

April 26, 2022

Summit Homes 120 SE 30th St. Lee's Summit, MO 64082

RE: Field Issue of CS-PF bracing for Lot # 29– Woodside Ridge 421 NW Kaylea Ct, Lee's Summit, MO 64082 – Permit # PRRES20215573

Findings:

- CS-PF bracing is required on the great room/ covered deck wall, per plans.
 - o CS-PF bracing is required corner to corner on the great room/ covered deck wall.
- Wood structural panel sheathing does not overlap with the band/rim joist, per CS-PF detail.
 - o Wood structural panel ends at the sole plate.

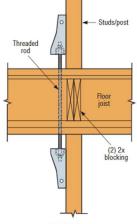
Recommendations:

- Install 6" ledger Loks from sole plate to each floor joist below along the great room/ covered deck wall.
- Attach a H3 hurricane tie to each stud and attach to sole plate per manufacturer's specs.

Or

- Attach HDU2-SDS2.5 holdown device to the corner studs of the great room/covered deck wall.
- Device shall be connected at the top and bottom of the rim/band joists (see image below)
- Install per manufacturer's specs.

| | Ga. | Dimensions (in.) | | | | | | Fasteners (in.) | Minimum Wood | Allowable Tension Loads (160) | | | |
|--------------|-----|------------------|---------|------|-------|------|------------------------------|----------------------|-------------------------|-------------------------------|--------|--|---------------|
| Model No. | | w | н | В | CL | S0 | Anchor Bolt Dia. (in.) | Wood Fasteners | Member Size (in.) | DF/SP | SPF/HF | Deflection at Allowable Load (in.) | Code Ref. |
| | | 11/2 | 71/8 | 1%6 | % | %6 | % | (6) #9 x 11/2" SD | 1½x5½ | 840 | 840 | 0.17 | |
| DTT1Z | 14 | | | | | | | (6) 0.148 x 1 ½ | | 910 | 640 | 0.167 | |
| | | | | | | | | (8) 0.148 x 1 ½ | | 910 | 850 | 0.167 | |
| | | 31/4 | | 1% | 13/16 | 3/16 | 1/2 | (8) 1/4 x 1 1/2 SDS | 1½x3½ | 1,825 | 1,800 | 0.105 | |
| DTT2Z | 14 | | 615/16 | | | | | (8) 1/4 x 1 1/2 SDS | 3 x 3½ | 2,145 | 1,835 | 0.128 | |
| DTT2Z-SDS2.5 | | | | | | | | (8) 1/4 x 2 1/2 SDS | 3 x 31/2 | 2,145 | 2,105 | 0.128 | |
| HDU2-SDS2.5 | 14 | 3 | 811/16 | 31/4 | 1% | 1% | 5/6 | (6) 1/4 x 21/2 SDS | 3 x 3 1/2 | 3,075 | 2,215 | 0.088 | IBC |
| HDU4-SDS2.5 | 14 | 3 | 1019/16 | 31/4 | 1%s | 1% | % | (10) 1/4 x 2 1/2 SDS | 3 x 31/2 | 4,565 | 3,285 | 0.114 | FL, L |
| HDU5-SDS2.5 | 14 | 3 | 13% | 31/4 | 1%s | 1% | 56 | (14) 1/4 x 21/2 SDS | 3 x 3 1/2 | 5,645 | 4,340 | 0.115 | |
| | | | 16% | 31/2 | 1% | 11/2 | 7/8 | (20) 1/4 x 2 1/2 SDS | 3 x 3 1/2 | 6,765 | 5,820 | 0.11 | |
| HDU8-SDS2.5 | 10 | 3 | | | | | | | 3½x3½ | 6,970 | 5,995 | 0.116 | |
| | | | | | | | | | 3½x4½ | 7,870 | 6,580 | 0.113 | |
| | | 3 | | 31/2 | 1% | 11/2 | 1 | (30) 1/4 x 21/2 SDS | 3½x5½ | 9,535 | 8,030 | 0.137 | |
| HDU11-SDS2.5 | 10 | | 221/4 | | | | | | 3½x7¼ | 11,175 | 9,610 | 0.137 | |
| | | 7 3 | 2511/16 | 31/2 | 1%s | 1%6 | 1 | (36) 1/4 x 21/2 SDS | 3½x5½ | 10,770 | 9,260 | 0.122 | _ |
| HDU14-SDS2.5 | 7 | | | | | | | | 3½x7¼ | 14,390 | 12,375 | 0.177 | IBC, FL, L |
| | | | | | | | | | 5½x5½ | 14.445 | 12,425 | 0.172 | |



| Model No. | | Fasteners (in.) | | | | P Allowable L | oads | Uplift with | SPF/HF Allowable Loads | | | Uplift with |
|-----------|----|-------------------|-------------------|---|----------------------|---------------|------|-----------------------|------------------------|-----|-----|-----------------------|
| | | To Rafters/ Truss | | | Uplift Lateral (160) | | | 0.131" x 1 1/2" Nails | Uplift | | | 0.131" x 1 1/2" Nails |
| | | | | | (160) | | | | (160) | | | |
| ■ H3 | 18 | (4) 0.131 x 2 1/2 | (4) 0.131 x 2 1/2 | - | 400 | 210 | 170 | 400 | 365 | 180 | 145 | 290 |
| B H3SS | 18 | (4) 0.131 x 2 1/2 | (4) 0.131 x 2 1/2 | - | 280 | 145 | 120 | 275 | 225 | 100 | 85 | 210 |

1. See Straps and Ties General Notes.

Sincerely,

Bradley Huxol, PE

