**ContraFlame® C20 Flexible Joint**

High Performance Jet Fire Rated Flexible Joint for Offshore Structures

[www.advancedinsulation.com](http://www.advancedinsulation.com)
ContraFlame®

C20 Flexible Joint

The ContraFlame® C20 Flexible Joint Range, a versatile fireproof system designed to address deck section misalignment, angular deviations and drain gully requirements.

ContraFlame® C20 is a preformed syntactic silicone Passive Fire Protection (PFP) material developed by Advanced Insulation.

The system is designed to accommodate for misalignment and movement between structures in all directions, being able to withstand extension, compression and shear forces. The ContraFlame® C20 Flexible Joint has been modelled to a variety of static and dynamic scenarios such as extension, compression and blast loading.

Advanced Insulation offer design support for structural elements, for integration of the ContraFlame® C20 Flexible Joint as standard. This enables a best fit solution and improved efficiency during the installation process.

Features and Benefits

- Pre-cast system with bolt holes allowing easy application
- Indicative modelling for movement up to 60mm both vertically and horizontally
- Indicative blast modelling up to 0.36 bar
- Jet fire resistance, with gas tightness and structural integrity maintained for 120 minutes duration.
- Acoustic damping and noise reduction
- Waterproof, corrosion free guttering
- Single point responsibility from site survey to application of material
- Full technical support from design, through to manufacture and installation

ContraFlame® Flexible Joint

Thickness: 50mm
Assembly:
- Modules are positioned with gap for flexible joint assembly
- Angle steel support frame is bolted to flexible joint
- Whole assembly can be bolted or welded in place

Applications

ContraFlame® C20 can be used across a variety of applications for:
- Module to module guttering
- Where build tolerances between deck sections need to be considered

The C20 Flexible joint can be installed onshore during construction or retrofitted offshore.

Construction

ContraFlame® C20 has a very low hazard rating unlike other insulation materials such as Epoxy or Polyurethane. There are no volatiles, sensitisers or flammables.

The system is cold curing with zero shrinkage, no exotherm during casting and provides good adhesion to a substrate, or to itself.

Research and Development

ContraFlame® C20 Flexible Joints have been extensively modelled for static and dynamic applications. The system has been subjected to a range of simulation techniques to prove it’s suitability for offshore structures.

Discover more about ContraFlame®: www.advancedinsulation.com