Address	**Rockfield Ethos**
	Kings Road
	Prince of Wales Dock
	SA1 8AS Swansea Waterfront
Country	United Kingdom
Phone	0044 1792 455577
Internet	www.rockfieldglobal.com
Employees	28-30
Turnover	£3,700,000
Year founded	1985

CONTACT PERSONS

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PRODUCTS OR MACHINERY

Glass Container software – ELFEN GD

ELFEN GD is a self contained suite of numerical modelling programs which are designed to provide glassmakers with decision support system tools to aid in the design, production and quality control of glass containers. The product has a customised user interface which employs glass industry terms for ease of use, enabling proficiency to be quickly developed by a range of users. Users can simulate the forming of containers and assess their integrity under a variety of loading conditions.

The two main modules, Forming and Design (stress analysis) can be linked to facilitate the development of new container designs.

ELFEN GD forming

The forming module has been designed to simulate the forming process of round glass containers, from gob delivery through parison formation, invert and final blow to mould open. The types of forming processes modelled include BB, PB and NNPB.

ELFEN GD design

The Design module allows stress analysis of a finished container under a variety of conditions, including:

Head loads and/or internal pressure loading
Impact (pendulum tests, filling line collisions, drop loads)

Assessment of a container's integrity can be made by comparing the predicted results against experimentally determined failure stress curves. Both round and non-round containers may be analysed.

Platforms

The ELFEN GD suite runs on a PC under most versions of Microsoft Windows.

COMPANY BACKGROUND / HISTORY
Glass Modelling

Rockfield has been working closely with the glass industry since 1985, supplying numerical-based software products (ELFEN GD) and analysis consultancy services. These products and services allow the industry to;

Simulate the forming of containers (BB, PB, NNPB) in order to predict the glass thickness distribution in the finished container, thus enabling the user to:
Undertake light-weighting studies
Investigate the effects of changes in parison design or process conditions
Reduce the need for trials on new containers
Assist with troubleshooting for existing containers
Evaluate the integrity of containers under head load and internal pressure
Assess the performance of containers under impact loading (pendulum tests, filling line collisions, drop loads)
Assessment of cap designs

Company Profile of **Rockfield Ethos**

A service of glassglobal.com, an affiliate of glassglobal group.