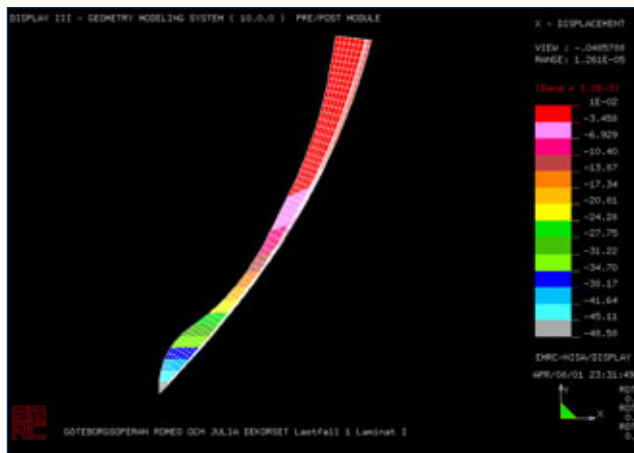


PRODUCTS IN ACTION

Décor Set for Gothenburg Opera House



"Romeo and Juliet" at the Gothenburg Opera House



DIAB Technical Services was involved in the structural design of composite objects to the décor set of the ballet production of the classic "Romeo and Juliet" played at the Gothenburg Opera House. The objects consist of four "legs" with an intricate geometry placed on wheels and attached to a platform.

Length of legs: 5.0 m
Total number of legs: 48

A total of 12 objects was produced, all differ in appearance in the sense that the platform is located on different heights and that the legs are attached at different angles. Four of the objects are designed to carry a person while the remaining eight only carry their own weight. The legs were manufactured using an infusion process with triaxial glass/epoxy laminates. The four platforms that are designed to support a person are reinforced with uniaxial carbon. The laminates were optimised for stress and deformation using FE-analysis.

Laminates:	Uniaxial Carbon, triaxial Glass / Epoxy
Geometric Design:	Eduard Hermans
Design:	Ingmar Carlsson and Håkan Andersson, Gothenburg Opera House
Manufacturer:	West Coast Composite
Structural Design:	Peter Norlin, DIAB Technical Services

