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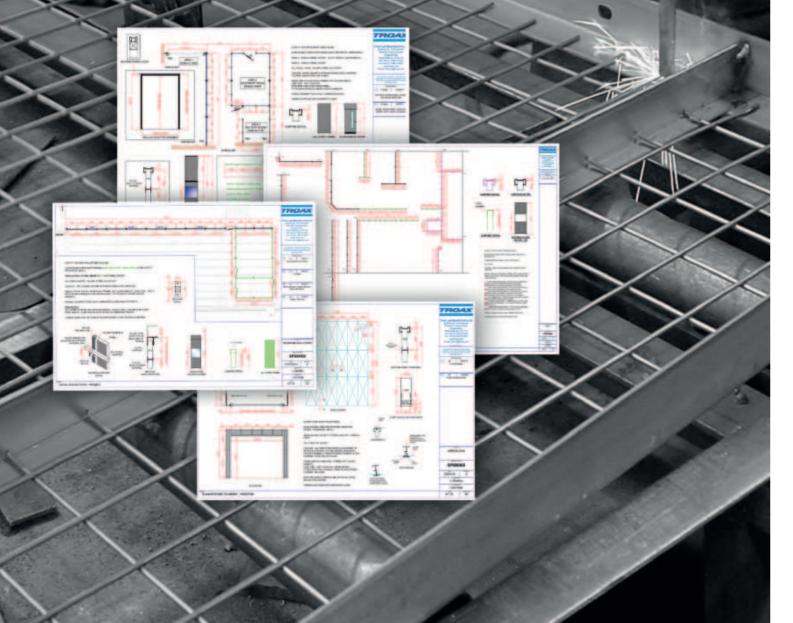
Troax are global developers and manufacturers of steel mesh panels for Machine Guarding, Warehouse Partitioning, Property Protection and Commercial Partitioning. This brochure presents our solutions for the market segment of Commercial Partitioning. Our business concept is to develop innovative steel partitioning and mesh panel solutions to protect people, property and processes, as well as to ensure a secure and fully utilised working environment. Read more about our systems at **www.troax.com/gb**

COMMERCIAL PARTITIONING

03

For 65 years, we have been developing innovative commercial partitioning solutions for industrial, interior and office applications. Today we are found all over the world - protecting people, property and processes.

OUR SERVICES.



TROAX IS IN THE BUSINESS OF SAFETY AND SECURITY. OUR PANEL SYSTEMS OFFER THE SAFEST AND MOST FLEXIBLE SOLUTIONS ON THE MARKET.





ISO 14001

Environmental

Management System

ISO 9001 Quality Management System



Royal Institute of British Architects

National Building Specification, Building Information Modelling



Storage Equipment Manufacturers Association

RIBA -Product Selector

riba

produc

electo





Finishes and Interiors Sector National Building Specification Plus Whatever your needs may be, we will create a bespoke solution. Our ranges are marketed in four segments: Commercial Partitioning, Machine Guarding, Warehouse Partitioning and Property Protection.

ROOM FOR NEW IDEAS

Within the segment of Commercial Partitioning we offer five systems: Titan, Elan, Sigma, Bastion, and Vetro, along with a variety of ceilings and accessories. These products can be combined in several ways. Together, we can create a solution to suit your needs.

SURVEYS ON SITE

One of our technical salesmen will personally manage your enquiry and – if needed – carry out a detailed site survey on location. Our technical sales team are passionate at creating your perfect workspace solution. Our skilled assembly team can take care of the installation of your system while your contact at Troax will follow up on your project.

PLANNING AND DESIGN

Our systems are adapted and designed to suit your specific needs, with everything intricately planned down to the smallest detail. With several security levels and a variety of different locks, door designs and glazing options, our ranges can be built to suit all kinds of applications.

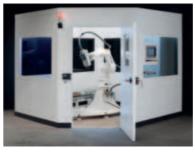
INSTALL IS PART OF OUR OFFER

Troax offer help with assembly and installation on all our systems. Should you choose to install the products yourself, each Troax delivery includes clear user instructions and assembly guidelines, which make it easy to assemble our system on site.

ENHANCE YOUR WORKSPACE.



Titan is a high-quality double skin steel partitioning system ideal for cleanroom and commercial applications.



2 ELAN Elan is a high-quality double skin steel partitioning system for office, warehouse and factory applications.



3 SIGMA

Sigma is a single skin partitioning system ideal for factory and warehouse environments. Wide range of mesh sizes available.

Troax offer complete solutions to protect your personnel and production process. Our Commercial Partitioning products will maximize your workspace potential.

Troax partitioning ranges enable you to quickly and efficiently divide large-scale spaces, segregate secure storage areas, and create both industrial and well-designed offices, cleanrooms, and work areas. With a broad selection of door and ceiling options to accompany our partitioning ranges, we offer a real "one stop" solution for all your partitioning needs.







8 SLIDING DOORS Where space is at a premium our sliding doors offer a truly elegant solution.



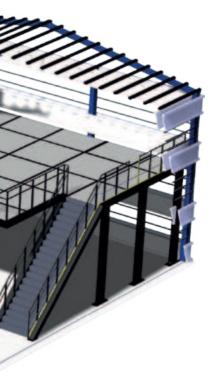
7 TITAN AND ELAN DOORS The refined Titan and Elan doors offered by Troax are renowned for durability and good design.





4 BASTION

Bastion is a single skin partitioning system ideal for cost effective enclosures of superior strength and stability. Wide range of mesh sizes available.



07





10 CEILINGS Ceiling and roof options to perfectly accompany our partitioning ranges.

TITAN Double skin steel.

HIGH QUALITY AND HYGIENIC

Titan has been designed specifically for use in cleanroom environments, where clean processes are undertaken. Its two-line junction keeps dust and particle leakage to a minimum, and its powder coated finish is an ideal surface for clean environments where a degree of cleanliness is required.

Through smart engineering and careful manufacturing, using the correct air handling and HEPA filters makes the Titan panel system a popular solution for mid-range cleanrooms. (ISO 14644-1 class 5,6,7 & 8).

- » Joints can be silicone sealed to stop air flow and further reduce particle leakage.
- » Completely demountable, enabling one panel to be removed without having to dismantle the whole enclosure.
- » Flush glazing eliminates ledges and improves aesthetics.
- » Toughened glass with polished edges lay perfectly flush with the steel panels and doors, allowing for a modern look.
- » Integrated blinds are available, which are controlled with a portable dial keeping the panel face free from unnecessary clutter.

TITAN PANELS

SGS

AS (all steel) and SGS (steel-glass-steel) panels all come in the standard sizes below.

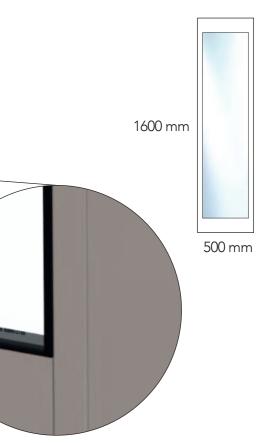
3000 mm 2695 mm 2390 mm

AS



300 mm 500 mm 600 mm 900 mm 1000 mm

AG (all glass) panels come in a standard glass size of 500 mm x 1600 mm, and a steel frame of the desired height and width.



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COMMERCIAL PARTITIONING TRC

ELAN **DOUBLE SKIN STEEL.**

APPEARANCE AND SAFETY

Elan is a high-quality double skin steel partitioning system which can be used in a wide range of applications where appearance, aesthetics and safety are important. Elan's aesthetic and physical properties make it very appealing for a multitude of working environments, such as factory partitioning, museum display areas, and laboratory offices. Elan is a cost-effective answer to all your space management problems.

This system is available in both non-fire and fire rated versions. Please contact us to discuss your requirements.

- Integrated blinds are » available, which are controlled with a portable dial - keeping the panel face free from unnecessary clutter.
- Noise reduction capabilities » can also be offered with potential noise reduction of 28 dB - 32 dB.
- Completely demountable, » enabling one panel to be removed without having to dismantle the whole enclosure.
- Panels can be supplied in a » fire-rated version to BS476: Part 22:1987.
- See page 22 for fire » rating and acoustic enhancement capabilities.

GSG

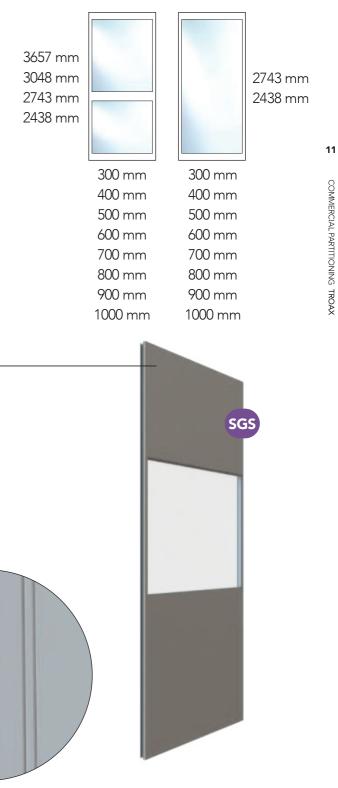
AS

10

ELAN PANELS

AS (all steel), SG (steel glass), GSG (glass-steel-glass) and SGS (steel-glass-steel) panels all come in the standard sizes below. A width of 1000 mm is available if the height is below 2438 mm.

AG (all glass) panels have less height options, however have the same width availability.



SIGMA **SINGLE SKIN STEEL.**

MODULAR AND FLEXIBLE

The Sigma system is ideal for factory or warehouse environments. It is perfect for enclosing working areas where appearance is important, but a double skin system is not necessary, making our Sigma range a very popular economic solution.

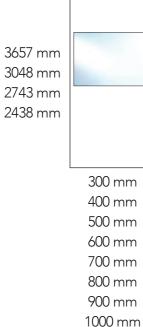
It offers a lightweight yet durable solution for your workplace. Applications include perimeter guarding for heavy-duty machinery, robots, conveyors, and other automated processes.

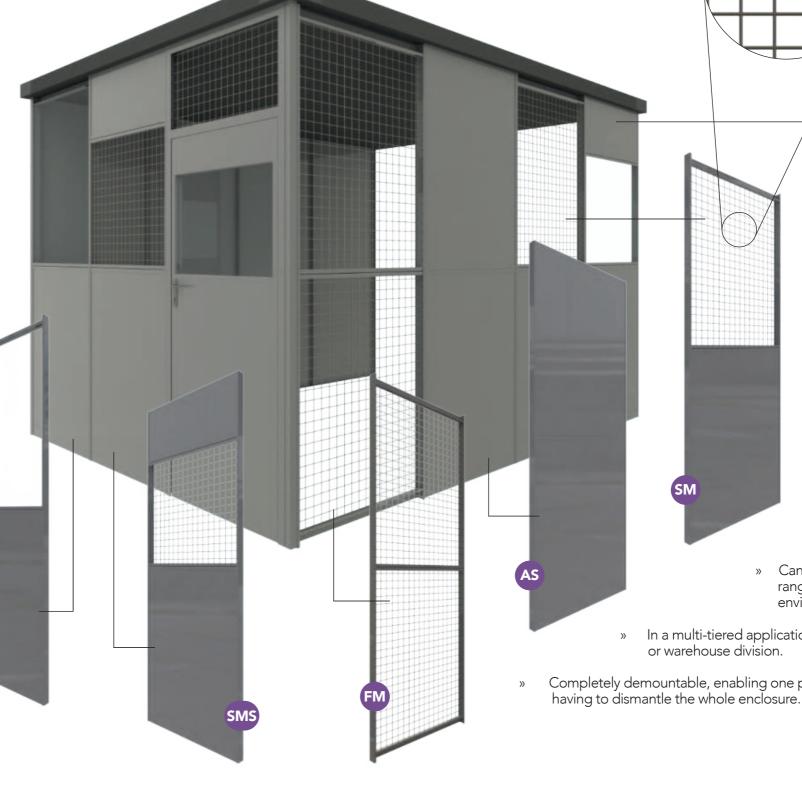
SIGMA PANELS

Sigma is available in six different configurations: AS (all steel), FM (full mesh), SG (steel glass), SMS (steelmesh-steel), SGS (steel-glass-steel) and SM (steel mesh).

SG

All Sigma panels come in the standard sizes below.



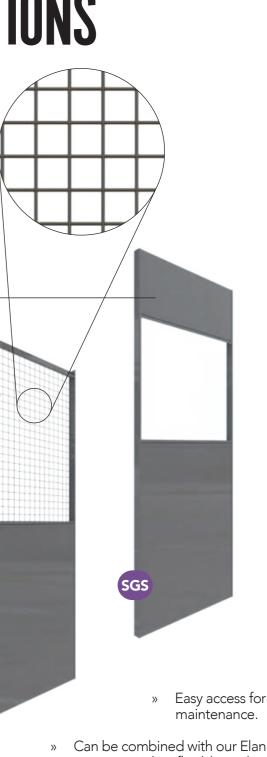


SIGMA MESH OPTIONS

Our standard mesh is 50.8 mm (2 inch), however other mesh options such as 25.4 mm (1 inch) and 12.7 mm (1/2 inch) are also available upon request.

See Page 26 for all mesh configurations and aperture sizes.

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Can be combined with our Elan range, providing flexible working environments.

In a multi-tiered application, it can be used as a factory or warehouse division.

Completely demountable, enabling one panel to be removed without

BASTION **SINGLE SKIN STEEL.**

SGS

DURABLE AND HEAVY-DUTY

Bastion is an economic heavy-duty angle-framed single skin partitioning system with superb strength and adaptability. Its robust angle frame makes it an ideal choice for creating a highly secure perimeter. Bastion is the answer when it comes to creating a secure environment.

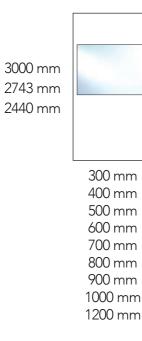
The welded combination of our steel and mesh sheets make it very resistant to attack. Bastion is one of our most popular ranges, providing cost-effective security.

BASTION PANELS

Bastion is available in six different configurations: AS (all steel), FM (full mesh), SG (steel glass), SMS (steel-mesh- steel), SGS (steel-glass-steel) and SM (steel mesh).

Where the panel is required with mesh, various mesh options are available.

All Bastion panels come in the standard sizes below.



Our standard mesh is 50.8 mm (2 inch), however other mesh options such as 25.4 mm (1 inch), 12.7 mm (1/2 inch), expanded metal and woven mesh are also available upon request.

See Page 26 for all mesh configurations and aperture sizes.

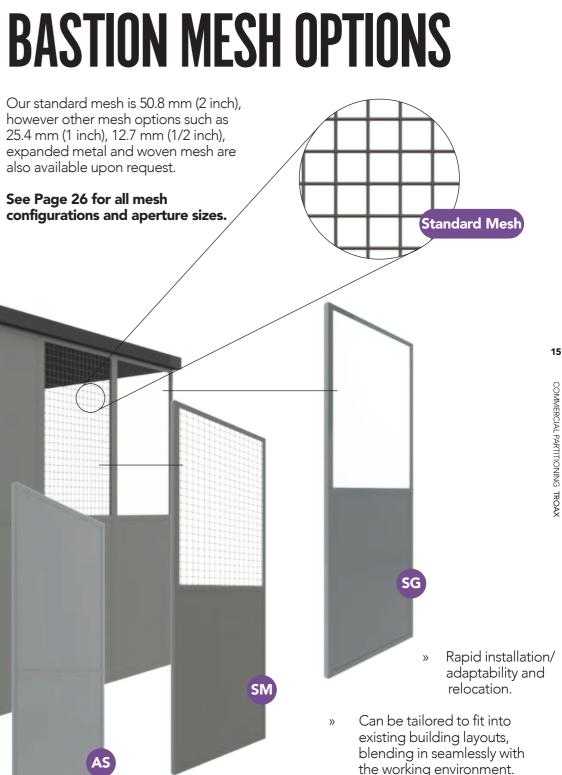
»

for any dynamic workspace.

Expanded Meta

SMS

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Great structural strength, bolted straight into the floor.

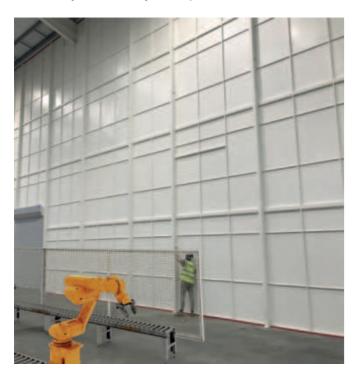
Prevents enclosed areas from intrusion, thus providing a high level of security.

Can be multi-tiered to create a truly demountable system that is ideal

DEMOUNTABILITY, MULTI-TIERING.

Our partitioning ranges are uniquely designed with aesthetics, security, function and adaptability as our main focus. All of our partition ranges have the ability to be completely demountable, enabling one or more panels to be removed and/or replaced without having to dismantle the whole enclosure.

Multi-tiering can also be achieved as our partitioning systems are modular, meaning they have joining functions on all 4 edges of the panels, as well as 3 way and 4 way splitting systems, allowing you to create any enclosure you require.





INSTALL IS PART OF OUR OFFER

Troax offer help with assembly and installation on all our systems. Should you choose to install the products yourself, each Troax delivery includes clear user instructions and assembly guidelines, which make it easy to assemble our system on site. Our smart modular designs arrive prefinished, which enables a fast, clean install and is easily demountable for relocation if required.

DURABLE AND VERSATILE

Every installation is unique and created to meet your specific demands. Our systems are extremely durable and can withstand the most demanding applications. They are versatile and can easily be combined with each other. Troax are committed to being as environmentally friendly as possible in all parts of production. Our panel systems are also 100% recyclable.



HINGED DOORS.

TITAN DOOR

To match the cleanroom function of the Titan system, the Titan Door is enhanced to suit this feature. The door is completely flush minimizing any dust traps and comes with a door closer and a kickplate as standard features, offering further protection in daily use. A two-tone option is available whereby the door is a different colour on either side.



ELAN DOOR

The Elan Door compliments the Elan system perfectly, offering the same high quality and safety standard expected from Troax products. Various shapes and sizes of vision panel or none are available. A twotone option is also available whereby the door is a different colour on either side.



THROUGH YEARS OF EXPERIENCE. TROAX DOORS HAVE BEEN **DESIGNED AND DEVELOPED TO** ACHIEVE A SECURE AND DURABLE DOOR SUITABLE FOR ANY WORK **ENVIRONMENT. EACH RANGE HAS** THEIR OWN VARIETY OF DOORS WHICH INTEGRATE WITH THEIR **RESPECTIVE SYSTEM TO CREATE** AN AESTHETIC, SAFE AND **RELIABLE ACCESS POINT.**

BASTION DOOR

The Bastion system has its own range of doors to match the enclosure. Fully equipped with high quality door handles and/or locks and a door closer, it provides a safe and durable point of entry or exit. Door and vision panel options include standard mesh, expanded metal, perforated sheets, woven mesh or glass.



SIGMA DOOR

The Sigma door comes fully equipped with high quality door handles and/or locks and a door closer. Door and vision panel options include standard mesh, perforated sheets or glass.



SLIDING DOORS.

- » Single or bi-parting sliding doors.
- » Available in Bastion, Sigma and Elan.
- » Made to accommodate most door sizes.
- » Unobstructed door openings.
- » Large door options suitable for forklifts.
- » Full steel, mesh or glazed.
- » Integrated and smart locks.



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TROAX OFFER HIGH PERFORMANCE AND SMART ACCESS POINTS IN THE FORM OF SLIDING DOORS. SLIDING DOORS PROVIDE AN AESTHETIC SOLUTION FOR AREAS WHERE SPACE IS AT A PREMIUM.



ROLLER Shutters.

We offer roller shutters for a wide range of applications such as warehouse, industrial, commercial, factory, retail and security. We can also provide fire rated roller shutters.

Manufactured from galvanised steel or extruded aluminium, all our roller shutters are tested and certified to British and European safety standards and are CE marked.

We have a wide range of roller shutters, from high speed roller shutters and transparent, perforated or solid roller shutters to manual garage roller shutters, available and designed to fit both your needs and your budget. Please contact us about your roller shutter requirements. TROAX PROVIDE ROLLER SHUTTERS AS ALTERNATIVE ACCESS POINTS. WE CAN HELP YOU SELECT THE CORRECT TYPE OF PRODUCT TO SUIT YOUR REQUIREMENTS. OUR ROLLER SHUTTERS ARE MADE TO SUIT YOUR OPENING SIZES, APPLICATION, SECURITY RISK, FIRE RISK AND BUDGET.





CEILINGS.

TRO-GRID (SUSPENDED CEILING)

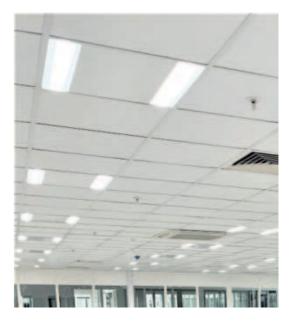
- » Popular in warehouses and factories.
- » Compatible with all our ranges.
- » Variety of ceiling panels and styles available.
- » Spans up to 7000 mm wide.
- » Other spans available upon request.
- » Standard sizes of tiles are 600 x 600 mm and 1200 x 600 mm.
- » One-hour fire rating available upon request.

TRO-SPAN (DOUBLE SKIN STEEL CEILING)

- » Spans up to 7000 mm.
- » Other spans available upon request.
- » Modular design for quick install.
- » Compatible with all our ranges.
- » One-line junction system.
- » Different panel styles available such as perforated steel for enhanced acoustic capabilities.
- » Merge seamlessly with Elan and Titan partitioning.
- » Lights can be implemented to match the ceiling style.
- » Multiple thickness available: 100 mm, 150 mm and 200 mm.
- » Variety of fillings available: Mineral Wall, PIR (polyisocyanurate) and PP (Polystyrene).

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FIND THE PERFECT WAY TO ENCLOSE YOUR PARTITIONING. TROAX OFFER A VARIETY OF CEILINGS TO SUIT ALL APPLICATIONS.





ACCESSORIES **COMPLETE THE PICTURE**.



RECESSED SOCKETS

Our recessed sockets provide a sleek finish to your partitioning electrical and data needs, having an almost flush surface allows for an aesthetic yet functional appearance.



GLAZING

Our Titan glazed panels consist of flush glazed toughened glass with polished edges, allowing for a modern look. We provide double and single glazing with 6.4 laminated glass for all our other ranges.



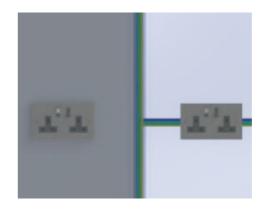
HATCHES

Hatches offer access points which can be integrated into the partitioning seamlessly, giving it a sleek and professional look. They are manufactured to the same standard as their respective partitioning system.



VARIOUS LOCK OPTIONS

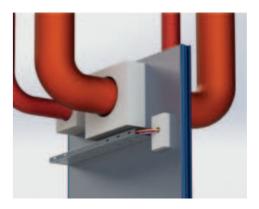
Our doors are designed to fit a wide variety of different locks and handles, ranging from 3 lever deadlocks, bathroom locks and sash locks. Contact us for any of your door lock requirements.



INTEGRAL WIREWAYS The design of our partitioning systems allows for wireways in between panels. This allows for a sleek and mess free solution for your wiring needs.

> TROAX OFFER A MULTITUDE OF HIGH-QUALITY ACCESSORIES TO FULLY FINISH AND COMPLIMENT YOUR INSTALLATION. WE ARE COMMITTED TO MAKING THE PERFECT SOLUTIONS FOR YOUR WORKSPACES. TO FACILITATE THIS, BESPOKE ACCESSORIES ARE AVAILABLE UPON REQUEST.





PENETRATIONS

If there is pipework throughout your partitioning, we can accommodate for any shape and size of penetration. We also provide fire stopping should the project be fire rated.

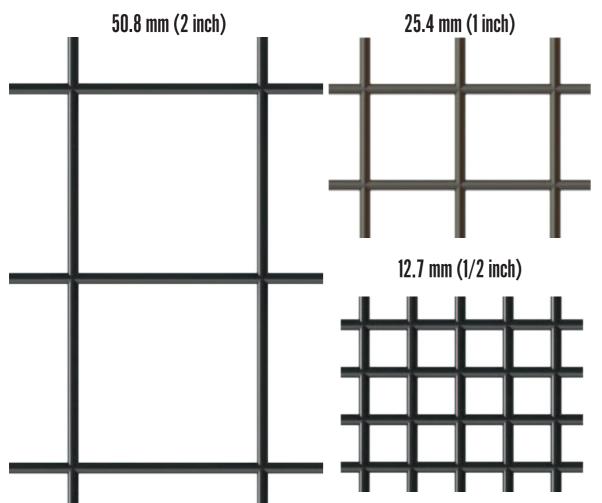
STANDARD WE OFFER PERFORATED SHEETS. WOVEN MESH AND EXPANDED **METAL IN PLACE OF STANDARD** MESH, FULFILLING ALL YOUR MESH NEEDS. **AND OTHER MESH OPTIONS.**

Our single skin systems Sigma and Bastion are available in mesh panel configurations. Our standard mesh is a 50.8 mm (2 inch) aperture mesh panel welded to the frame. Another popular mesh size is 25.4 mm (1 inch). 12.7 mm (1/2 inch) mesh is also very popular.

Other mesh sizes are available upon request. Please contact us for further details.

Our welded wire mesh is a 3 mm thick metal wire screen that is made from various alloys including steel, stainless steel, brass and copper. Grids of parallel longitudinal wires are welded to cross transverse wires at the required spacing, using electric fusion. The machines that are used to produce the mesh have precise dimensional control.

Have a look at our popular mesh sizes below, all to scale.



EXPANDED METAL

An expanded metal sheet is made by first creating multiple slits in the sheet, and then stretching the sheet. The stretching creates a unique diamond pattern opening with one of the strands protruding at a slight angle. The process produces an extremely strong and efficient mesh panel.

A large range of expanded mesh types are available. They are available to fit any size panel you require and will provide an aesthetically pleasing, secure and safe mesh panel.

PERFORATED SHEETS

Perforated sheets are made from sheet steel that has holes (or other designs) punched out of it. These holes can be straight rows or staggered to increase the amount of the openings, depending on your aesthetic requirements.

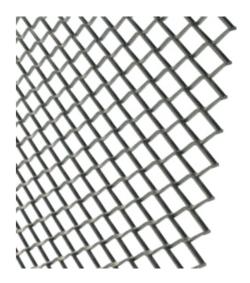
They are available to fit any size panel you require and will provide an aesthetically pleasing, secure and safe mesh panel.

From lightweight decorative elements to load-bearing structural components, perforated metal offers unique opportunities to combine strength, functionality and beauty.

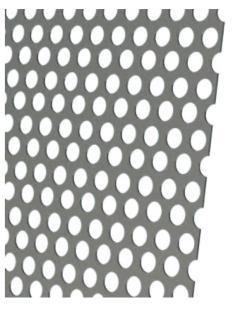
WOVEN MESH

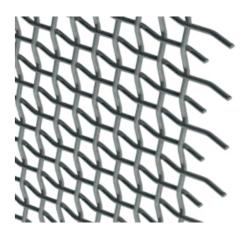
Woven wire mesh is made by weaving longitudinal and transverse wires together. The interwoven structure produces a sturdy and stable fence application.

They are available to fit any size panel you require and will provide an aesthetically pleasing, secure and safe mesh panel.





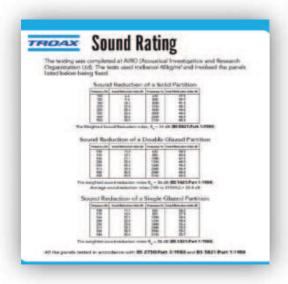




FIRE RATING **& ACOUSTICS.**



The mineral wool also provides noise reduction capabilities of up to 32dB (tested to BS 5821:Part 1:1984).



IF FIRE SAFETY AND SOUND PROOFING ARE REQUIRED, OUR MARKET LEADING **ELAN DOUBLE SKIN PARTITIONING** SYSTEM IS AVAILABLE BOTH FIRE-RATED AND ACOUSTICALLY ENHANCED.

Our fire rated panels are infilled with mineral wool and tested to BS 476: Part 22:1987 and have fire ratings of up to 1 hour, depending on panel configuration.

We have also achieved a Class O specification and have been tested for flammability to BS 476: Parts 6 & 7.

Please contact us about your fire rating/ acoustic partitioning requirements.

TROAX	Fire Rati	ng
For information - deta	als on the fire rating capabilitie	s which are not in o
All panels/doors infille type:	ed with mineral wool, glazing o	eeds to be wired or
All tests performed in	accordance with or tested to I	85 476: Part 22:198
Our powder coating to to and complies with	us achieved a Class O classific BS 476: Parts 6 & 7.	ation and has been
The table below show	s values in minutes pertaining	to integrity
	Product	Fire Rating
	Product Steel / Class / Steel Panel (tingle glazed)	30 minutes
	Steel / Glass / Steel Panel	
	Steel / Class / Steel Panel (bingle-glazed) Steel / Class / Steel Panel	30 minutes
	Steel / Glass / Steel Panel (trigle glazed) Steel / Glass / Steel Panel (double glazed) All Steel Panel	30 minutes 60 minutes
	Steel / Glass / Steel Parvel (bingle classed) Steel / Glass / Steel Parvel (double glazed) All Social Parvel (biolid) Single Door	30 minutes 60 minutes 60 minutes

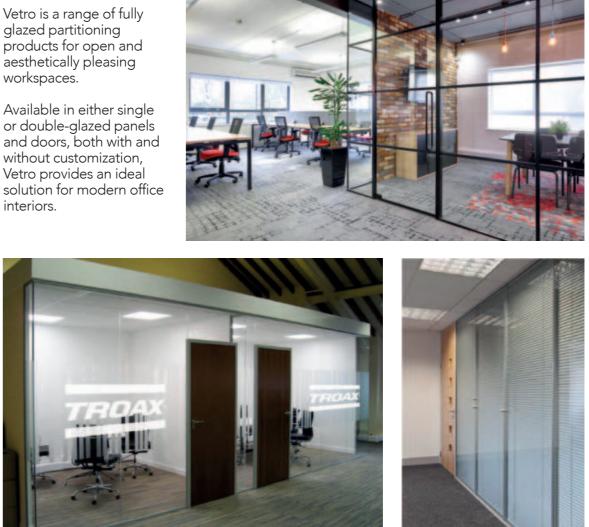
VETRO FULLY GLAZED.

ELEGANT AND OPEN

Vetro is a range of fully glazed partitioning products for open and aesthetically pleasing workspaces.

Available in either single or double-glazed panels and doors, both with and without customization, Vetro provides an ideal interiors.





The aesthetic properties of Vetro make work environments feel stylish and fluid. It offers attractive physical properties such as an acoustic rating and clear aesthetic views. It provides offices the privacy they require.

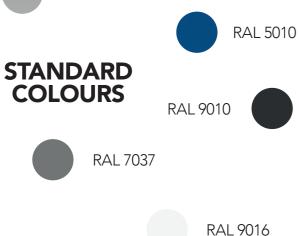
Single glazed panels have an acoustic rating of 39 dB whilst double glazed panels are 47 dB.

Specialist artwork and logos can be printed onto the glass for your branding requirements.

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<section-header>

BS.08.B.17 BS.00.A.05



We always prepare our products to the highest of quality. All panels are supplied with a TGIC and lead-free powder coat to an average thickness of 70 microns.

Non-standard and corporate colours are also available upon request, as are anti-static/electro dissipative and antimicrobial powder coatings.

The Bastion system can also be offered in a Hot-Dipped Galvanised finish.

Panels are prepared and powder coated in our UK based factory.

* Available at extra cost.



NBS NATIONAL BIM LIBRARY.

THE FASTEST GROWING LIBRARY OF DIGITAL PRODUCT INFORMATION.

This award-winning library is quickly becoming the future of the construction industry. Troax are proud members of the NBS National BIM library, and our 3D products can be downloaded with all their relating specifications for anyone to see.



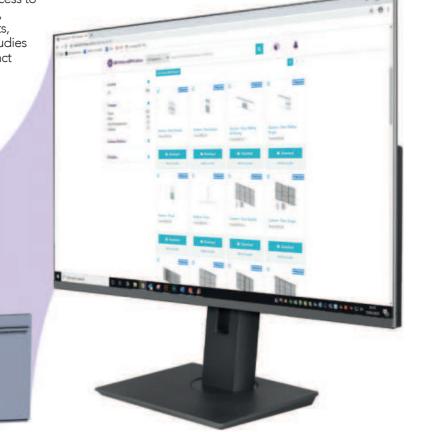
The RIBA CPC Providers Network is vital in today's industry for creating the all-important relationship between manufacturers and architects.



NBS Plus is a library of manufacturers' technical product information. This information is stored in a standard format and can be found in the relevant clauses within the NBS Specification software. They can be added to any specification at the click of a button.



The RIBA Product Selector offers customers access to product catalogues, technical documents, design files, case studies and company contact details.



LOCAL & GLOBAL PRESENCE.



At Troax, we meet your needs through local sales offices, backed up by daily deliveries from the world's largest warehouse for mesh panels, Troax Hillerstorp, Sweden.

STRONG MARKET SEGMENTS

Our systems are marketed in four segments: Commercial Partitioning, Machine Guarding, Warehouse Partitioning and Property Protection.

1. COMMERCIAL PARTITIONING

We are continuously testing and improving our ranges of commercial partitioning with the aim that every work environment should be as enhanced and as safe as possible. Through years of experience and intelligent engineering, this goal is becoming more possible than ever.

2. MACHINE GUARDING

Today's modern industry - with its advanced processes - places significant demands on safety. In particular, there is a great need for controlled access for authorised personnel. Our mesh panels are based on a carefully developed modular system that also includes special adaptations.

3. WAREHOUSE PARTITIONING

Troax can meet all requirements for storage and security. We are suppliers to all types of industry –

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TROAX ARE REPRESENTED IN MORE THAN 40 COUNTRIES AND HAVE 24 SALES COMPANIES OF OUR OWN. WE AIM TO STRENGTHEN OUR POSITION WORLDWIDE AND EXPAND OUR BUSINESS IN EACH CONTINENT.

> from traditional manufacturers that require large-scale flows and volumes throughout their factories, to facilities with high-bay storage and retail storage. We can meet all your requirements and we offer complete solutions.

4. PROPERTY PROTECTION

Whether it is a new development or the renovation of an existing installation, we are convinced that you will find our products easy to work with. Your unique needs and our creativity have contributed to our constant product development, giving rise to our motto: "Secure storage must be simple".

COMMERCIAL PARTITIONING

INDUSTRIAL AND INTERIOR APPLICATIONS



Oracle Storage | Unit 6 Minerva House, Calleva Park, Aldermaston, Berkshire, RG7 8NA

www.oraclestorage.co.uk | sales@oraclestorage.co.uk