

Lister Industries Ltd.
7410 – 68 Avenue
Edmonton Alberta T6B 0A1

Attn: Arnie Stephens, General Manager

Our File: 12-2430
Date: June 25, 2012

Dear Arnie,

Re: Bearing capacity of Lister rig mats

We have investigated the bearing capacity of the timber in the Lister Industries rig mats. The crushing strength of the timbers is 1.23 MPa (MegaPascals) which is equivalent to 25,685 psf (pounds per square feet). This is a factored resistance based on the guidelines published in the Canadian Wood Council Wood Design Manual. In circumstances where the loading may exceed this bearing pressure, the mats may be reinforced in such a way as to spread the load over a larger area of mat. One simple way to accomplish this would be to cover the mat with steel plate on the side that will be loaded.

It is important to note that the strength that is being given is a crushing strength and not a bending strength. If the mat is used to carry a load over a span then the capacity will be reduced from what is listed above. The performance of the mat under bearing, or crushing, will be dependent also on the quality of the material underneath the mat.

We trust this letter meets your needs. Please let us know if we may be of further assistance.

Yours truly,



Arda Ozum, PEng.
Director, Acius Engineering Ltd.