

Subj: **Amstar Report**
Date: 1/27/2009 5:43:43 P.M. Central Standard Time
From: Engr101
To: carolh@austin.rr.com

Hello Carol and Ron-

Attached is the November 20, 2008 report corrected in the areas that you noted. Please attach all the exhibits and other documents from the first submittal. Mark "void" on the first eight pages of the previous submittal or discard it to avoid confusion, but check to see what the lawyer wants you to do with the prior copy.

I will put together some engineering cost estimates per your email dated January 20, 2009; however, I need to know how or if MLAW will be participating in engineering portions of this project in the future. I was counting on that engineering firm resolving the problems they raised, described in paragraph 13 on page 7, which would involve them in the repairs in the stair area from the roof to the foundation. We need access to their calculations. Otherwise, I would need to take that particular problem on from scratch.

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Subj: **Floor truss stiffbacks**
Date: 4/7/2009 6:14:27 P.M. Central Daylight Time
From: Engr101
To: evin@housedefects.com
CC: carolh@austin.rr.com

Evin, Ron and Carol-

This article relates stiffback requirements to floor vibration problems that you are experiencing. Note the last sentence in the first paragraph: "While wood floor vibration is not typically a structural safety issue, it deserves attention by the design professional at the design stage because such a problem can be costly or practically impossible to fix." Near the top of the next column, it states "Annoying vibrations are possible when floor are designed to the building code minimum."

Evin, you might ask Cris Copeland to explain why he advocates using 30 psf live load at this house instead of 40 psf. Note in column 1, page 25 that "...the 30 psf limit for sleeping rooms can be an unintended source of vibration problems in one and two family dwellings."

Regardless of the minimum standards of TRCC or IRC, your floor is an "engineered system" with PE seal and it must be designed to meet the engineer's standard of care which is a higher standard than the other "standards".

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Subj: **MLAW calculations**
Date: 4/7/2009 9:56:28 P.M. Central Daylight Time
From: Engr101
To: evin@housedefects.com
CC: carolh@austin.rr.com

Evin-

I searched yesterday and again today and have found no calculations performed by MLAW, not even for their roof truss repair. The one beam calculation I found was sealed by someone unfamiliar to me and probably not anyone who works for MLAW. That calculation was incorrect in the sense that the designer designed only for the second floor loads and not any contribution from the second floor bearing walls and roof.

You might ask Chris Copeland how he mathematically came up with his solution for repair the roof girder truss. Without calculations to justify his design, his truss scabs and nailing might not work. The only way that engineers can design things is by performing the calculations.

If MLAW has not provided their own calculations, that is a breach of the agreement that I have with Kirby Meyer.

June Melton, PE

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