



Pioneers in advanced technology hydrocarbon  
fire and blast rated modular products

## Modular Solutions

Bespoke fire, blast and acoustically rated modules designed, manufactured and supplied complete with all electrical, heating, ventilation and air conditioning systems.



*Accommodation module internal view*

### The complete turnkey solution

- Design, engineering, assembly, fit-out, testing, transportation
- Site installation, supervision, surveys, risk assessment
- Complete with electric power, lighting, HVAC and CCTV
- All components fully tested and certified
- Quality Accreditation to ISO 9001:2008

MTE Ltd is a technology company with a global reputation for the protection of people and equipment from blast, fire and heat hazards in on-shore and off-shore oil & gas, nuclear, renewable energy and petrochemical industries. We devote a unique wealth of specialist skills and over 40 years experience to design, build and deliver individual and dependable solutions.

Three decades ago MTE were amongst the first to respond to the needs of operators of offshore platforms for simple to install, economical to produce, self-contained modules providing protection against blast, fire and noise.

Today our Modular Solutions team is one of the most experienced in the world. Their track record in off-shore oil & gas has attracted assignments in wind power projects and land based petrochemical plants. They offer the complete turnkey service: design using the latest modelling techniques, engineering, assembly, architectural fit-out, pre-delivery testing, transportation and installation.

Modules are purpose designed to meet the clients' specified explosion, seismic, thermal, fire and acoustic performance criteria, and can be constructed from carbon steel, duplex or 316L stainless steel. They are supplied complete with mains power distribution, internal and external lighting, DC emergency power, security, fire and gas detection,

alarm systems, CCTV, heating, ventilation and air conditioning and packaged equipment systems – installed, tested and commissioned.

Our flexible approach enables us to supply modular buildings to cover a range of duties and sizes from small road transportable units to large site-assembled buildings manufactured in modular units.

**Accommodation Modules** The variety of uses is continually expanding. They include: living quarters (new build), additional living quarters (upgrade), temporary refuge rooms, emergency shelters and office accommodation.

**Equipment Rooms** Typical uses include: E-Houses (Electrical Houses), control rooms, LER (Local Equipment Room), 33KV room, 11KV room, compression room, laboratory modules, VSD (variable speed drive) modules and pump houses. MTE's electrical expertise enables us to produce modules housing equipment such as switchgear and control systems.



*Peregrino FPSO LER module*

**Escape Routes** These provide protected transit ways, evacuation routes and muster areas in the event of serious hydrocarbon explosion and fire. They vary from semi-open walkways to fully enclosed high integrity fire and blast rated tunnels for off-shore production platforms and onshore equivalents. They are pre-fabricated to provide economical site installation.

**Fabrication** At the 7200m<sup>2</sup> production facility at our Darlington base we employ state of the art equipment to handle the widest variety of work possible, including projects of extreme size - up to 5m wide X 20m long X 5m high X 60 tonnes. All components are fully tested and certified.

Our 5000m<sup>2</sup> covered riverside facility with three overhead cranes by the River Tees in nearby Middlesbrough has the flexibility to assemble and ship out modules exceeding 1000 tonnes.

**Delivery and Installation** Modules can be supplied in one piece and loaded directly on to barges for onward sea transportation to their final destination. Units which are larger still can be supplied in kit form for simple on-site assembly. We then take care of site installation and supervision.

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| Modular  
| Solutions

| Fire and Blast Wall  
| Solutions

| Heat Shield  
| Solutions

| Fabrication