft-lb 0.328 | (25%) D+S (33%) D+S (23%) D+S (20%) S | Case L L L L | End Grain | | | - | | | | |
| esign Not | | | | () | | 4 | | | | | | | |
| may also be Fasten all p to exceed 6 Refer to las Girders are Top loads m Top must be Bottom must | e required at the in lies using 2 rows o ". t page of calculatio | terior bearings of 10d Box nail ons for fastene pported on the equally by all p t end bearings ed at end bear | s. ings. y width. | e. 2. Maximum end c ied loads. | | | | | | | | | |
| ID 1 | Load Type Uniform | I | _ocation Trib Wid | Ith Side Top | Dead 0.9 467 PLF | Live 0 PLI | | w 1.15 67 PLF | Wind 1 0 P | I.6 Const. 1 | | mments & B1 TRUSS | |
| I | Self Weight | | | юр | 407 PLF | U PLI | - 41 | | U F | | LF A3 | & BT 18033 | |
| | Designs is responsible only | | us g & Installation | 6. For f | lat roofs provide p | roper drainage to | prevent | Manufactu Metsä Woo | | | - | | |
| ructural adequacy of esign criteria and esponsibility of the c soure the compone oplication, and to veri umber . Dry service condition | of this component based loadings shown. It i ustomer and/or the contra ent suitability of the in fy the dimensions and loads ons, unless noted otherwise | on the s the ctor to lended s. 2. Refer regardir fastenin approva 3. Damage 4. Design | ms must not be cut or drilled to manufacturer's product g installation requiremen g details, beam strength valu | ts, multi-ply es, and code estrained | | | | | 7 Building T 06851 5850 | ı, 2nd Floor n/us | | | |
| . LVL not to be treat | led with fire retardant or co | | isplacement and rotation | | design is valid | until 6/28/202 | 6 | | | | | OMT | CH |