

Date: 09/23/2022

Subject: Engineering study results and certification for a portable stage product (MyStage)

To whom it may concerns,

This letter is prepared to report the study and results of loads modeling on MyStage, a portable stage with 5 legs, 465 mm height and 1219mm x 1219mm top surface have been modeled and studied. Based on the manufacturer information on material and geometry of the unit and according to codes and regulations requirements:

- Required load by code is 50 psf.
- Maximum stress that is caused by this load is 55.4 MPa (8.04 ksi) which is considerably less than the material yield stress of 241 MPa (34.95 ksi). Thus, the stage can bear this load with a great safety margin.
- Applying higher loads to the model shows that deformation and fracture does not occur until the overall distributed vertical force reaches 3,479 lbs (15,475 N). As a disclaimer, applying loads close to the fracture point, periodic loads and loads for too long time periods are not recommended.

Based on this study, the stage is properly designed and can handle the intended loads.

For further information, feel free to contact the engineer of record.

Respectfully submitted,

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