

Weyerhaeuser Technical Support



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TO: Lee Narver
Parr Lumber
2351 SW Borland Rd
West Linn, Or 97068

PERMIT #
13-135682-000-00 RS
IVR # 3295232

CC: Mike Bair, Weyerhaeuser

FROM: Jim Anderson, Weyerhaeuser

SUBJECT: ~~6326 N Delaware~~
~~Portland, OR~~
Weyerhaeuser Request #20431

Lee,

A dimension lumber rim has been used in conjunction with TJI® floor joists at the above referenced job site. Dimension lumber is not acceptable to be used as rim with engineered wood products due to dimension lumber produced at a higher moisture content than the end use structure. The result is the dimension lumber rim shrinking while the TJI® joist, which is produced dry, does not. This will lead to crushing of the TJI® joist. For more information you can read the Wood I-Joist Manufacturing Association position statement at the following:
<http://i-joist.org/pdf/solid%20sawn%20rim.pdf>

To remedy the situation, I recommend a 1 1/4" TimberStrand® LSL rim as blocking between the joists to match the depth of the TJI® joist. Floor sheathing and shear walls are to be connected to this product. This rim can accommodate one row of floor sheathing edge nailing, and one row of nails from the shear wall above. If there are more rows than indicated, or any other specified connection pattern further analysis will be required.

Assuming the existing dimension lumber rim is connected to the mud plate to transfer lateral load, the TimberStrand® LSL block will need to be connected to the dimension lumber rim with face nailing. The nailing pattern would match the nailing into the edge of the TimberStrand® LSL.

Please call if you have any further questions.

Regards,

James M. Anderson, P.E.
Weyerhaeuser Technical Support

