

Orig email sent 2/5/21
Hi David and Brad,

I hope you are both having a good week and that David is having some nice warm weather.

I have attached a quick drawing of the problem with a couple of the basement floor joists. In essence the fact that the joist hanger is not nailed in every hole since the 2x12 had to be notched out because of the brick wall.

I also attached a sketch of my proposed solution. I am proposing that I attach 2x12 blocking in between the joist that has the incomplete nailed joist hanger with PL 400 and GRK 6" screws and then attach a second joist hanger that can be nailed completely.

I have also attached some documents that explain our thinking behind using the TimberLOK 8" screws to support the second story floor joists. The first page shows that a 4x8 Hemlock joist that is spaced 24" OC passes with the appropriate live and dead loads. That document assumes using a Simpson Strong Tie LUS46 joist hanger. The second page of that document shows that the LUS46 is rated for a floor load of 1,030 lbs. The TimberLOK 8" screw is rated for 260 lbs of shear weight per screw. We have four screws per joist which would rate at 1,040 lbs. The last page of that document shows that even a 2x8 Hemlock 24" OC passes with the appropriate live and dead loads.

The last document attached are the specifications on the TimberLOK screws. The screw we used is the TLOK08.

We are committed to making this a wonderful house and we appreciate you helping us make it code compliant and safe!

Best Wishes,

Geoff