

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

Date: June 24, 2011

Dear Mr. Stephens,

RE: Capacity of Lifting Lug for Standard Rig Mats

At your request, we analyzed the lifting lug detail that incorporates a 1" diameter cold rolled pin in the standard Lister rig mat. This pin is fastened by weld into a ¼" bent plate housing that forms a box with the web of the perimeter steel beam of the rig mat.

Based on our analysis, each lifting lug should be adequate for a maximum vertical lift load of 8700 pounds. This is a factored capacity per lifting lug in conformance with the Canadian Handbook of Steel Construction with the mandated factors of safety.

In using this capacity to select rigging, the service loads that are to be lifted should have appropriate factors of safety applied to them before comparing the load to this capacity. For example, the actual load that is to be lifted should be increased by a safety factor to account for variances in self weight and a dynamic amplification factor for lifting operations. It is typical to use a 1.25 factor of safety for self weight and the dynamic amplification may vary from 1.1 to 1.5 or more depending on the lifting methods being used. The increased load with the appropriate safety factors must be less than the factored capacity of the lifting lug. If you should have any questions regarding this letter, please contact us.

Yours truly,



Arda Ozum, P.Eng.
Director, Acius Engineering Ltd.