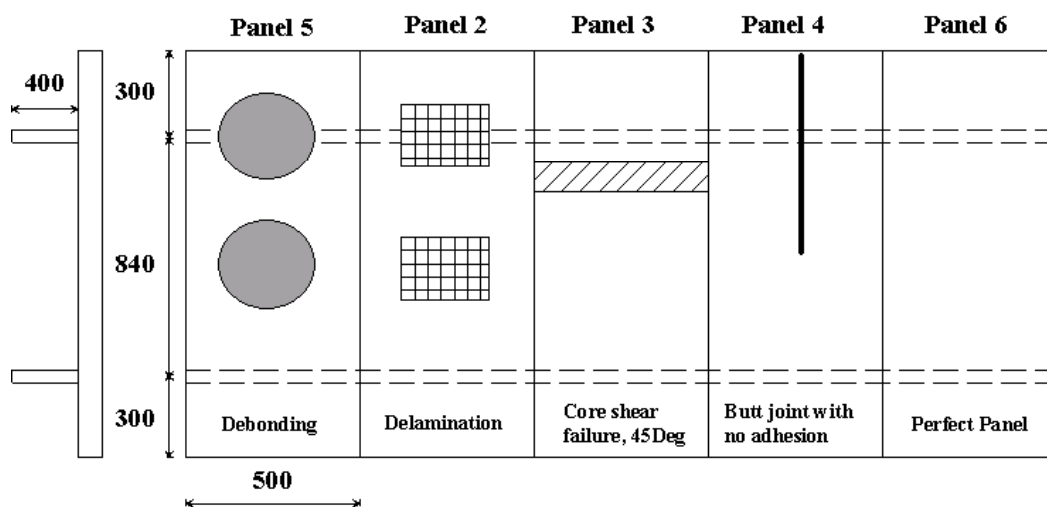


Thales JP3.23 (SaNDI)

A Nordic/British research program with the title: Inspection and repair of sandwich structures in naval ships.

Client: Det Norske Veritas, FFI
Project homepage: <http://research.dnv.com/SaNDI/>

- State of the art on damage detection methods and inspection techniques
- State of the art on calculation techniques for damage growth predictions in typical naval sandwich materials
- State of the art on emergency repair techniques performed onboard at sea
- A guideline for systematic handling of damage detection and inspection for use in-service (Objective: Determine the hull condition when damages are discovered and a guide for actions to be taken based on the changes in the hull condition)
- A guideline for production control
- Specific tasks:
 - Estimation of global residual strength when damages are introduced in the hull.
 - Specifying of a set of test panels with artificial defects and damages
 - Feasibility study of damage detection using Shearography (an ESPI-technique) on large sandwich panels.

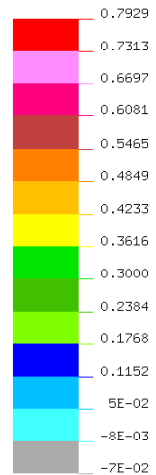
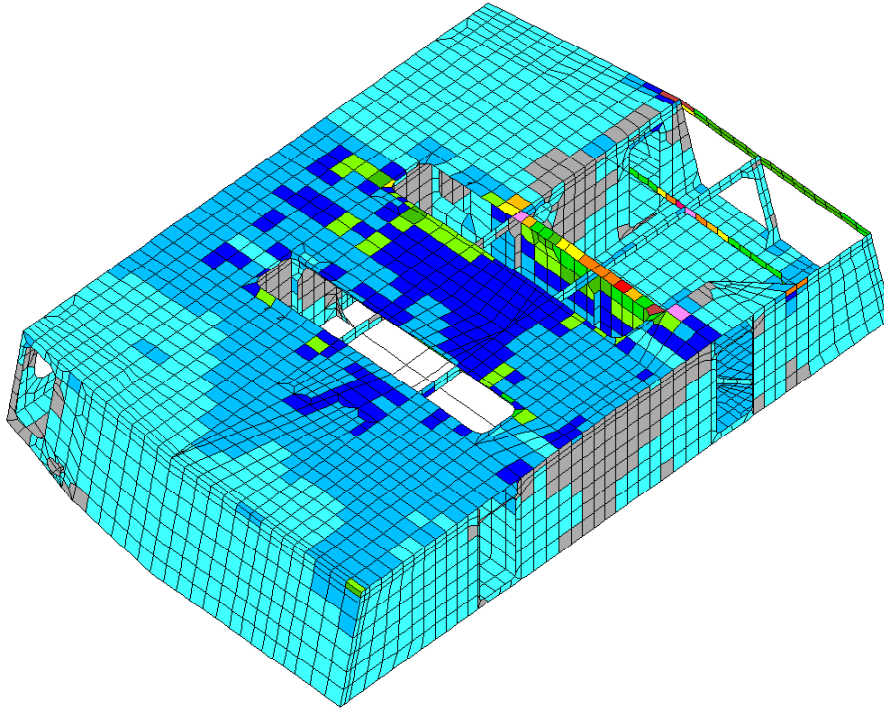


Test panels with artificial defects and damages for bench mark testing

Research

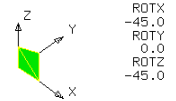
DISPLAY III - GEOMETRY MODELING SYSTEM (9.0.0) PRE/POST MODULE


FAILURE TSAI-WU
STRESS SURVEY
VIEW : -.0696646
RANGE : 0.7929378



EMRC-NISA/DISPLAY

FFR/05/04 15:37:26



 Slamming baugplate cc 237 kPa
MTB Baug 1.5 LPF analyse

*Strength calculation when one compartment is fully damaged
(E.g. internal fire)*