



MAXIBEAM

LIGHTWEIGHT FEATURE BEAM SYSTEM

Specification guide for walls, ceilings, rafts and screens



INTRODUCING MAXIBEAM

MaxiBeam is the lightweight beam system that provides visual style, alongside being easy to specify and fast to install.

1 Instant visual impact

Recreate traditional timber looks and characterful features, with the comfort of new technologies and a choice of finishes.

2 Adaptable application

Our versatile system is suitable for walls, ceilings, rafts or independent screens. We routinely produce bespoke options to deliver curved designs, geometric shapes and custom angled ends.

3 Quick install

MaxiBeam's fixing systems include fixing cleats and detailed installation instructions.

4 Better acoustics

MaxiBeam is acoustically diffusive. Install under a perforated Supacoustic ceiling or Soft Board acoustic backing to achieve acoustic absorption.

5 Minimal framing required

From only 2kg per beam (depending on size), MaxiBeam is incredibly light, which means specially engineered framing isn't required, keeping the costs down without compromising on visual impact.

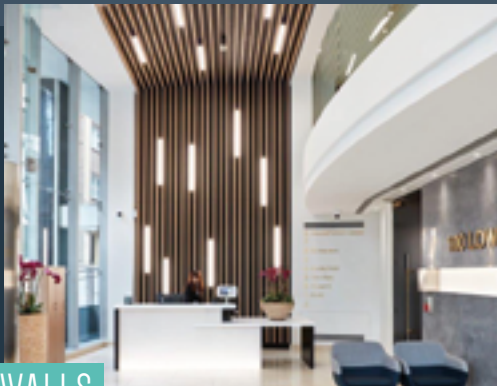




SCREENS

Define areas while maintaining continuity and flow.

SUPAVENEER natural timber veneer balustrades and screen at a university.



WALLS

Create an elegant first impression.

SUPALAMI laminate wall to ceiling feature in a corporate reception area.



FEATURE WALLS AND RAFTS

Define a space.

SUPALAMI laminate raft in the lounge area of a corporate office.



SIZEABLE CEILINGS

Create a chunky beam look.

SUPAVENEER natural timber veneer balustrades and screen for a hotel.



TAILORED SHAPES

As adaptable as your imagination.

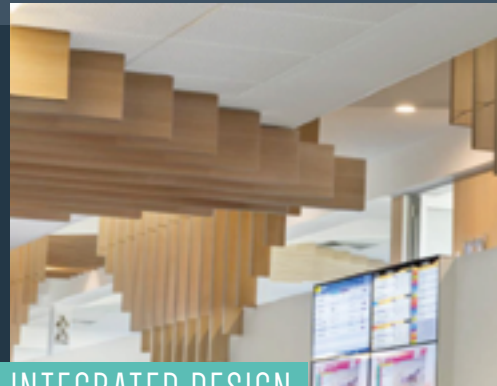
SUPALAMI MaxiBeams were used in the Reception and Bar areas of an office to mirror the shapes and angles of The Shard.



LIGHT IT UP

Integrate lighting.

SUPALAMI shaped beams with integrated lighting in a London bar.



INTEGRATED DESIGN

Mix it up! Play with direction, size and colour.

Staggered SUPALAMI laminate ceiling features and screens in the members' areas at a racecourse.



FLOATING CEILING FEATURES

Create proportion, intimacy and interest.

SUPALAMI laminate beams form floating rafts on the ceiling of the food hall.

WHAT IS MAXIBEAM?

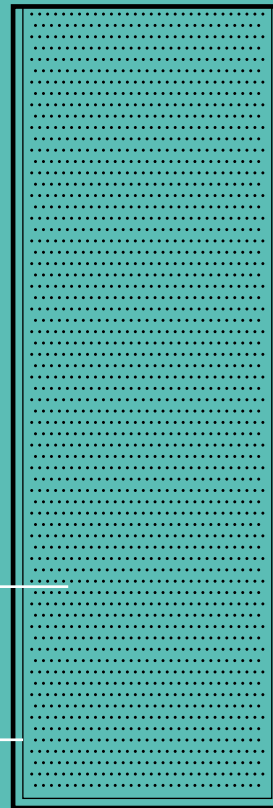
MaxiBeam is so versatile that it inspires creative thinking and new design ideas.

In response, we've been making MaxiBeam even more adaptable with options including:

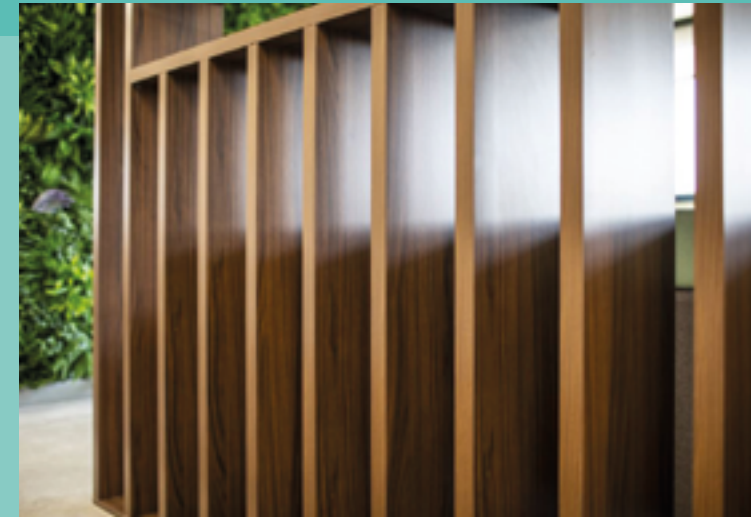
- > Tailor-made shaping and angled ends
- > Integrated lighting
- > Improved choice of finishes
- > Colour match finishes to match panels and slats
- > Bespoke beam sizes

Lightweight hollow-core construction with rigid outer surfaces for strength and durability

Veneer, laminate or painted finish to all visible faces



40 or 50mm





MAXIBEAM IS APPROXIMATELY
50% LIGHTER THAN SOLID
TIMBER BEAMS, MAKING IT
MORE COST-EFFECTIVE AND
EASIER TO WORK WITH





SPECIFYING MAXIBEAM

- 1 CONSIDER THE APPLICATION
- 2 SELECT SIZE
- 3 SELECT BEAM ENDS
- 4 SELECT ACOUSTIC BACKING
- 5 SELECT FINISH
- 6 SELECT FR CLASS
- 7 CONSIDER ACCESS & SERVICE REQUIREMENTS
- 8 SELECT INSTALLATION METHOD

MAXIBEAM CONFIGURATION

Configure your MaxiBeam system in eight easy steps:

1 CONSIDER THE APPLICATION

Whether you're creating a feature ceiling or an elegant, functional space with vertical beams, MaxiBeam is custom made to your specific requirements, providing unparalleled creative scope.

CEILING

SUSPENDED RAFT

WALLING SYSTEM

VERTICAL SCREEN

COMBINATION OF THE ABOVE

2 SELECT SIZE

A – THICKNESS

Choose your preferred size from our standard MaxiBeam range.

B – HEIGHT

Choose your preferred size from our standard MaxiBeam range or talk to us about a bespoke project for vertical applications. We typically recommend 200mm as a minimum beam depth for vertical screens.

C – LENGTH

MaxiBeam typically comes in lengths of up to 3m. Infinite beam lengths are created using our discreet end-to-end joiner system.

D – BESPOKE DESIGN

We provide tailored design support for bespoke beams to suit your project, inclusive of a detailed 3D drawing package. We routinely produce bespoke options to deliver curved designs, ultra-length beams, geometric shapes and custom angled ends. Please contact our Technical Team to discuss your requirements.

STANDARD SIZES

HEIGHT / DEPTH	100mm	125mm	150mm	200mm	285mm
THICKNESS	40 or 50mm	40 or 50mm	40 or 50mm	40 or 50mm	40 or 50mm
APPROX. WEIGHT	2kg/lm	2.5kg/lm	3kg/lm	4kg/lm	6kg/lm
TYPICAL CENTRE VARIANT	100-250mm	125-300mm	150-375mm	200-400mm	200-600mm
TYPICAL SPACING VARIANT	50-210mm	75-260mm	100-335mm	150-360mm	150-560mm



3 SELECT BEAM ENDS

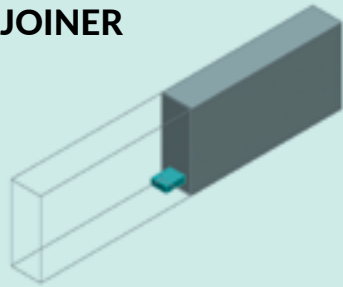
SQUARE END - NO JOINER



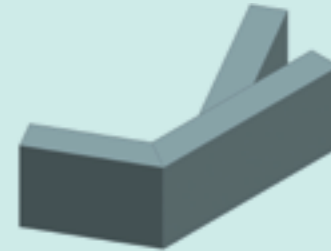
90° VERTICAL TO HORIZONTAL WITH JOINER



SQUARE END - WITH JOINER



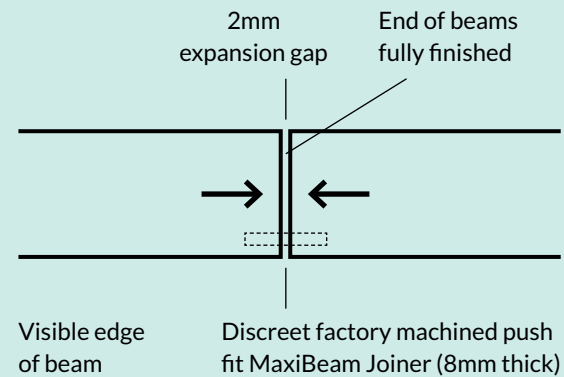
BESPOKE ANGLES



ANGLED END - FULLY FINISHED OR MITRE JOINT



**TYPICAL
END-TO-END
BEAM JOINER**



4 SELECT ACOUSTIC BACKING

MaxiBeam is frequently installed beneath Acoustic Backing Board to provide acoustic absorption:

NO ACOUSTIC BACKING

Beams are decorative only, with the open void and support work or solid ceiling visible above

ACOUSTIC ABSORBER

Nominal 10mm thick black absorber

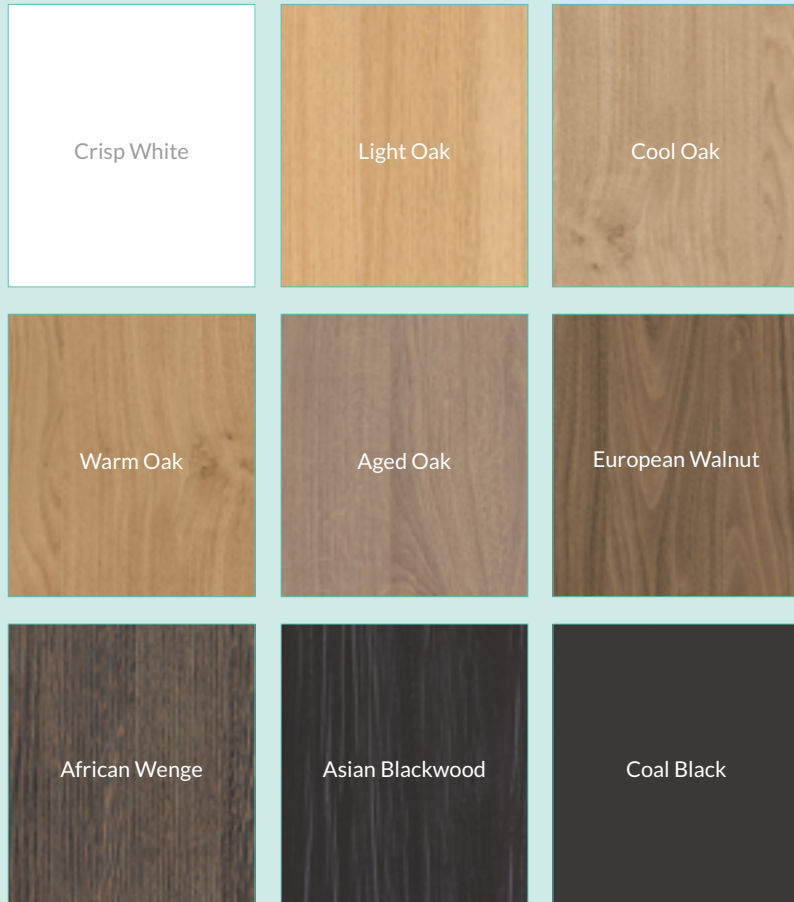
Acoustic Absorption varies according to absorbing material, centres, beam height and void depth. Please speak to our Technical team for details and acoustic test data on 03307 00 00 30.



5 SELECT FINISH

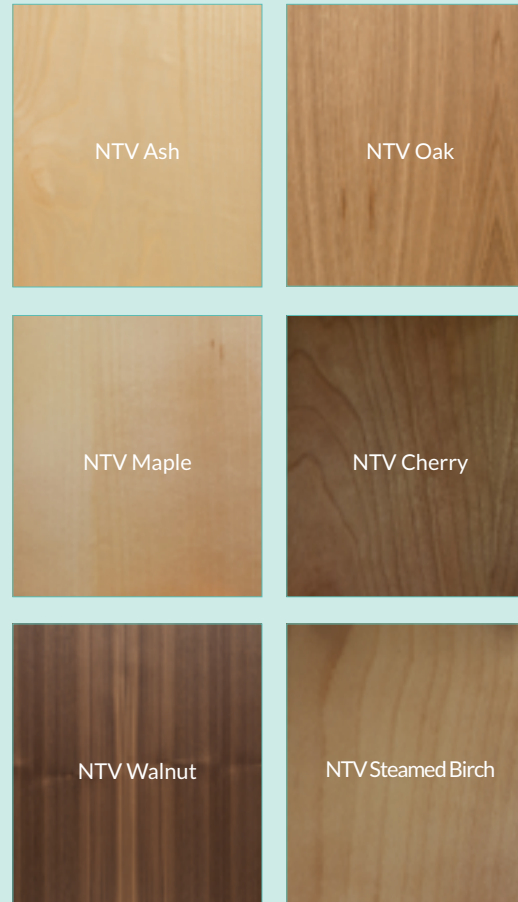
SUPALAMI

High quality hard wearing laminate finish



SUPAVENEER

Beautiful natural timber veneers with a high quality, clear lacquer



SUPACOLOUR

High quality spray-applied lacquer matched to almost any colour e.g. to a RAL or BS reference, in satin, gloss or matt



CUSTOM FINISH

We can produce any other laminate or species veneer of your choice, as well as bespoke lacquer finishes including metallic

6 CHOOSE FR CLASS

FR CLASS REQUIRED

No / Class 1 / Class 0

7 ACCESS & SERVICE INTEGRATION

FULLY REMOVABLE FOR ACCESS TO VOID

ACCESS HATCHES AT SPECIFIC LOCATIONS

HIDDEN DOORWAYS

LIGHTING

HVAC GRILLES

SMOKE DETECTORS & SPRINKLERS

AV SCREENS AND CABLING

Please contact us to discuss bespoke installation requirements on 03307 00 00 30.

8 CHOOSE INSTALLATION METHOD

Our MaxiBeam system is designed for quick installation for a discreet finish. MaxiBeam is supplied as individual beams, fully finished to avoid on-site cutting and finishing. Beams can be installed so they are removable if required.

The MaxiBeam system can be fastened to almost any common substrate, for example:

Ceilings and Rafts

- › Timber rails and frame
- › Unistrut
- › Casoline MF

Walls

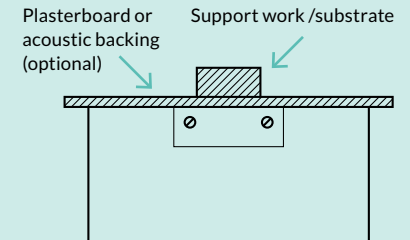
- › Masonry
- › Concrete
- › Wooden or timber-based boards
- › Stud partitions (for example Gyproframe)

FOR CEILINGS, RAFTS AND WALLS

FIXING CLEAT

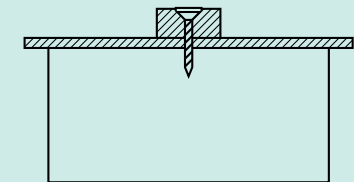
Push beam over pre-installed cleats and pin through face into cleat.

If MaxiBeams need to be removable, use small screws instead of pins.



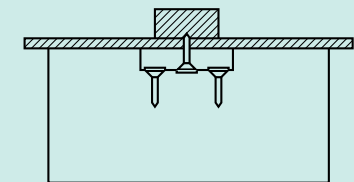
SCREW FROM REAR

Screw through support work into the solid rail on top of the beam.



CLICK-FIX (REMOVABLE)

Fit male click-fix to support work. Slide the beam along to engage with female click-fix mechanism.



	Removable	Ease of install	Discreet fix	Advantage
FIXING CLEAT	<p>✔ Yes, but need small screws and right-angled cordless</p>	Simple process but slightly longer than click fix	Yes – wax over pin holes. If access required, deal caps/stickers should be used	Simple, cost-effective method
SCREW FIX	<p>✔ Yes, if you can get your arm into the void to unscrew it</p>	Simple process and quick	Yes - no visible fixings	Extremely simple, quick and secret fix Ideal for suspended rafts
CLICK FIX (PLASTIC)	<p>✔ Yes, must un-install sequentially</p>	Very simple and Quick	Yes - no visible fixings	Quick and easy to install, MaxiBeams are removable
CLICK FIX (METAL)	<p>✔ Yes, must un-install sequentially</p>	Very simple and Quick	Yes - no visible fixings	Quick and easy to install, MaxiBeams are removable

FOR VERTICAL SCREENS

MaxiBeam screens can be fastened to almost any common ceiling or floor, for example:

- › Solid or Built-up floors
- › Plasterboard or grid and tile ceilings
- › Solid walls or stud partitions

For more help with installing MaxiBeam screens please contact our technical team on 03307 00 00 30.

Vertical screens can be:

VERTICAL SLATS

HORIZONTAL SLATS

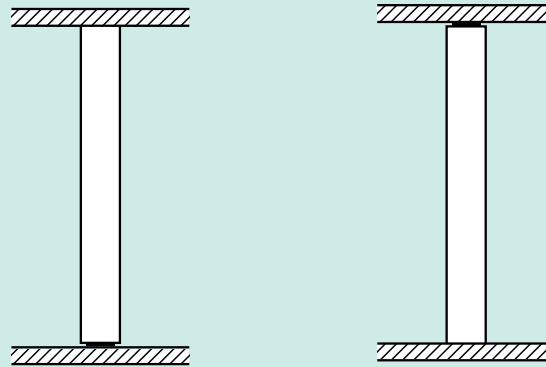
ANGLED AND LOUVRED SLATS

COMBINATION OF THE ABOVE

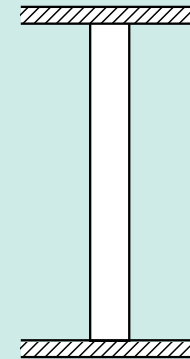
VERTICAL SLATS

Screen installation method will depend on the construction it is fastened to and if it needs to be removable. The examples below are shown for vertical slats:

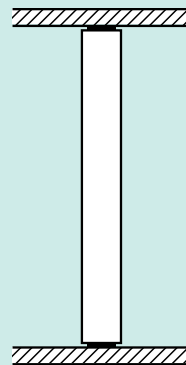
SHADOW GAP AT FOOT OR HEAD



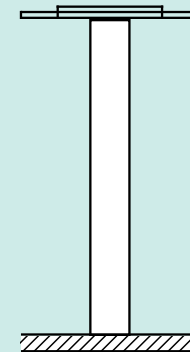
NO SHADOW GAP



SHADOW GAP AT BOTH

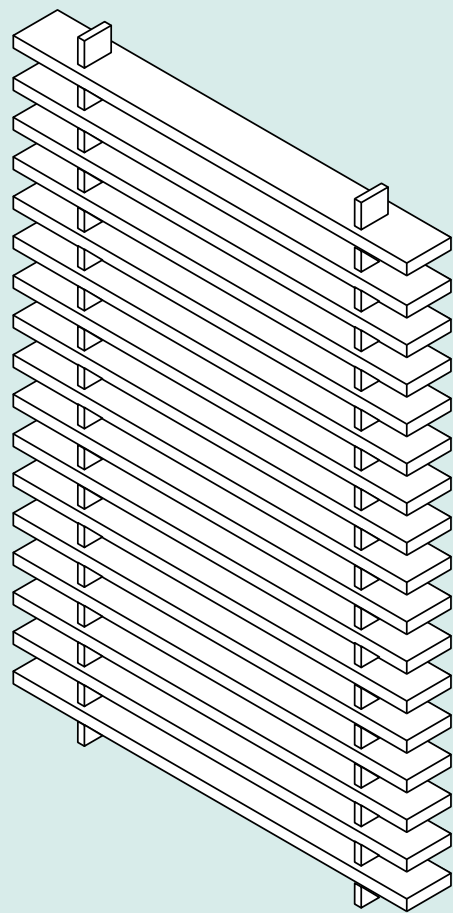


NO SHADOW GAP - FOR GRID & TILED CEILINGS



HORIZONTAL SLATS

Screens with horizontal slats are supplied as a kit that includes vertical support rails, sleeves to cover them and beams with holes to slide over them – all easily assembled on site.



BESPOKE ANGLED CEILINGS AT THE SHARD

THE BRIEF

This was a complete office fit-out with emphasis on quality finish, acoustic performance and access integration.

The end client wanted to consolidate into a single office location, improve utilisation and building user satisfaction, as well as showcase their technology capability.

BESPOKE CEILING SOLUTION

- › MaxiBeam 150mm(h) x 40mm(t) finished in Black Class 0 FR lacquer
- › Technical challenges with angled ceilings, angled beams and bespoke sizing to fit the exact specification
- › Lightweight beams so minimal support work required
- › Angled beams, factory cut with spray-finished angled ends, supplied to the exact site dimensions
- › No on-site cutting or finishing
- › Access and service integration with the use of Click-Fix 1 installation system to make some beams removable





END RESULT

Vtec's MaxiBeam and Supacoustic systems combined in this modern, acoustic design. 600 people moved into these London offices in the iconic Shard building supporting fully flexible working in an innovative workspace.

Proactive management ensured delivery on time, to cost and to the highest standards, ensuring a smooth relocation and business continuity.



MAXIBEAM SYSTEM AT MAJOR UK UNIVERSITY

THE BRIEF

This was a largescale MaxiBeam project for both walls and ceilings in a 3-storey atrium of a university reception, including shaped beams up the stairwell. It involved different geometry and elevations, using lengths of MaxiBeam at 75-125mm x 50mm(t) finished in Warm Oak.

TECHNICAL CONSIDERATIONS

- › Different geometry, planes and elevations in each area
- › Technical challenges around windows to ensure beam aesthetics and appropriate support
- › Air conditioning and lighting integrations
- › Fine tolerances on all beams, supplied fully finished with detailed installation instructions
- › Discreet access and service integration with Click-Fix system to make some beams removable





END RESULT

One key technical challenge was that the vertical beams had to span over the large windows. The team calculated exactly where supports were needed for maximum strength and discreet fixing, which ensured that the MaxiBeams were visible - and equally as pleasing to the eye - from both sides of the glass.

Beams flowed down the building and wrapped under the soffit, where the MaxiBeam system had been designed with black acoustic backing and a unique support framework to disguise the void.

The ceiling area above the food counter included a range of access and service integration requirements, so the discreet Click-Fix installation method ensured the beams could be easily removed.



VERTICAL SCREENS FOR OFFICE ZONING

THE BRIEF

Clever use of Vtec's MaxiBeam System allowed the design team to create a more private space in this office that feels distinct without being isolated. Seamlessly flowing from floor to ceiling this elegant yet functional screen forms a relaxing space in the middle of a high traffic zone.

SCREEN AND CEILING SOLUTION

- › MaxiBeam in Supalami laminate finish
- › Seamless flow from floor to ceiling with discreet joints and integration with lighting
- › Lightweight beams so minimal support work required
- › Angled beams, factory cut with spray-finished angled ends, supplied to the exact site dimensions
- › No on-site cutting or finishing
- › Concealed fixing system and Click-Fix installation method





END RESULT

The screen was assembled using the Click-Fix method, following the detailed fitting instructions and drawings provided. Time spent at the planning stage ensured smooth installation.

Our concealed fixing system created the lightweight, seamless look that's difficult to achieve with other types of beams of a similar size. Simple batten lights integrated into the scheme look sleek and sophisticated, enhancing the atmosphere.



VTECGROUP.CO.UK

Contact our technical team to discuss your application, samples or other questions.
We're here to help.

London Showroom The Design Hub, Clerkenwell,
47 Gee Street, London, EC1V 3RS

Head Office and Manufacturing Vtec Group Ltd, Unit 3
Cooksland Industrial Estate, Bodmin, Cornwall, PL31 2QB

Call 03307 00 00 30
Email sales@vtecgroupp.co.uk
Visit vtecgroupp.co.uk

