



Bespoke, cost-effective and high quality
solutions for fire and blast protection

Fire and Blast Wall Solutions

Depend on MTE to design, engineer, manufacture, supply and install fire walls and blast walls tailored to fulfil specific project requirements in the most cost-effective way.



Apache Forties Alpha fire and blast walls

MTE Ltd is a technology company with a global name for the protection of people and equipment from blast, fire and heat hazards in on-shore and off-shore oil & gas, 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.

From its foundation in 1969 MTE acquired a reputation for providing fire and blast protection for North Sea oil & gas platforms. We have built on this heritage of skills and knowledge through a programme of continuous technical improvement.

As a result the Fire and Blast Wall technical team at MTE today offers an unrivalled capability, not only on platforms, but in onshore plant in the North Sea and as far as Sakhalin Island on Russia's North Pacific coast. MTE expertise is employed in oil & gas but also in offshore wind farms.

Fire Walls are high integrity, fully welded gas tight systems manufactured from profiled steel and insulated to achieve specified fire ratings up to H120 and 60 minute jet fire, which are type approved by Lloyds Register. Lightweight prefabricated walls are designed to achieve the most cost-effective and efficient solution to the specified hazard. To prove the validity of the fire wall design procedure we have performed well in excess of 100 full scale fire tests. For simplicity of installation they require no intermediate support steel, whatever the span; and being stainless steel they are maintenance-free.

Blast Walls are high integrity fully welded gas tight systems manufactured from profiled steel and insulated to achieve the specified fire ratings. They are resistant to overpressures in excess of 7 barg and have been designed and supplied with fire ratings of up to H120 and 60 minute jet fire, type approved by Lloyd's Register. We have performed well over 100 full scale blast tests to prove the validity of the fire wall design procedure.

Blast Relief Systems are tailored to the individual requirements of each project, taking varying aspects of the specification into account to offer the optimum solution.

Typical benefits include:

- Non-detaching design in carbon steel, stainless steel, aluminium or composite
- Non rated and fire rated systems available
- Acoustic performance to suit clients' requirements
- Modular construction using cassette assemblies to simplify site installation
- Patented precision release mechanism ensures accurate opening pressure
- Low maintenance
- Fully tested with Lloyds verification

The complete solution

- Carbon, stainless steel 361L and Duplex
- Type approved certification from A0 to H120 fire ratings
- Jetfire ratings up to J60 rating
- No intermediate support steel required
- Maintenance-free – stainless steel
- Type approved by Lloyds Register
- Quality Accreditation to ISO 9001: 2008



Maersk Al Shaheen LO, fire and blast wall installation

Louvered Walls Many applications in the petrochemical, oil & gas and renewable energy industries require ventilation systems that can be easily fitted without specialist tools. That is why MTE developed a louvered wall system. This provides an extremely rigid but low weight product which can be adapted to meet the specific environmental conditions, such as wind and heat, allowing

natural ventilation for equipment. Typical applications include offshore wind farm substations and offshore topside platforms.

Fabrication and Delivery Our blast walls and fire walls are manufactured within MTE's own 7200m² production facility at our Darlington base. This employs state of the art equipment to handle the widest variety of work possible to individual specifications,

including projects of extreme size – up to 5m wide X 20m long X 5m high X 60 tonnes.

Our 5000m² covered riverside facility with three overhead cranes by the River Tees in nearby Middlesbrough has the flexibility to assemble walls of any dimension. These units are then loaded out on to barges for shipping to their final destination to be simply installed on site.

Mech-Tool Engineering Limited
Whessoe Road Darlington
County Durham England DL3 0QT

Tel +44 (0)1325 355141
Fax +44 (0)1325 487053
Email sales@mechtool.co.uk
Web www.mechtool.co.uk

| Design
| Consultancy

| Modular
| Solutions

| Fire and Blast Wall
| Solutions

| Heat Shield
| Solutions

| Fabrication