



Ultrablast



Setting the benchmark for working safely on sensitive sites.

Thurston Building Systems are the leading manufacturer of Ultrablast, a blast resistant building used globally to provide a safe working environment and secure storage facilities at hazardous sites.

Delivering safety

The security and safety of the people who control or maintain processes in industries where hazardous materials are processed or stored is thrown into sharp focus when explosions and accidents make the headlines. Today providing the safest possible working environments not only applies to the direct operation being carried out, but also the site accommodation and welfare units being used by contractors, and support staff.

Thurstons are the largest UK manufacturer of blast resistant buildings. These vapour blast resistant buildings have been developed to provide a high degree of safety for the user and meet the challenges faced by those working in hazardous situations.



Ultrablast units are engineered to withstand a force of upto 1000-millibar over pressure for 100 milliseconds – the equivalent of exerting an 80 ton impact



Designed to meet your needs

Ultrablast blast resistant buildings work as stand alone cabins or can be linked to create a much larger building to provide protection in hazardous working environments.

These highly specialised blast units can be used as storage, accommodation, control rooms, offices, canteens, toilet and shower blocks.

The Ultrablast range has set new groundbreaking standards in safety and comfort and can be designed to meet your exact specification.

Available in a range of sizes and with various options for internal and external décor the Ultrablast units are the ultimate in quality, safety and security for your business

The Ultrablast range can also include architectural features to match your corporate image as well as local or environmental planning requirements.

Ultrablast is Ultra Secure and Ultra Safe

Engineered for safety

Unique Ventilation System

The Ultrablast range of blast resistant buildings have been designed with a unique guard ventilation system for units up to and including 300mb which is low maintenance with no moving parts. This unique ventilation system makes your building more cost efficient without compromising on safety.

For units above 300mb a more traditional approach is taken to ensure the safety of the building at this high pressure range.

Electrical Safety

Subject to application, Thurston's can also provide you with electrical equipment suitable for any potential explosive atmosphere including

- Outside lighting
- Door automation
- HVAC fans
- Disabled access equipment

Added protection

Toxic Refuge

All of the Ultrablast buildings can be designed to accommodate a toxic refuge facility, providing your staff with additional safety.

The building size can vary according to the number of people who require protection and with Thurston's, you can achieve the size of building you need through our flexible design and manufacturing processes.

Design features can be included for a manual or automated system depending on your requirements. Sensors can also be provided as an additional safety feature.

Radiant Heat Protection

If appropriate the design of your blast building can also be adapted to accommodate radiant heat – another innovative safety feature for your staff from Thurston

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|--|------|-------|-------|-------|-------|-------|--|
| Free field Over Pressure | 50mb | 100mb | 150mb | 200mb | 300mb | 500mb | 600mb – increased blast rating upto 1000mb |
| Reflective Over pressure (approximately) | 110 | 220 | 330 | 440 | 680 | 1100 | 1320 |

Proven Protection

You can rely on Ultrablast to:

- Fully comply with all health and safety regulations
- Meet or exceed stringent blast resistant standards specified by all major companies involved in the petrochemical industry
- Protect your employees and your reputation
- Deliver a robust and secure storage solution for your hazardous materials
- Provide additional peace of mind protection

Ultrablast can be designed to each of the three levels of deformation response meaning that (if required) in the event of an explosion the building could still be used as a central facility to coordinate emergency response.



Thurston Building Systems is one of the main trading names of Thurston Group Limited. The Company is a leading supplier of modular and portable buildings throughout the UK and also works in partnership with customers internationally to provide best practise solutions to construction challenges.

Working in the industry for over 40 years, Thurstons have worked with leading companies in healthcare, education, construction, petrochemical, retail and commercial markets. Trusted to deliver quality, flexibility and innovation, Thurston is the hallmark for inspired building solutions.

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