



# AUTOMOTIVE LIFT INSTITUTE, INC.

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## Request for Interpretation - Response September 12, 2007

Request for Interpretation (RFI) dated May 14, 2007, relating to Section 8.2 of ANSI/ALI ALCTV, Automotive Lifts – Safety Requirements for Construction, Testing and Validation (Technical Issue #TI-07-002).

This document summarizes the Official Response of the Automotive Lift Institute, Inc. (ALI) to the "Request for Interpretation" relating to the requirements of ANSI/ALI ALCTV -2006, Standard for Automotive Lifts - Safety Requirements for Construction, Testing and Validation, as submitted in May of 2007.

The "Request for Interpretation" is paraphrased here for clarity.

**8.2 Design Criteria.** On roll-on style lifts, is the application of the load used for the required stress analysis to be uniformly distributed over the entire runway, or is it to be uniformly distributed over the designated load points per the applicable Diagram in Appendix B of Appendix B of ANSI/ALI ALCTV -2006?

**Response:** The answer to the first part of the question is yes, and to the second part of the question is no.

**Explanation:** Whereas the engineer is correct in that the execution of the required stress analysis under the assumption that the load is applied uniformly for roll-on style lifts does not take into account that this type of lift receives its load through four or more points of contact (tires).

At the time of the drafting of the 2006 revision of ANSI/ALI ALCTV, it was the decision of the deliberative body to allow uniform loading for the purpose of completion of the required stress analysis to simplify its presentation and limit the consideration of other numerous combinations of load application configurations that could arguably be encountered during actual lift use.

It was the opinion of the deliberative body that such variances are accounted for through the application of the various strength factors set forth in the standard and, by the variances in loading configurations dictated by the testing protocols set forth in the standard. The prudent lift designer will consider variances in loading configurations in order to assure successful test results.