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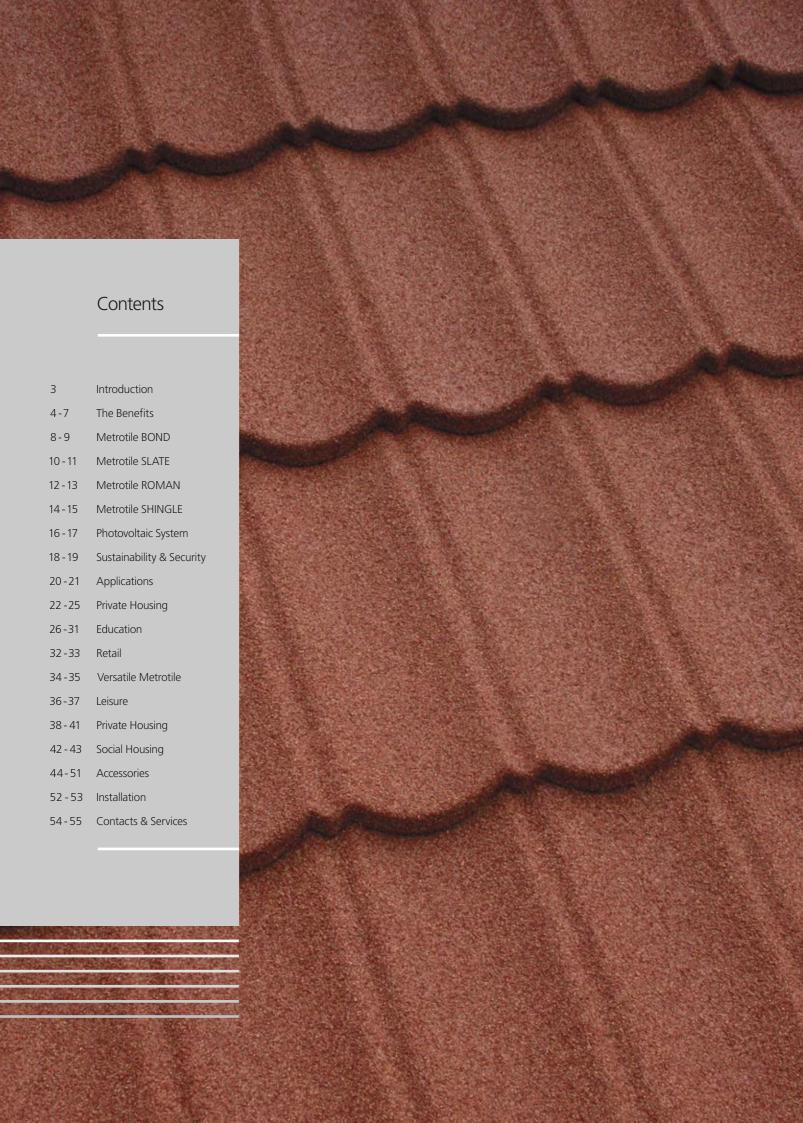
LIGHTWEIGHT HIGH QUALITY LONG LASTING LOW MAINTENANCE WEATHER TESTED

ECOLOGICAL LOW NOISE ECONOMIC STRONG



Changing Skylines







Metrotile UK supplies lightweight steel roofing systems to the UK and Ireland markets and is part of a 30 year old international success story as our systems and accessories can be seen on rooftops in over 60 countries worldwide.

Whether working on a residential, commercial, leisure or retail building, many people have found Metrotile to be the ideal roofing system for their projects. Practical, economical and sustainable, Metrotile is up to seven times lighter than traditional roof materials, yet offers unmatched protection and security. Aesthetically indistinguishable from traditional roofing materials, a Metrotile roof is an elegant choice for any building.

In addition to this, each Metrotile profile is made with sustainability in mind, from the day of manufacture in our ISO14001 accredited factory and throughout a lifetime of unsurpassed protection. Then, once the profile reaches the end of it's long natural life, it can be fully recycled.

Metotile doesn't just offer tiles. Everything your roofing project needs can be sourced directly from Metrotile, from high quality underlays to integrated Photovoltaic systems. Metrotile is also an authorised dealer for window systems from Velux and Keylite, offers bespoke ventilation accessories and innovative products such as the Solatube. So whatever the roofing requirement, Metrotile is your one-stop-shop for everything you need.

Metrotile is proud to offer the very best quality products in its field - and we are still the only lightweight steel roofing manufacturer able to offer a 40 year weatherproof guarantee on all of our profiles, complimented by the know-how and expertise of our highly experienced customer care and sales teams.

Why settle for the drawbacks of traditional roofing products?

Take your building project to the next level with Metrotile:

THE FUTURE PROOF ROOF

Metrotile Lightweight Steel Roofing

THE FUTURE PROOF ROOF

The roof is a symbol of security and shelter. Whether protecting your home and family, keeping the indoor courts of a leisure centre dry or keeping you sheltered while waiting for the bus, the roof is the most significant part of any building project.

Lightweight steel roofing has evolved to become a product that offers benefits that exceed those of traditional roof tile materials and is held in high esteem by our all-sector spanning customer base.

For any modern building project, a new or refurbished roof needs to be:



Made from the Highest Quality Materials



Sensitive to the Environment



Aesthetically Pleasing



Resistant to Extreme Weather Conditions



Long Lasting



Low Maintenance



Low Noise

and in today's demanding environment



Economical



Environmentally Sustainable



Vandal Resistant

A Metrotile roof satisfies these requirements and exceeds the expectations of traditional roofing materials



The **BENEFITS**

► The very best modern materials for the longest lifespan

40 year

Weatherproof

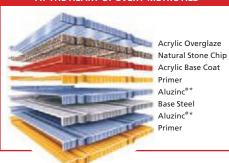
Guarantee

Metrotile is still the only lightweight steel roofing manufacturer that is able

offer a 40 year Weatherproof

Guarantee on all of our profiles. Crafted to the highest standard under meticulous conditions, each Metrotile is pressed from **Drawing Quality 3 Steel**, the highest steel grade available in our industry. The low carbon level within the steel allows the metal to flow evenly during manufacture, creating a highly durable tile while practically eliminating the risk of fracture.

AT THE HEART OF EVERY METROTILE



Metrotile continues the use of high quality resources during the galvanization process. Bucking the trend for galvanizing steel roof tiles with compounds that contain 95% Zinc,

Metrotile uses Aluzinc®* Combining 55% aluminium with 45% zinc, Aluzinc®* forms an exceptionally stable barrier that offers superior corrosion resistance that is unmatched in the steel roofing industry.

The weather side of each profile is then coated with an even layer of base coat

primer. This is a pigmented water-based acrylic, into which the coloured stone granules are bonded. Once this has set, a final overglaze is applied, resulting in a tile that is **virtually maintenance free!** This protects the profile and your home from weather, while boosting your roof insulation.

It's worth noting that the life expectancy of steel is greater than forty years ensuring that:

a Metrotile Roof is for Life

► Applications and aesthetics

There are four different profile styles in a variety of different colours and finishes. With the many combinations this offers we are sure you will find the ideal roof for your building project. Each profile is designed to reflect the styles of traditional roof products in order to blend into the surrounding environment.



Here's a few facts about Metrotile Lightweight Roofing you should know...

Metrotiles are up to 7 times lighter than traditional roofing materials

A Metrotile lightweight roof places significantly less weight and stress on supporting structures and foundations

Lightweight tiles are more efficient to transport resulting in reduced cost and lower CO2 emissions

A Metrotile roof generates no more noise than a roof built from traditional materials

Metrotiles are tested to withstand the most extreme weather conditions

Metrotiles can be used on pitches as low as 10 degrees

The special "Dry-Fix" installation method is faster, cheaper and produces less waste than a traditional roofing installation

Every installation comes with a unique 40 year weatherproof guarantee

and...

^{*} Aluzinc 185 or similar/equivalent protective layer

High weather resistance

Metrotile profiles are tested under duress of the most extreme weather conditions. Our tiles have been fire tested in brushfire prone California, cyclone tested in Japan and are resistant to cyclical freeze-thaw, snow and hailstones.

And if this isn't enough, a Metrotile roof is resistant to wind lift speeds up to 192km per hour, making it the only choice in areas under constant duress from high winds.



Economical

A Metrotile roof is highly economical for many reasons. Each profile is up to seven times lighter than traditional roof tiles, meaning a Metrotile roof requires significantly less transport than those products, making the delivery of your roof easier on the environment and your pocket. The quick dry fix installation enables you to keep contractor costs to a minimum.

► Environmentally friendly

Each of our profiles is manufactured at our plant in Tongeren, Belgium and we are very proud to announce that the plant has achieved **Quality Assurance**Systems ISO14001 for its manufacturing processes, complimenting the alreadyachieved ISO9001. When the products



leave the plant, we can transport up to eight times more Metrotiles per truck in comparison to traditional roofing products, therefore requiring less transport on the road and significantly reducing our carbon emissions. Once each profile reaches the end of its long life, it can be fully recycled.

For details about the many environmental benefits of choosing Metrotile see pages 18 and 19.

Vandal proof

Metrotile systems are dry fixed in place via a crossing nail technique. This interlocking fixing process makes a Metrotile roof extremely secure. Each Metrotile profile has the coverage of up to eight traditional tiles making it even harder to remove from the roof and if you require an even higher level of security, there is the option to specifiy the Metrotile Secure Solution: a selection of our profiles are available in .900mm thickness** for extra vandal resistance. Despite all of this protection, Metrotile still offers high aesthetic standards that are virtually indistinguishable from traditional roofing tile products!

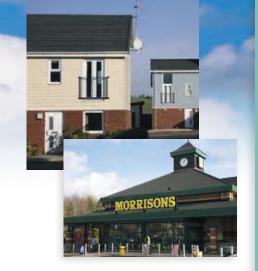
For further details about the Metrotile Secure Solution see page 19.

Low noise



A common misconception is that a Metrotile Roof is noisy when under duress from the wind and rain, but this

* Steel thickness according to FN 10346 A WORLD OF DIFFERENCE Based on a typical 1,000m² roof cover specification, compare the huge differences between Metrotiles and traditional Concrete Tiles **METROTILE** OUANTITY **OF TILES CONCRETE REQUIRED** OVERALL CO² WEIGHT PRODUCED NUMBER OF TILES **BY RAW** OF PALLETS MATERIALS 10,000 REQUIRED 46 **TONNES** 11 TONNES 6 TONNES 2,150



is simply not the case. The combination of stone and acrylic glaze with a Metrotile underlay is such an effective noise barrier that the soundproofing qualities match those of traditional products, ensuring you a good night's sleep during those wet winter nights.

► Fast installation



From delivery to manual on-site labour, the Metrotile installation process is a swift one. The light weight of the product allows for the delivery of a complete roof in minimal time and transport, while the weight and coverage of each profile allows for a fast and clean dry fix installation, enabling early access for internal trades. The material is also easy to store and move around site, while the high material yield and minimal breakages ensure almost zero waste.

Ideal for new build and refurbishment

Metrotile roof solutions are ideal for refurbishment work, enabling swift and economical flat to pitch conversions, allowing pitches to be designed as low as 10°. In some instances, Metrotile has been specified for refurbishment projects as a partial roof replacement, sharing the roof space with traditional materials and blending in effortlessly. An example of this, Gorse Hill School, can

Certifications

be seen on page 26.

Details about all of our achieved agréments and standards can be viewed online at www.metrotile.co.uk















Metrotile Shingle selected for Eco Log House

Metrotile was selected as the ideal roof for Grand Designs' Log House exhibited at the EdExcel Arena, London. Manufactured from fir trees sourced from sustainable UK forests, the Log House was created with sustainability in mind. Metrotile was specified due to its light weight, unparalleled strength, low whole life costs, use of recycled material and stunning aesthetics.

... a few more!

Each tile is pressed from the highest drawing quality steel for unparalleled strength and higher performance than traditional materials

A Metrotile roof needs virtually no maintenance once installed

All Metrotiles meet British and European Standards

Metrotile can organise a complete roofing solution, including approved contractors and materials

Each tile is 100% recyclable

A selection of tiles are available in a double thickness which increases security against vandalism

Metrotiles provide an ideal solution for flat-to-pitch roof conversions

A wide range of roof accessories are available including windows, ventilation systems, photovoltaic panels and finishings

The durability of Metrotiles reduces damage in transit and reduces material wastage

Each Metrotile product is designed and manufactured to the highest possible standard and quality

Experienced customer care is provided at every stage of your project

Impressed?

Metrotile BOND 450 / 900 Specifications

PITCH	
Minimum pitch	10°
Maximum pitch	90°

DIMENSIONS

Size of tile - overall	1330 x 420 mm
Size of tile - cover	1257 x 370 mm
Gauge of Steel**	.450 mm / .900 mm
Linear cover width	1257 mm
Coverage	0.46 m ² 2.15 Tiles per m ²

WEIGHT

Weight per m² (450/900) 6.2 kg / 9.9 kg Weight per tile (450/900) 2.8 kg / 4.6 kg

FIXING

Tile fixing	50 mm x 2.8 mm Coated Nail
	Hand nailing or power tool

Fixings per tile 4 Nails per Tile

BATTENS REQUIRED

Battens 5 linear metres per m² (plus wastage)

BATTEN SIZING

(max)	(recommended)
450 mm	25 x 50 mm
600 mm	25 x 50 mm
900 mm	50 x 50 mm
1200 mm	50 x 50 mm
1500 mm	50 x 65 mm

LAYING (recommended)

All root	shapes	Broken Bond

ACCESSORIES	
	See Page
Tile Accessories	32 - 39
Ventilation	34 - 37
Underlay	32
Eaves Protection	37
Installation Equipment	39











Metrotile Bond 450 & 900

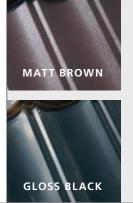


The ever popular traditional pantile design

The Metrotile Bond profiles are designed to be aesthetically indistinguishable from traditional clay pantiles, so they can offer the same great visual appeal, with all of the additional benefits lightweight steel roofing provides. Metrotile Bond is available in six colours and pressed from high grade Aluzinc®* coated steel - standard for all of our profiles. In addition to our traditional granulated finish, we can now offer elegant Matt Brown and Gloss Black finishes with a non-toxic powder coating.

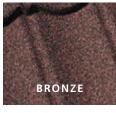
When dry-fixed to the roof, Metrotile profiles are overlapped and fixed via a cross nail method that provides excellent vandal resistance, durability, protection and unmatched resistance to wind lift. Each tile is the equivalent of eight conventional roof tiles and may be fixed from vertical right down to a 10° pitch.

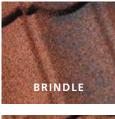




Metrotile Bond is now available with two brand new stylish finishes: Matt Brown and Gloss Black. Finished with a durable, non-toxic powder coating, the new profiles combine sharp, stunning aesthetics with the high quality for which Metrotile is renowned and are backed by our 40 year weatherproof guarantee.













Metrotile SLATE 900 / Woodshake 450 Specifications

12°

Maximum pitch	90°
DIMENSIONS	
Size of tile - overall	1330 x 420 mm
Size of tile - cover	1257 x 370 mm
Gauge of Steel**	.450 mm / .950 mm
Linear cover width	1257 mm
Coverage	0.46 m ² 2.15 Tiles per m ²

WEIGHT

PITCH

Minimum pitch

Weight per m² (450/900) 6.2 kg / 9.9 kg Weight per tile (450/900) 2.8 kg / 4.6 kg

FIXING

Tile fixing 50 mm x 2.8 mm Coated Nail Hand nailing or power tool

Fixings per tile 4 Nails per Tile

BATTENS REQUIRED

Battens 5 linear metres per m² (plus wastage)

BATTEN SIZING Rafter Centres

(max)	(recommended)
450 mm	Slate: 25 x 50 mm / Woodshake: 30 x 50mm
600 mm	Slate: 25 x 50 mm / Woodshake: 30 x 50mm
900 mm	50 x 50 mm
1200 mm	50 x 50 mm
1500 mm	50 x 65 mm

Batten Size

Broken Bond

LAYING (recommended) All roof shapes

ACCESSORIES		
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37

39











Eaves Protection

Installation Equipment

Metrotile Slate 900 & Woodshake 450



Traditional slate looks with superior benefits

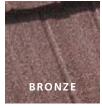
The Metrotile Slate profile is a product that offers incredible value and superior performance to traditional slate roof products in every way. Metrotile Slate offers the same great aesthetics as traditional slate roof tiles while offering superior benefits.

The deep lines pressed into each Aluzinc®* coated steel profile results in increased shadow definition, resulting in a tile that looks virtually indistinguishable from traditional slate, while simultaneously offering unmatched vandal and weather resistance. Available in two profiles: Slate .900 and Woodshake .450. Formed from high quality Drawing Grade 3 steel, like all Metrotile profiles, Metrotile Slate makes a perfect choice for a wide variety of roofing projects.



Slate and Woodshake are available in all colours















^{*} Aluzinc 185 or similar/equivalent protective layer ** Steel thickness according to EN10346

Metrotile ROMAN S	specifications
PITCH	
Minimum pitch	10°
Maximum pitch	90°
DIMENSIONS	
Size of tile - overall	1280 x 420 mm
Size of tile - cover	1210 x 370 mm
Gauge of Steel**	.450 mm
Linear cover width	1210 mm
Coverage	0.44 m ² 2.210 Tiles per m ²
WEIGHT	
Weight per m²	6.3 kg
Weight per tile	2.7 kg
FIXING	
Tile fixing	50 mm x 2.8 mm Coated Nail
	Hand nailing or power tool
Fixings per tile	4 Nails per Tile
BATTENS REQUIRED	
Battens REQUIRED	5 linear metres per m ²
_ 3	(plus wastage)
BATTEN SIZING	
Rafter Centres	Batten Size
(max)	(recommended)
450 mm	25 x 50 mm
600 mm	25 x 50 mm
900 mm	50 x 50 mm
1200 mm	50 x 50 mm
1500 mm	50 x 65 mm
LAYING (recommended)	
All roof shapes	Broken Bond
ACCESSORIES	
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Installation Equipment

Metrotile Roman





The classic contoured design

The elegant double roman tile is a truly classic design, now available with all of the benefits that only Metrotile lightweight steel roofing systems can offer. The beautiful contoured design of each Metrotile Roman tile will compliment any roofing project perfectly, offering an aesthetic that manages to be simultaneously classical and contemporary in style, while offering all of the quality and protection our many worldwide customers have come to expect.

Available in five colours pressed in the .450mm gauge** steel, Metrotile Roman delivers the perfect balance of traditional aesthetics and contemporary performance, while requiring virtually zero maintenance and offering unsurpassed protection from vandalism and the elements.

Pressed from high quality Drawing Grade 3 Aluzinc®* coated steel as all of our profiles, backed by a full selection of matching accessories and able to be fixed to a pitch as low as 10°, Metrotile Roman is a stand-out choice for any building project.













Metrotile SHINGLE Specifications

PITCH	
Minimum pitch	

Maximum pitch

15° 90°

DIMENSIONS

Size of tile - overall 1335 x 300 mm Size of tile - cover 1255 x 250 mm Gauge of Steel** .450 mm Linear cover width 1255 mm Coverage 0.313 m² 3.2 Tiles per m²

WEIGHT

Weight per m² (450) 6.1 kg Weight per tile (450) 1.9 kg

FIXING

Tile fixing 25 mm x 2.8 mm Coated Nail Hand nailing or power tool

Fixings per tile 4 Nails per Tile

BATTENS REQUIRED

Battens 5 linear metres per m² (plus wastage)

BATTEN SIZING

Rafter Centres (max)	Batten Size (recommended)
450 mm	25 x 50 mm
600 mm	25 x 50 mm
900 mm	50 x 50 mm
1200 mm	50 x 50 mm
1500 mm	50 x 65 mm

LAYING (recommended)

All roof shapes Interlocking

ACCESSORIES	
	See Page
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Metrotile Shingle

A versatile profile with the

appearance of a small riven slate

DESIGNED FOR BOTH **ROOFS** AND **VERTICAL WALLS**



Based on the classic North American timber shingle design, Metrotile Shingle is a simple and elegant solution for any roof project. Offering the rooftop quality and style for which Metrotile is renowned, Metrotile Shingle has been designed with a unique "hidden fix" system that also enables the product to double as an excellent vertical cladding solution. This is because the hidden-fix design leaves no nail exposed, preventing rainwater from corroding the nails, a common weakness of traditional vertical cladding.

Metrotile Shingle is available in five colours, and can be fixed from vertical, down to a minimum pitch of 15°. It is the ideal profile for those looking for a simple and elegant roofing or cladding solution.



















The beautiful island of Fair Isle is a renowned bird watching spot located off Scotland's north east coast and home to a stunning project that utilises the Metrotile Photovoltaic System

As Fair Isle is detached from the National Grid it has always been powered by a combination of generators and renewable resources, such as wind power. So when a new observatory building was touted, the implementation of sustainable and renewable energy resources was an essential part of the design process. The result was an observatory that utilised modern methods of construction:-32 individual pods would combine to form the building and were built off-site utilising Structural Insulated Panels (SIPs). The seperate pods were transported to Fair Isle by land and sea before being craned into position, creating an observatory that also provides accommodation for the Fair Isle bird watching community.

The Metrotile Photovoltaic System was chosen as the lightweight nature of the product enabled for swift transportation to site and a fast installation of the building, while the 100 Photovoltaic panels will power around the clock ventilation and lighting at the observatory.



Top: Work continues assembling the pre-constructed pods Centre: The site as seen looking towards the sea Bottom: Pods arriving by sea aboard the MCS Ailsa

Metrotile Photovoltaic System

Harness energy from natural light with the Metrotile Photovoltaic System



Metrotile have a very flexible portfolio of PV tiles and panels covering all the options open to the specifier or end user. We can provide the solution for all installations ranging from the individual home, large social housing projects through to schools, and commercial and industrial buildings of all shapes and sizes.

The Metrotile Photovoltaic System is simple and easy to fit. One tile is one installed Photovoltaic Panel. The tiles interlock and are screwed not nailed for easy removal should a cell be damaged. There are no special flashings or mounting systems and no other waterproofing or sealing materials are required.



POLYCRYSTALLINE PV CELLS



JUNCTION BOX, CABLES AND MULTIPOINT PLUG AND PLAY CONNECTORS



INTEGRATED PV AND TILE SYSTEM

Quality Assurance

The Metrotile Photovoltaic System has been tested in compliance with European and International Standards, including draft Dutch Building Standard, EU 'prescript' pre-standards and has been tested for wind uplift, code F-02-BRE 36-6 and water ingress tests according to procedures in CEN standard PrEN 15601:2006 by the British Research Establishment, UK.

The laminates are manufactured in an ISO 9001-2002 certified factory and produced in a TUV IEC 61212 & Safety class 2 approved process.

Alternative Metro Larger Panel Systems

In addition, Metrotile is able to supply an over-tile retrofit system with a complete flashing option for all Metrotile profiles. Larger panels are available in 70, 80, 115, 120 & 185 watt outputs and conform to the Low Carbon Building Programme Phase 2 (LCBP2E) and are manufactured by an MCS certified supplier.

We can provide a full design, installation and commissioning service or simply supply the system required including inverters to specification. A Technical Adviser visit can be arranged.

To find out more

Contact our sales team to discuss how our innovative Photovoltaic System can be part of your project Tel: + 44 (0)1249 658514 email: info@metrotile.co.uk



PHOTOVOLTAC TILES SOUTHPORT COLLEGE

From the moment it is pressed in our ISO14001 accredited factory in Belgium, until the end of it's long natural life and beyond, a Metrotile roof will always be a **green roof**



A State of the Art Factory for a State of the Art Product

Metrotile is committed to continuous improvement of manufacturing processes. Our plant based in Tongeren, Belgium, utilises the very latest technology including a wastewater recycling system that ensures each profile begins its life in the greenest possible way. Our factory has acquired both ISO9001 and ISO14001 certification for adhering to the strictest sustainability principles involved in producing high quality tiles and accessories.

To achieve the highly regarded ISO14001 certification the Metrotile factory had to undergo strict examinations in a number of key areas, including the use of on-site recycling systems to reduce fuel consumption and waste generation. The standards were met via the installation of new manufacturing equipment that required less energy to power and the implementation of new logistics to reduce internal transport, in addition to new health and safety risk reduction procedures.

All water used for manufacturing is captured and renewed using our highly advanced wastewater recycling system.

products are continuously improved

The Very Best Modern Materials

It is a well known fact that steel is one of the worlds most recycled materials and the steel used by Metrotile is no exception. We only use high quality Drawing Grade 3 steel, which already contains approximately 25% recycled materials. Once your Metrotile roof has given more than a lifetime of use and reaches the end of it's life, it is fully recyclable, unlike traditional roof products that are deposited at landfill.

In addition, we only use chemical free stone and an acrylic glaze that is free of toxins and therefore rainwater can be safely harvested from a Metrotile roof.

high quality with up to 25% recycled steel

Transport: Why Settle for More?

There are very few products that can claim to reduce transport costs and associated CO² emissions by up to an eighth in comparison to other similar materials, but by fitting a Metrotile roof, this is exactly what you get. For every eight lorries required to transport a concrete tile roof, you will need just one for a Metrotile roof.

This means significant transport and emission reductions, plus a swifter arrival on site, a faster installation and lower storage requirements prior to installation. Once the Metrotile roof is installed, the same reduced weight advantage places reduced stress on the supporting structure, increasing the life of the whole building while keeping whole life costs to a minimum for the entire building project.

Labour cost and the risks of injury are significantly reduced - both important factors for any project. In addition any leftover or waste tiles can be fully recycled - today a Metrotile, tomorrow your fridge!

less CO² in transport less labour less risk of injury





Home Energy Efficiency - the Metrotile Way

From both an economical and environmental standpoint, insulating your home has never been more important. A Metrotile roof, when used in conjunction with traditional loft space insulation, is just as dependable as traditional roof materials when it comes to keeping the heat in during the winter, helping you to keep your energy costs down.

During the summer months, a Metrotile roof will keep the temperature of your home down, despite external temperatures, as each Metrotile profile stores less heat than a thicker slate or clay tile. This enables heat to dissipate faster.

helping you to save energy all through the year

The Metrotile 900 **SECURE SOLUTION**

- ✓ Extra Strength
- **✓** Extra Resistance
- **✓** Extra Peace of Mind

Using the Metrotile .900 profiles - which are pressed from the same high grade Aluzinc®*coated steel as our .450 profiles - Metrotile can supply a full 'high security' vandal resistant specification for any application.

Metrotile .900 resists impact and brute force and will deny access to even the most determined assailant.

Available in the Metrotile Bond and Metrotile Slate profiles, Metrotile .900 is virtually indestructible and when used in conjunction with Metrotile Secure one way screw fittings Metrotile .900 simply cannot be removed. Additional steel straps can be fixed between battens to close potential access points through the roof build up with the addition of security mesh when required.

* Aluzinc 185 or similar/equivalent protective layer

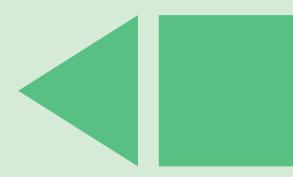
peace of mind

Extreme Weather Resistance

Sometimes the worst damage can be caused by the forces of nature. That is why Metrotile has been tested against the most extreme weather conditions including fire in California and cyclones in Japan! Furthermore, a Metrotile roof is resistant to cyclical freeze-thaw, snow and hailstones and is resistant to wind uplift of 192km/hour! No other roofing material can offer this kind of protection against the elements.

Our weather testing results and technical details are available as downloadable PDFs at www.metrotile.co.uk.

protection against the elements







Metrotile's roofing systems are highly versatile and suitable for a wide range of applications.

Our products can be found on roofs throughout over sixty countries worldwide, with many examples situated in the UK.

Architects, designers and specifiers have discovered the many benefits of Metrotile - for new build residential schemes such as Redrow Homes (featured here) to offices, schools, leisure facilities, hospitals, retail stores and a wide variety of refurbishment projects.

In the following pages you will find a small selection of Metrotile case study examples, showing our diverse range of profiles, colours and accessories used in different applications.

For more examples click on image gallery at www.metrotile.co.uk

Redrow Homes Debut Range

Redrow Homes are one of the leading affordable home developers in the UK. For their Debut Range, Redrow Homes were faced with the challenge of developing homes for first time buyers that utilised modern methods of construction while maintaining their innovative high standards. For the projects roofing materials, Redrow specified Metrotile.

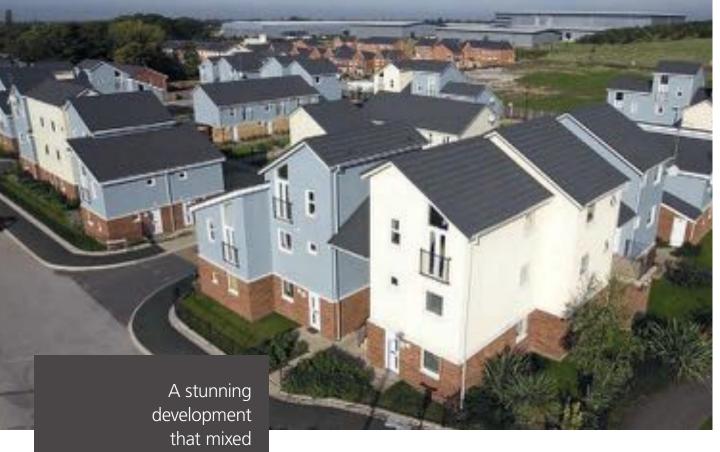












development that mixed aesthetic appeal and functionality with a swift and economical installation program

With the Debut Range, Redrow Homes set out detailed criteria for every aspect of the project, including the whole life value of materials in relation to construction and ongoing maintenance costs. With Metrotile's lightweight steel roofing systems, Redrow found a product that ticked every box, from low whole life costs to high aesthetic appeal.

As with any Metrotile project the installation process was highly economical, requiring low transport costs and delivery times, significantly helping Redrow Homes with their need to contruct the Debut Range as efficiently

as possible. The ability to keep transport costs and fixing speeds to a minimum was a prominent deciding factor for specifying Metrotile, while the lightweight profile design and fast installation method ensures labour costs are kept to a minimum.

The quick installation of a Metrotile roof also ensures that properties are secure and watertight in the fastest possible time, enabling tradesmen to have earlier internal access to each home. The end result is a stunning, swiftly installed development that sacrificed none of its aesthetic or functional appeal.







Private Homes Staffordshire

These recently refurbished 1930s properties in Cannock Chase, Staffordshire benefit from Metrotile Roman installations. A classic aesthetic style enhances the homes without straying from the original designs while offering greater benefits. This raises the standards of the homes to levels unobtainable with traditional roofing materials.

The result is residents enjoying the benefits of refreshed homes that not only look great, but also have greater insulation meaning they can keep their home fuel bills down, safe in the knowledge their new roofs are backed by an industry-leading forty year weatherproof guarantee.

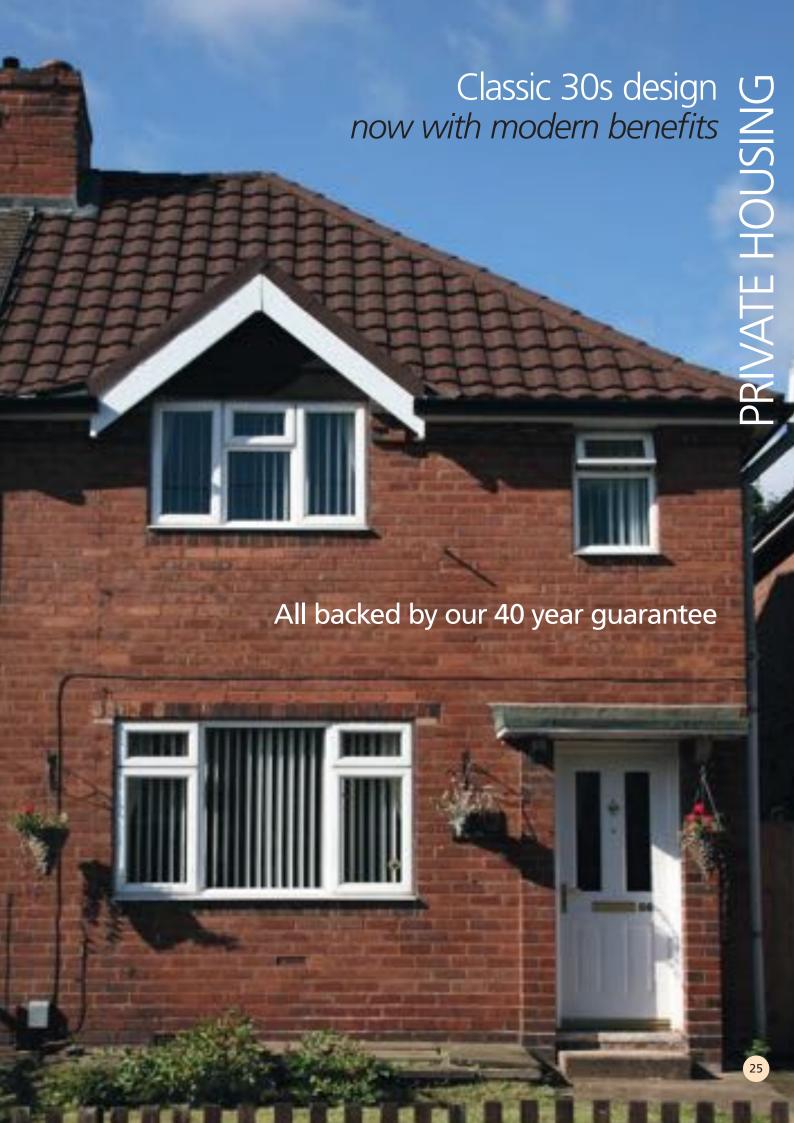














Gorse Hill School ▼

A requirement of Gorse Hill School's refurbishment was a roofing system that provided excellent vandal resistance, yet had the aesthetic appeal to match the concrete roof tiles that still adorned the roofs of some of the school buildings. The result is a stunning example of how a Metrotile roof can go head to head with traditional roof materials for aesthetic appeal.



Metrotile Roman Bronze was specified for this refurbishment







Fairford School

Located in the heart of the Cotswolds, Fairford School was refurbished in 2008 and required a roofing system that could offer unsurpassed durability complimenting the honey coloured brick walls. Metrotile's .900mm Slate profile in Bronze was specified, as it is the only system that could meet all of the project's demands. The school's new Metrotile Slate roof delivered on all counts including performance, durability, low whole-life cost and aesthetics.

As Fairford is situated in a rural setting, the aesthetics of the building's roof needed to compliment the natural surroundings. As Metrotile Slate is designed to replicate the surface details of a traditional slate roof, it blended in with the school's surroundings beautifully while meeting all of the planning requirements.

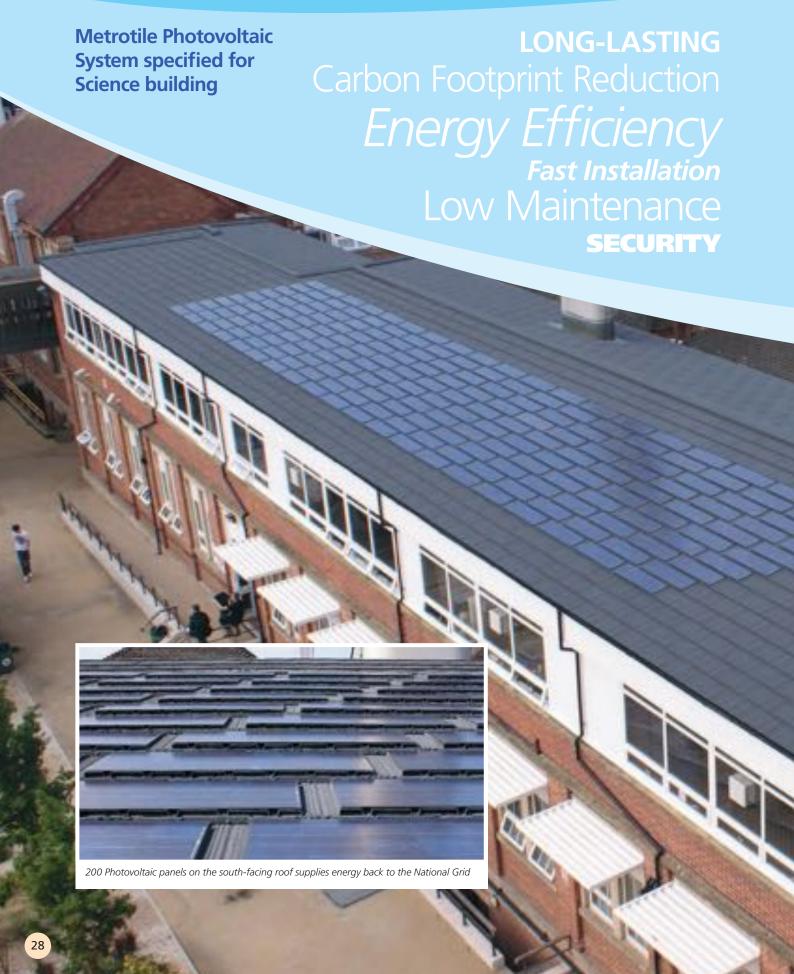
Vandal resistance is a key factor when planning any school project. To prevent vandalism to the roof and unwanted access to the building, the profiles were specified in .900mm thickness**, providing a totally robust roof solution that is resistant to both high levels of foot traffic and potential vandalism. When the materials were specified, the extra strength option was a factor that made Metrotile the only choice for the project.

The specification of Metrotile also enabled a swift installation. This enabled the school project to be completed quickly so that it would be open in time for the new school term, as the lighter nature of the tile, combined with a dry fix installation, enabled quick weather-proofing of the site so that other tradesman could carry out their work inside the building.

The school was assured further with the products unmatched 40 year Weatherproof Guarantee and the whole life costs savings that only a Metrotile lightweight steel roof can provide with virtually zero maintenance requirements and a low damage risk.

Metrotile roofing easily withstands the rigours of the British weather and proves an effective deterrent against vandalism

Southport College



Over the past decade, Southport College has maintained a program of roof maintenance, converting their flat roofs to pitched.

In 2010 they opted to convert the science block, but wanting to take advantage of what would become a south-facing roof slope, they chose modern materials to reduce their carbon footprint, save on energy costs and enjoy the benefits of a low maintenance, long-lasting solution.

Following several design meetings arranged by principal contractor Alpha steel roof tiles and a 10KW photovoltaic system that would be installed to feed energy back into the national grid.

Work began at the start of the school summer holidays, with the initial phases involving scaffolding and the installation of a steel frame that would convert the flat roof to a pitch. By the end of the summer break, the roof covering was complete and the PV system ready to go online; providing the college a durable, lightweight system that would offer a

number of environmental and cost benefits for decades to come.

Given the strict time frame for completion, Metrotile were considered the ideal supplier; the photovoltaic panel is integrated into the profile, making installation as easy, and quick, as installing one of our standard roof tiles. This allowed for efficient planning at the design stage and resulted in the project being completed for the start of the new school term.



Metrotile UK Ltd is proud to supply Lightweight Steel Roofing Systems for The Priory Federation of Academies, Lincoln. Initially three separate educational sites, LSST, Witham and City of Lincoln College (incorporating The Ruskin Academy) merged together to create the Priory Federation of Academies.

The combination of new build and refurbishment projects is one of the final government Building Schools for the Future programs and also the largest single project Metrotile UK has been involved with so far.

The Priory LSST

Once completed, the various roofs of the Priory Academies will feature over 50,000 Metrotile profiles in total. LSST was subjected to a two-phase development program, the first featuring 2.5 thousand Metrotile Bond profiles in Brindle. The remaining 4000 were installed during mid 2011, gracing the remaining buildings with Metrotile Bond in Red.

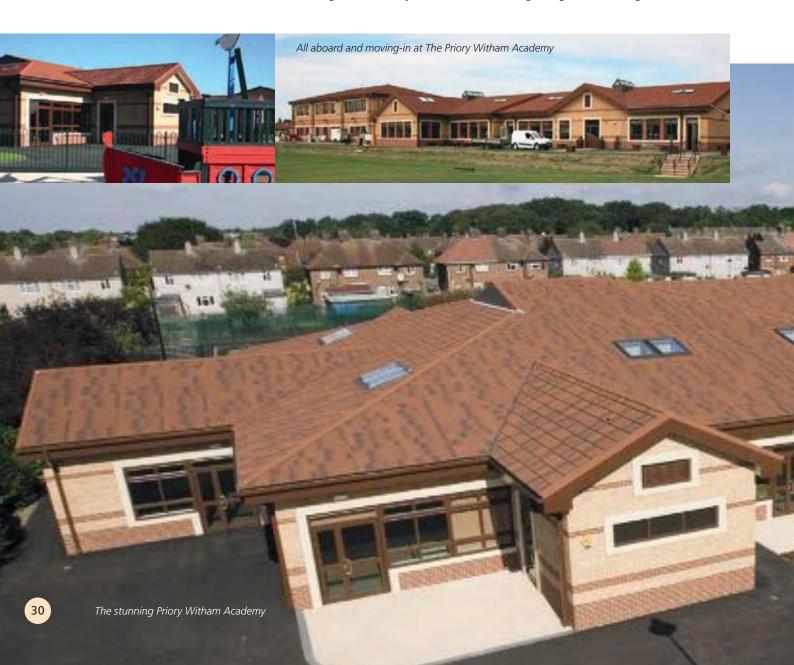
The Priory Witham Academy

Due to the time constraints imposed by undertaking such a large project during term time, Balfour Beatty and roofing contractors Dodds Roofing required a roofing material that offered unmatched durability and security, yet could be installed rapidly. For Dodds Roofing, there was only one choice. "Dodds Roofing has worked with Metrotile for many years. It's such a great system, not only is it easy and swift to install, but it also leaves a great all-round finish, with very impressive security benefits"

Graham Dodds Managing Director, Dodds Roofing

The Priory City of Lincoln College

Also a two-tier development, The City of Lincoln College reached completion during Summer 2011. The roof at the college consists of 8000m² (16,000 profiles approx.) of Metrotile Lightweight Steel Roofing.



Outstanding Roofs for Outstanding Schools

The Priory Federation of Academies, Lincoln



Morrisons Supermarket Yorkshire

Metrotile roofing systems are ideally matched to all roofing projects including refurbishments. The clean yet traditional styling of Metrotile profiles can make an established building look like it is new again.

A prime example is Morrisons supermarket, Leeds. This refurbishment project required highly durable materials for a demanding city centre site location. The roof needed to provide a high-performance replacement for 1400m² of fibre cement roofing tiles. As Metrotile roofing systems provide superior aesthetics, durability and a long lifespan, Metrotile Slate in Charcoal was selected and the stunning result can be seen here.

Once again, Metrotile's many benefits succeeded where traditional products could not. From the swift installation to the

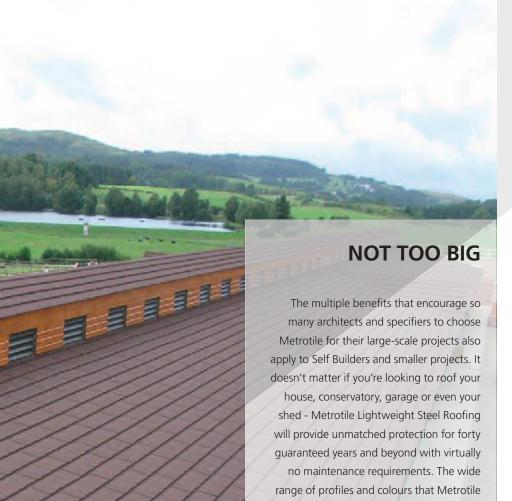
offered by the virtually zero maintenance design, Metrotile exceeded project requirements time and time again, even providing easy installation at areas with a minus 20 degree pitch, while the lower weight ensured significantly lower structural stress than the former fibre cement roof.

Refurbishment projects, by nature, have restricted access and storage space on site. As Metrotile required approximately seven times fewer deliveries and far less storage space than traditional roofing materials, this aided the swift installation process and allowed more room for other project materials. The reduced breakage and manual labour count also aided the project through a swift and successful building programme.









Metrotile doesn't just supply Lightweight
Steel Roofing Systems - everything your
roof top needs can be sourced directly from
Metrotile. From high-quality permeable
underlay to innovative products such as
the Sun Tunnel, Metrotile is your one
stop shop and is also an authorised
supplier of roof windows manufactured
by leading company Velux. And of course,
if you're looking to benefit from rooftopgenerated energy, Metrotile can supply
their integrated Photovoltaic system.

provides ensure your roof will blend into the

natural surroundings while providing benefits beyond the traditional roofing

products used by your neighbours.

Metrotile recommends using approved contractors to ensure the 40 year guarantee. If you decide to go the DIY route however, you can expect full support from Metrotile throughout your entire project. Please note that a self-installed roof's guarantee is subject to final approval from a Metrotile Representative.



NOT TOO SMALL

Versatile Metrotile

Houses Flats Chalets **Pavillions** Stables Lodges Conservatories Garden Offices Garages Outbuildings Garden Sheds Bandstands Extensions **Beach Huts** Shelters Etc, Etc, Etc

Lake Pochard Cotswold Water Park

Metrotile is the proud supplier of roofing systems and accessories for this exclusive development of 15 Scandinavian timber holiday lodges and Waterside Cafe, situated on the edge of a beautiful water park in the heart of the Cotswolds.







The elegant lines of the Metrotile Slate and Shingle profiles provide a stunning compliment to both the timber frames of the lodges and the scenic beauty of the natural surroundings, delivering outstanding looks and unparalleled performance.

Metrotile was selected as our products offer outstanding performance over time, with low maintenance requirements ensuring the tiles continue to reflect the beauty of their surroundings for many years to come. The lightweight, durable nature of a Metrotile roofing system is the perfect choice for any timber frame building.



Metrotile Slate and Shingle in Charcoal were selected for their environmental suitability





"Metrotile is proving a very popular choice with our customers.
Not only does it look fantastic but it can also be fitted on more or less any roof pitch and good ventilation can be incorporated into each stable"

Scotts of Thrapston

Scotts of Thrapston Stable Building Norfolk

Stabling specialists Scotts of Thrapston are renowned for their high-quality equestrian projects. When a new development of racing stables in Norfolk called for an elegant and high-performance roof solution to match the aesthetic quality of the design, Metrotile Bond in Charcoal was selected to complement the timber clad structure and to blend with local roofing materials.

The design benefits afforded by lightweight steel roofing proved important to the architects, allowing them to create a striking feature roof above the entrance to the stables. In terms of performance, the specification called for greater ventilation than would normally be required, together with high levels of security. As a result, roof ventilation units from the Metrotile range were incorporated into the roof design and the Metrotile Bond .900mm profile was specified - providing a highly secure roof enclosure, resistant to both foot traffic and potential attacks of vandalism.



New Roofs Cornish Style

Metrotile Lightweight Steel Roofing was chosen to rejuvenate 43 Cornish Units at Willow Crescent, Normanton. The project was operated by Wakefield and District Housing, who planned the refurbishments with renowned architects NPS.

The project required a roofing material that would not make the properties lose their character, yet offer benefits such as increased insulation and reduced rooftop weight so that increased pressure was not placed on each buildings foundations.

Metrotile Bond was chosen, with each resident able to choose the colour of their own rooftop. This managed to both retain the character of the Cornish Units, while also significantly improving Willow Crescents aesthetics. Each resident also made substantial savings with their heating bills thanks to each homes boosted insulation.

Metrotile worked very closely with all involved. The roofs were installed by contractors Ultegra Services and their Business Development Manager, Glen Leatherbarrow states:

"Metrotile is a modern company with old fashioned customer service values. Unlike many other companies, they go one step beyond to help. They work with you instead of for you and their after sales service is second to none"

The homes were built post World War II as temporary housing with a life expectancy of around forty years. With Metrotile installed as the roofs and mansards, the properties can enjoy another forty years bolstered by Metrotile's unique 40 year weatherproof guarantee.

LOOKING FOR CLADDING PRODUCTS?Also see **Metrotile Shingle** on page 14/15



Old roofs before installation



Complex ridge detailing using Metrotile barges & end cap accessories

A refurbished roof in Bronze Bond



Why the New Charter Housing Trust Group choose Metrotile

New Charter Housing Trust is one of the UK's premier Social Landlords, responsible for a stock of over 18,000 homes in the Manchester and Cheshire areas.

New Charter Housing has specified Metrotile Lightweight Steel Roofing Systems on both refurbishment and new build projects and has also put the product forward for upcoming projects. This is because Metrotile is so versatile and durable that it is proving to be the solution to many project problems, such as the need for low weight on supporting structures, flat to pitch conversions or just the need for a swift installation.

Pendle House, a home for the elderly located in Denton, Greater Manchester, required a roofing solution to overcome large spans between the roof trusses and replace a felt roof. Due to the span of each Metrotile Profile, the roof replacement was swift, secure, aesthetically pleasing and prevented the need to replace the roof trusses. The success of the Pendle House installation led New Charter Housing Trust to choose Metrotile for further projects, including the Bushyfield estate in Hyde which consists of prefab BiSF homes. The requirements for this project included rooftop weight considerations due to the nature of the supporting structure. Once again, Lightweight Steel Roofing trumped the old guard traditional products, reinvigorating the BiSF rooftops with a modern material.

New Charter Housing Trust initially specified Metrotile as they required what they believed to be a 'niche' product. What they found was both a highly durable rooftop solution and the ideal product for many projects to come. New Charter Housing's faith in Metrotile is reflected in the choice of roofing material for their area office in Hyde (pictured above).





"The finished rooftops looked like a traditional tiled roof and completely transformed the area"

Paul Hadfield, Senior Quanity Surveyor and Project Manager, NCHTG, talking about their refurbished homes









Housing Association Cottages The Orkney Islands

This project in the Orkney Islands called upon a superior roofing product that could offer superior protection against the island's extreme weather conditions, while ensuring the 32 new timber frame homes utilised a durable roofing product that would blend into the local environment.

Metrotile Slate in Charcoal was specified, as the riven appearance matched that of local surrounding buildings while the Aluzinc® coating provided unmatched corrosion resistance within the wind and rain prone marine environment.

Local Authority Bungalows West Lothian



The refurbishment of these single storey buildings at Elm Grove in Blackburn, West Lothian required an essential installation of Metrotile lightweight

Roofing prior to refurbishment

roofing systems, as the buildings are unable to take the weight of traditional roofing products such as slate or concrete. During the project, the building's roofs were stripped of their metal roof sheets and new trusses were applied, before renewing the exterior of the homes with Metrotile Bond in Brindle.

Cornish Units Gwent

These refurbished Cornish Units in Gwent benefit from using Metrotile Shingle as a vertical cladding solution. Metrotile Shingle offers unsurpassed vandal proofing while the zero maintenance design ensures low whole life costs and rejuvenates the building's facade with a stunning modern aesthetic. In addition, the Metrotile Shingle profile's hidden fix system protects the nails holding it in place from the elements, removing the problem of nail corrosion suffered by traditional vertical cladding products.



BISF Houses Yorkshire

Once again, the use of Metrotile refreshes the look of local authority housing, the refurbished home contrasting against the BISF property to the right that is still awaiting a new roof. Metrotile Slate in Charcoal was specified for this project, the classic look of the profile enlivening the homes while complimenting the natural surroundings.





Local Authority Flats West Lothian

West Lothian Local Authority was so impressed with Metrotile's superior quality and longer guarantee period that they switched over from using another lightweight steel roofing brand. They specified Metrotile Bond in Brindle for the roof of this block of flats at Beechwood, where a flat to pitch roof conversion was necessary to both reinvigorate the look of the building while assisting the property to 'Better Homes' standards.

Housing Association Flats Gloucestershire

When Severn Vale Housing Association planned a 4000m² roof refurbishment of three blocks of flats in Shurdington near Cheltenham, they needed a roofing solution to replace the worn out concrete tiles that could be found on the buildings.

The decision to specify Metrotile Bond .450mm in Bronze was reached, as all of the roof material required could be obtained from a single source, while the lightweight material enabled a fast on site installation that quickly turned the worn out roof of

old into a distant memory. The new red roofs also enhanced the building's looks, making them more attractive and vibrant without damaging the rapport with the surrounding locations.

The roof installation will offer shelter and greater security to the building's inhabitants for many years to come, while requiring zero maintenance, placing significantly reduced strain on the supporting structure and keeping whole life costs down to an absolute minimum.



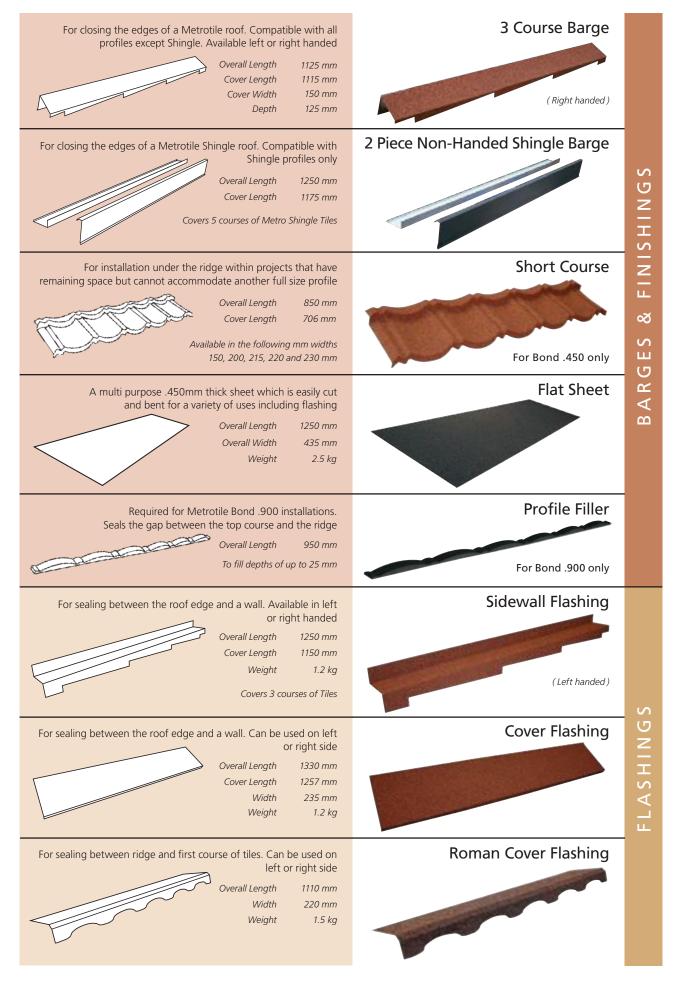
Metrotile Accessories

Metrotile supplies a full range of bespoke accessories that fully integrate with our lightweight steel roofing systems. Each product is manufactured to the same high standards as our tile profiles.

If you require any further information regarding the application of our accessories, a free quotation or you wish to place an order, contact us via phone: **01249 658514**, Email: **sales@metrotile.co.uk** or log on to **www.metrotile.co.uk** and complete an online enquiry form.



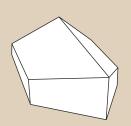






For closing the hips on a hipped roof

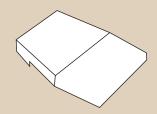
Cover Length 255 mm
Cover Width 25 mm



Ridge End Cap

For sealing the ridge ends on a duo pitch roof

Cover Length 215 mm
Cover Width 225 mm

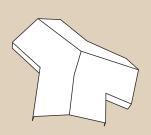




For joining at a ridge / hip junction

Overall Depth 440 mm

Cover Width 475 mm

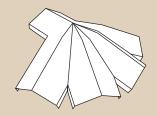




For joining at a hip / ridge junction on an Edwardian conservatory

Overall Length 680 mm

Cover Width 790 mm





Enables ventilation to be incorporated into Metrotile roofing systems.

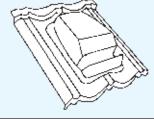
Compatible with Bond profiles

Overall Depth 420 mm

Overall Width 430 mm

Weight 1.2 kg

Free Ventilation Area $7,500 \text{ mm}^2$





Enables ventilation to be incorporated into Metrotile roofing systems.

Compatible with Slate profiles

Compatible with Slate profiles

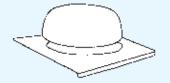
Overall Depth 415 mm

Overall Width 480 mm

Weight 1.3 kg

Free Ventilation Area $7,500 \text{ mm}^2$

Enables ventilation to be incorporated into Metrotile roofing systems Compatible with Shingle profiles



Overall Depth 250 mm 225 mm Cover Width 9,000 mm² Air Flow



Enables ventilation to be incorporated into Metrotile roofing systems

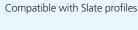


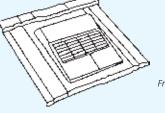
Overall Length 420 mm Overall Width 430 mm Weight 1.2 kg

10,000 mm²



Enables ventilation to be incorporated into Metrotile roofing systems



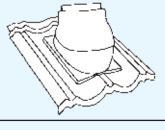


Overall Length 415 mm Overall Width 480 mm Weight 1.5 kg Free Ventilation Area 10,000 mm²



Enables ventilation to be incorporated into Metrotile roofing systems

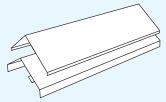
Compatible with Bond profiles



Overall Length 400 mm Overall Width 410 mm Weight 1.1 kg



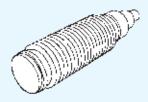
For installation into the ridge of a Metrotile roof to enable ventilation for gas and loft fumes



Overall Length 630 mm Overall Width 250 mm Weight 4.3 kg



For use with all Metrotile vent systems. (Not compatible with the Metrotile Hi Flow Vent System)



Overall Length 570 mm 100 mm Diameter





For use in Metrotile roofing systems where increased ventilation is required. Compatible with Bond profiles.

Overall Depth 420 mm

Overall Width 430 mm

Weight 1.2 kg

Free Ventilation Area 20,000 mm²

Purchase separately or as part of the HI Flow Vent Kit





For use in Metrotile roofing systems where increased ventilation is required. Compatible with Slate profiles profiles

Overall Depth 420 mm

Overall Width 430 mm

Weight 1.2 kg

Free Ventilation Area 20,000 mm²

Purchase separately or as part of the HI Flow Vent Kit



Flexible Adaptor - Hi Flow



For use with Metrotile Hi Flow Bond and Hi Flow Slate ventilation systems

Length Per Metre
Diameter 160 mm

Purchase separately or as part of the HI Flow Vent Kit



Ceiling Grill



For use with Metrotile Hi Flow Bond and Hi Flow Slate ventilation systems

Diameter 160 mm

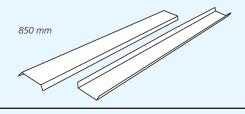
Purchase separately or as part of the Hi Flow Vent Kit





Enables ventilation at the ridge of a Metrotile roof while simultaneously protecting batten from weather damage

Length





Enables ventilation at the hips and ridges of a Metrotile roof system

Length 600 i

600 mm

VENTILATION



Overall Length

1 metre



Prevents ventilation blockage often caused by insulation.

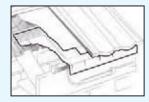
Designed to be sited at 400 mm, 450 mm and 600 mm

> Overall Length 6 metres

Continuous Rafter Tray



Prevents felt from sagging and keeps ventilation path clear



Overall Length 600 mm Overall Width 400 mm

Eaves Fascia Tray



Used to fill the profiles at top course, ridge, hips and valleys. For installations where profiles cannot be bent

Metrotile Shingle

9 mm x 25 mm x 4 metres

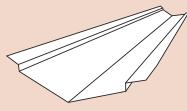
Metrotile .900

VALLEY SEALER 32 mm x 50 mm x 3 metres HIP SEALER 12 mm x 30 mm x 4 metres

Expanding Foam

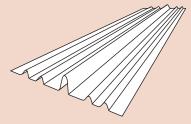


For sealing and lining valleys on a Metrotile roof system



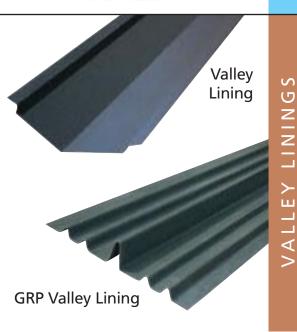
Overall Length 2200 mm Overall Width 200 mm

The GRP Valley Lining is designed with a higher centre to enable closer profile coverage when a more discreet valley is required



Overall Length Overall Width 360 mm

3 metres



WINDOWS

Photovoltaic Tile



Generate valuable energy for your home with our innovative new Photovoltaic System







POLYCRYSTALLINE PV CELLS

Sun Tunnel



Brighten up rooms in your home with this natural light system. Integrates perfectly with Metrotile profiles

Cover Width 370 mm Cover Length 370 mm Tunnel diameter 243 mm Roof pitch 15° - 60°







Bringing light to life

A full range of Velux roof windows and bespoke accessories are available from Metrotile. Please contact us for further details and advice



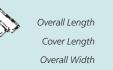






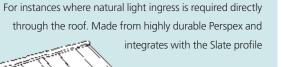
CLEAR TILES

For instances where natural light ingress is required directly throughthe roof. Made from highly durable Perspex and integrates with the Bond profile





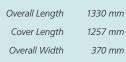
Clear Tile Slate



1330 mm

1257 mm

370 mm

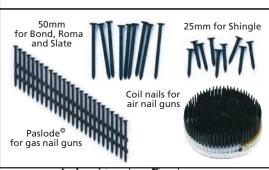




High quality nails are available for all Metrotile application types, including Paslode® and Coil types suitable for nail guns

SCREWS

35 mm Farmer Screws are available to match your chosen roof system colour



Recommended for cutting Metrotile Profiles. Blade is made from heavy duty spring steel and legs can be removed for easy transport

Floor Space 3700 mm x 1000 mm

Length 1100 mm

Weight 29 kg

FOR SALE OR HIRE



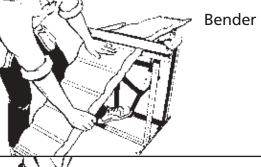
Recommended for the bending of Metrotile Profiles ${\sf Made\ from\ high\ quality\ steel}$

Floor Space 490 mm x 460 mm

Height 530 mm

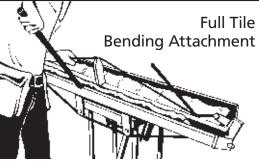
Weight 25 kg

FOR SALE OR HIRE



Fastened to the Metrotile Bender with 12.5 mm bolts and wing nuts

Length 1600 mm Weight 26 kg



FOR SALE OR HIRE





The installation of a Metrotile Lightweight Steel Roofing system is a swift, economical and ecological process made possible by the product's lightweight design and use of modern construction materials.

Whether you're a self-builder, looking to install the roof on your own project or you're looking for an approved contractor to carry out the work, Metrotile is there to help during every step of the installation process and beyond.

The lightweight design of the Metrotile product is a plus factor for any installation. It ensures reduced transport costs and faster on-site deliveries, while the durable profile design enables the profiles to be moved around the site with virtually zero breakages, keeping waste to a minimum while ensuring the order quantities are accurately assessed.

Installation on site may be carried out with the use of scaffolding, or via Cherry Picker if space is at a premium. Either way, the large Metrotile profile sheets are simply locked into place and nailed to the roof battens, utilising a dry-fix cross nail system that provides unsurpassed security and continues to keep on-site waste to a minimum.

Tiles may be shaped, cut or formed to suit each individual roof design and can easily accommodate accessories such as roof windows, vents, solar tubes and the Metrotile Photovoltaic System, as well as simple or complex hip and valley arrangements. For more details about the complete range of Metrotile Accessories, see pages 44 to 51 of this brochure.

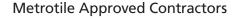
A dry-fix system has a number of advantages. It helps the speed of installation and reduces the need for ancillary materials to be ordered, stored and disposed of and it also ensures that installation is far less weather-dependant, helping to add certainty to the construction programme and ensuring a more efficient flow of internal trades.

A detailed step-by-step installation guide, together with good site practice and specific information for each Metrotile profile is available for download from our website.

Please visit

www.metrotile.co.uk

for further details



If your project requires the use of contractors, Metrotile will put you in touch with an approved contractor in your area. Please note that we are only able to **guarantee roofing systems installed by an approved contractor.**

Self Builder Installation

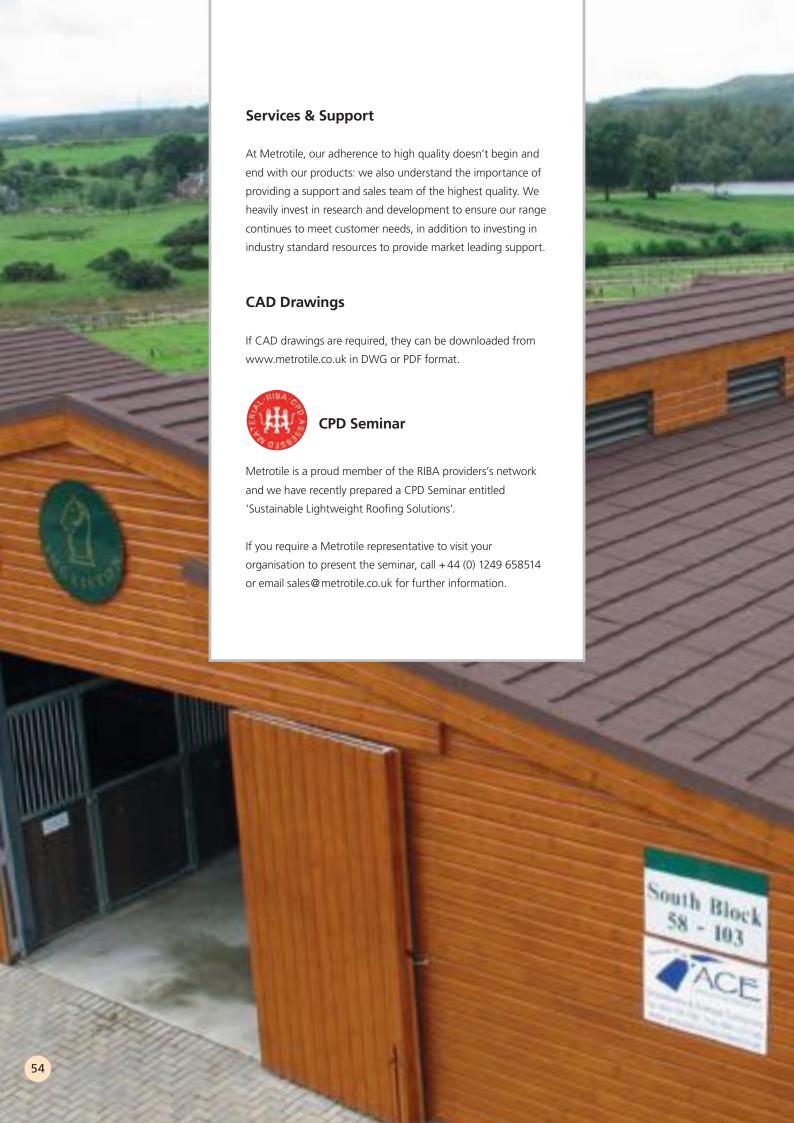
We can also offer our guarantee to Metrotile roof systems installed by selfbuilders, but a representative will need to check the installation to validate the guarantee. Metrotile offers full support to DIY installations throughout the entire process and step-by-step installation guides are available by post, or via download at www.metrotile.co.uk.



Virtually zero breakages on site

List of Approved UK and Ireland Contractors Quick and easy to install with step-by-step guides available Unique dry-fix system ensures savings in time and materials and is not weather dependant













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