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June 2011

DESIGN

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QUALITY

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SERVICE

Manufacturers of Cladding Products for the Construction Industry

PRODUCT RANGE

Steadmans are UK specialists in galvanised roofing sections, composite wall & roof sheets, metal cladding, roofing products and fibre cement sheeting.

Established in 1911 when George Steadman set up business as Caldbeck's blacksmith, our family firm has grown to become a major supplier to the construction and agricultural industries.

In 1989, having out-grown our Caldbeck site, we designed and built a new facility at Warnell which now covers 50,000m² and accommodates the extensive range of equipment and machinery required to manufacture our roofing and cladding products.



Warnell facility, Carlisle



Livingston facility, Scotland

DESIGN

Our continual programme of product development and investment ensures we continue to deliver product systems with the performance and aesthetics our customers demand.



QUALITY

State of the art, computer-controlled manufacturing enables us to deliver high quality products and complete systems to exact specification within tight deadlines and at competitive prices.



SERVICE

In addition to our standard range of products and systems we can produce an almost unlimited range of bespoke items and deliver them, in a single consignment with our dedicated fleet.



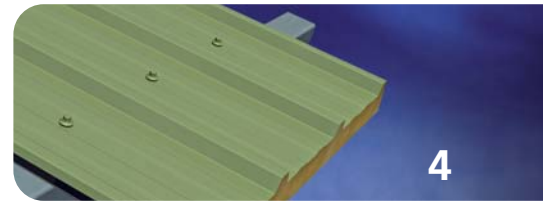
Whatever the nature of your project, Steadmans have the product solutions, the experience, the facilities and the expertise essential to its success.

PRODUCT RANGE

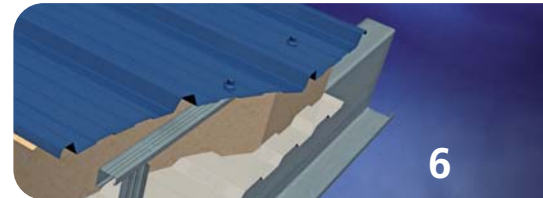
The tactile nature, character and precise lines of our products impart strength, weatherproofing, durability and prestige to any building.

In this brochure you will find information and images on our thermally efficient panel system, traditional single and twin skin systems, lightweight, slate effect roofing systems, structural cold roll purlins and co-ordinating rails and beams. We also manufacture flashings and gutter systems to compliment our roof and wall products and supply other associated products including fibre cement sheet roofing, grain-walling, louvers, ventilated sheets, a condensation control fleece and security doors.

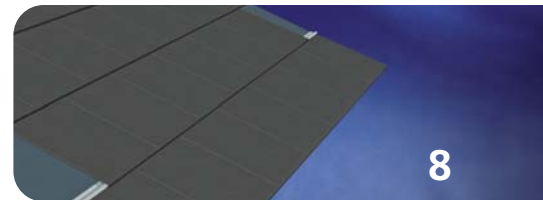
Steadmans is the complete one stop shop for metal roofing and cladding.



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AS35 INSULATED ROOF & WALL PANEL SYSTEM

Designed to form roofs - down to a 4° pitch - and walls.

THE AS35 PANEL

AS35 insulated panels consist of a core of polyisocyanurate (PIR) insulation sandwiched between a deep, AS35 profile external weather sheet and an internal, shallower, AS20 profile liner.

PIR insulation is used in the AS35 panels because it has a low thermal conductivity: for a given U-value panels with PIR cores will be thinner than those with mineral wool or EPS cores. PIR can withstand higher temperatures than PUR and will limit the spread of flame.



AS35 panels have a cover width of 1m and are available in standard lengths between 1.8m and 12m in thicknesses of 40, 60, 80 and 100mm. Other lengths are available to special order.

The standard external weather sheet is 0.5mm thick and the internal liner 0.4mm thick: other thickness can be supplied to special order.

The steel is either hot-dip galvanised to BS EN 10346:2009 or Aluzinc coated, then finished in one of our colour coatings.

Steadmans offer a selection of 9 different coating options in a range of 33 different colours. Please see our Colour Selector brochure or website for more details.

AS35 panels have a predicted service life of 40 years. Time to first maintenance depends upon the finish and the environmental conditions but can be as high as 30 years.

AS35 roof and wall panels are manufactured in a process certified to ISO 9001:2008. They have also been tested by the Loss Prevention Certification Board and comply with the requirements of LPS 1181:2003. Part 1: Issue 1.



THE AS35 SYSTEM

The AS35 system includes a comprehensive range of matching rooflights, guttering, flashings and sealants.

Our range of factory assembled in-plane rooflights include Energysaver triple skin rooflights and Double skin rooflights - both designed to meet project requirements for light transmission, durability, non-fragility rating, fire resistance and thermal performance.

Gutters and downpipes are available in a variety of materials in matching or contrasting finishes. Complete gutter systems and accessories can be manufactured to specification, up to 10m long and 3mm thick.

Flashings for the AS35 system are available in plastisol leathergrain, polyester, Nova, Scintilla, galvanised, or PVDF finishes in traditional profiles, or customer shape requirements.

WARRANTY

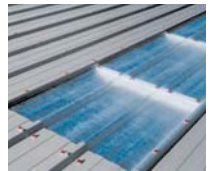
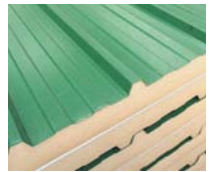
Steadmans Warrant that the AS35 Insulated Panels will perform their intended function (thermal, fire and structural performance, interstitial condensation resistance and product durability), and will not need further additional protective treatments other than those specified for the period of the Warranty, for up to 25 years.

In addition, Steadmans provide a Warranty to cover the performance of the 200LG external coating for a period of up to 30 years.

Warranties are project-specific and are supplied upon receipt of a completed application.

AS35 PANEL SYSTEM

The deep profile of the AS35 composite panel brings to any roof or wall surface a clean, architectural shadowing which complements the panel's precise lines.



1 & 2 Twoey Toys, Wigton.
Merlin Grey panels,
Goosewing Grey flashings
& gutters.

3 & 5 Howie Forest Products,
Dalbeattie.
Goosewing Grey roof panels
and flashings, Olive Green
wall panels and flashings.

4 Seabait Ltd, Lynemouth.
Sargasso Blue panels,
flashings and gutters.

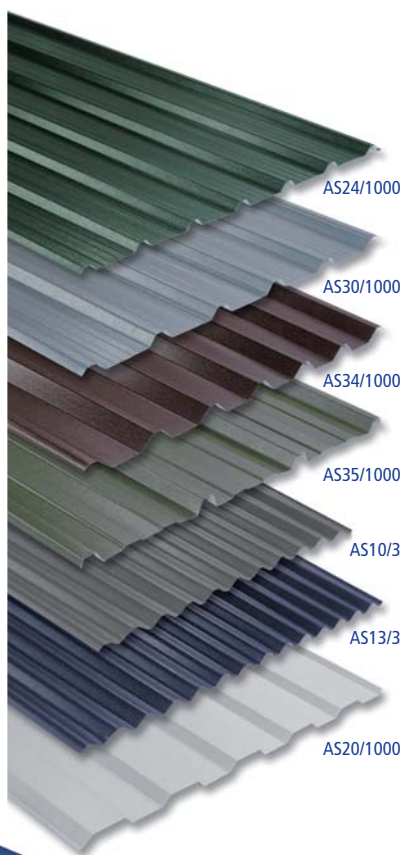


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SINGLE AND TWIN SKIN ROOF & WALL SYSTEMS

Designed to form roofs - down to a 4° pitch (6° if rooflights are required) - and walls.

THE PROFILES



Steadmans' single and twin skin roof & wall systems consist of coated steel weather sheets in three standard thicknesses and six different profiles. A zinc galvanised coated version for farm buildings - Agri-steel™ - is also available - see separate brochure.

Profiled sheets except AS10/3 and AS13/3 have a cover width of 1000mm and all are available in any length between 1000mm and 12000mm (1-12 metres) as standard. Other lengths are available to special order. The standard external profiles are available in 0.5mm and 0.7mm thicknesses; the AS20 profile liner sheet is available in 0.4mm and 0.7mm thicknesses.

The steel is either hot-dip galvanised to BS EN 10346:2009 or Aluzinc coated, then finished in one of our colour coatings. Steadmans offer a selection of 9 different coating options in a range of 33 different colours. Please see our Colour Selector brochure or website for more details.

Profiles have a predicted service life of 40 years. Time to first maintenance depends upon the finish and the environmental conditions but can be as high as 30 years.

Profiles are manufactured in a process certified to ISO 9001:2008.



THE SYSTEMS

The single and twin skin systems are backed up with a comprehensive range of matching rooflights, guttering, flashings and sealants.

Our range of double skin and triple skin, site assembled, in-plane rooflights match the dimensions of all our profiles. All our rooflights are designed to meet your project requirements for light transmission, durability, non-fragility rating, fire resistance and thermal performance.

Gutters and downpipes are available in a variety of materials in matching or contrasting finishes. Complete gutter systems and accessories can be manufactured to specification, up to 10m long and 3mm thick.

Flashings are available in plastisol leathergrain, polyester, Nova, Scintilla, galvanised, or PVDF finishes in traditional profiles, or customer shape requirements.

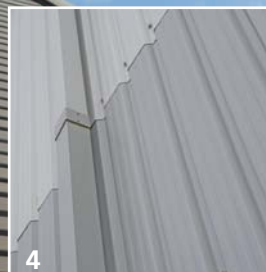
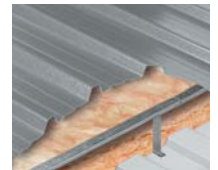
WARRANTY

Steadmans provide a Warranty to cover the performance of the 200LG external coating for a period of up to 30 years when fitted fully in accordance with Steadmans recommendations and details.

Steadmans 200LG coating can be regarded as a maintenance free product provided the building is compliant with Steadmans best practice in design and construction.

SINGLE & TWIN SKIN SYSTEMS

A range of subtle profiles which bring distinctive character to any cladding or roofing project.



- 1 Manufacturing facility, Livingston.
Grey Mist roof and walls, Baltic Blue walls, flashings & gutters.
- 2 & 4 Premier Waste, Washington.
Goosewing Grey roof, AS30/1000 Goosewing Grey and Merlin Grey walls and flashings.
- 3 Farm building, Scotland.
AS30/1000 Olive Green roof*, AS24/1000 Ventair wall sheet.
- 5 Warehouse, Scotland.
Merlin Grey roof* and walls
- 6 Manufacturing facility, Carlisle.
AS30/1000 Vandyke Brown roof and walls
* with Drip Drainstop condensation control fleece



META-SLATE - SLATE EFFECT ROOFING SYSTEMS

Designed to form roofs down to a 15° pitch.

Meta-Slate has been designed and developed by Steadmans to provide a roofing sheet that has the appearance of natural slate yet has all the advantages of a lightweight, strong building material.

Meta-Slate is extremely easy to fit thanks to the beautifully simple, secret fix Steadfast locking system. The system weighs only 6kg/m², which means it requires less substructure than a conventional slate roof.

THE META-SLATE SYSTEM

The Meta-Slate System comprises sheets up to 6 metres long and a full range of accessories, including starter clips, joint pieces, ridge, hip and barge flashings, end closures, matching or contrasting metal gutters and downpipes, plastic gutters and downpipes, sealants and fixings.

The system can be fitted to roofs with a pitch of 15° & above with 800mm fixing centres.

The Meta-Slate System is ideal for use in environmentally sensitive locations where box profile sheeting may not be acceptable to local authority planning departments.

THE META-SLATE^{PLUS} SYSTEM

The Meta-Slate^{Plus} system is a combination of the Meta-Slate, slate effect roofing sheet fixed to the AS35 insulated roofing panel.

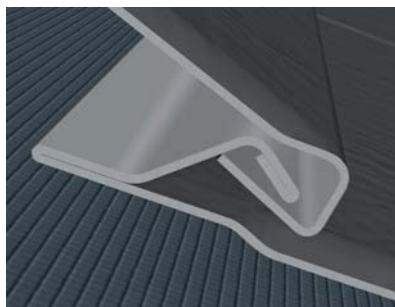
Meta-Slate^{Plus} combines all the benefits of the standard Meta-Slate roofing system with the excellent thermal performance of the AS35 panel.

Meta-Slate^{Plus} will provide a strong, rigid, slate effect roof with good thermal performance down to a 10° pitch.

The Meta-Slate^{Plus} system offers rapid coverage and swift completion of a weatherproof building envelope to give a high performance building.

Steadfast locking system

The Steadfast locking system is a unique secret fixing system, which, once locked into position, provides a weather tight joint whilst also allowing repositioning.

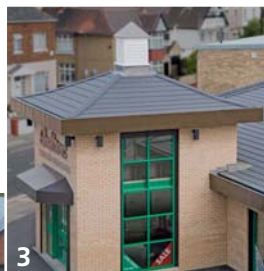


Meta-Slate incorporates a slate blue matt nova paint finish to the outer surface which is specially embossed with a regular slate pattern to give the appearance of natural slate.



META-SLATE SYSTEMS

Meta-Slate and Meta-SlatePlus combine the steady rhythm of a slate roof with the weather resistance of steel roofing panels.



- 1 Carnwood Park, Leeds.
Slate Blue Meta-SlatePlus system and Slate Blue flashings and trimline gutters.
- 2 Haarland & Wolff, Belfast.
Slate Blue Meta-Slate roof, Slate Blue flashings and gutters.
- 3 Shottons, Hartlepool.
Slate Blue Meta-Slate roof, Slate Blue flashings and gutters.
- 4 Telford House, Riverside View, Carlisle.
Slate Blue Meta-SlatePlus system and AS35/1000 roof, Slate Blue flashings and trimline gutters.
- 5 Europe Park, Cockermouth.
Slate Blue Meta-Slate roof, Slate Blue flashings and gutters.



PURLINS, RAILS AND EAVES BEAMS

Steadmans Purlins and Rails are designed as a comprehensive range of traditional Zed sections for supporting a wide range of roofing and cladding. This well proven system offers a high degree of flexibility of erection together with structural efficiency.

The wide range of solutions available, combined with the simplicity of cleat details and complete compatibility between Zed and Cee sections sizes, make Steadman Purlins and Rails ideal for complicated roof designs.

Customer designed Zed, Cee and Eaves Beam sections can be manufactured along with individual designs for special applications. Our extensive stock, combined with our capacity to cut, fold and punch the materials means we can offer solutions to almost all situations.

Steadmans cold roll products are formed from hot dipped galvanised steel coil to BS EN 10346:2009 and the sections are designed to BS EN 1993-1 and BS EN 1993-3 using a combination of analysis carried out by the Steel Construction Institute (SCI) and component testing carried out at CERAM and Corus RD&T. The performance of the designs is confirmed by full-scale testing.

ZED PURLIN SYSTEMS

Steadmans supply four structural systems:

- the Sleeved System
- the Double-Span Sleeved System
- the Heavy End-Bay System
- the Butted System

These systems allow for a flexible and efficient range of solutions to roofing supports for a wide variety of cladding types.

EAVES BEAMS

Three depths of eaves beam are available in a range of thicknesses.

Indented sections with a maximum length of 15m are available in 200mm and 240mm depth.

A 300mm deep Cee section eaves beam is available up to a span of 12.5m to complement the 300 series of purlin sections. Eaves beams are usually single spanning but they may be supplied as double-spanning.

ZED & CEE SHEETING RAILS

Sheeting rails may be selected as either Zed profile or Cee profile sections. These are formed from the same coils and are each available in the same depth and thickness range. Cees may be substituted for Zeds at window and door framing and at composite cladding joints, etc.

The two types of section can be mixed on the same rail line though it is not possible to locate sleeves on the junction between Zeds and Cees: therefore the load capacity of each system should be assessed independently.

Steadmans offer three different Zed & Cee Sheeting Rails systems:

- the Sleeved System
- the Double-Span Sleeved System
- the Butted System
- the Heavy End Bay System

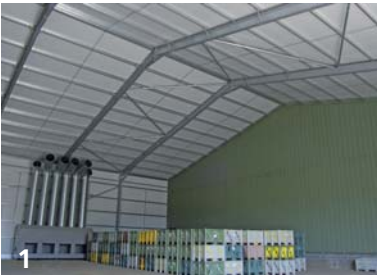
Steadmans Cee sections can also be used as secondary beams for mezzanine floors.

To aid the specifier in the design and specification of structural steelwork and provide methods of load assessment, Steadmans have developed a design disk - available upon request. In addition, design guidance, load tables and standard detailing sheets are available in PDF format from our web site.



PURLINS, RAILS & EAVES BEAMS

Accurately formed structural components
which provide an ideal framework
for Steadmans' roofing
and cladding systems.



- 1 Food storage facility, Scotland.
Zed purlins and sheeting rails and accessories.
- 2 & 5 Coatbridge High School, Lanarkshire.
Zed purlins and sheeting rails supporting a twin skin curved roof.
- 3 Madjeski Stadium, Reading.
Various galvanised sections.
- 4 Recycling Plant, Scotland.
Zed purlins sleeved system.



OTHER PRODUCTS

In addition to our structural steelwork and complete roofing and cladding systems, Steadmans also supply an extensive range of complementary products and accessories which perfectly integrate into the systems already covered in the brochure.

AGRICULTURAL PRODUCTS

Steadmans supply a range of products which are well suited for use in agricultural buildings. These are:

- Fibre cement sheet roofing
- Grain-Walling
- Agri-Steel™
- Ventair louvered wall cladding
- Drain Dripstop condensation control fleece

Fibre cement sheet roofing

Eternit fibre cement profiled sheeting from Steadmans is an environmentally friendly, asbestos-free, virtually maintenance free, reinforced fibre cement sheet available in a range of painted colours.

Our fibre cement profiled sheeting is recognised as a superior alternative to asbestos cement roofing.

Grain-Walling

Our grain wall panels are designed to form load bearing walls for the bulk storage of crops such as grain, wheat and rape.

The panels are manufactured from hot dipped galvanised steel coil to BS EN 10326:2004 Fe E390G -Z275 and are designed for easy site assembly with a minimum of support steelwork.

Agri-Steel™

Steadmans Agri-steel system consists of coated steel sheets rolled to five different profiles for single skin roofing (down to 4° pitch) and walls. Agri-steel has been designed for un-insulated agricultural buildings.

Ventair louvered wall cladding

The Steadman Ventair wall cladding sheet has been developed to meet the agricultural industry's need for really effective ventilation of animal sheds.

With louvers on both sides of the sheet the airflow has been increased to generate an even greater movement of fresh air.

Drain Dripstop

Drain Dripstop is a condensation control fleece designed to reduce risk of damage from dripping or running condensate on single-skin metal roofs.

The combination of the Ventair wall cladding sheet with the absorbent qualities of Drain Dripstop condensation control fleece or AS6 Fibre Cement roofing sheet prevents corrosion resulting from the combination of condensation, animal gases and waste present in buildings used for over-wintering livestock.

FLASHINGS & GUTTERS

Metal flashings and louvers

Steadmans manufacture a wide range of ridge, barge, verge, gutter, apron, cap, corner, internal and drip flashings in galvanised, polyester, PVF2 or Plastisol, leathergrain and Scintilla finishes to complement our cladding systems.

Most flashings incorporate our 'Lockroll' safety edge. Louvers are available in a range of shapes and sizes to suit customer requirements.

Metal gutters & downpipes

Steadmans gutters are designed to compliment our flashing and cladding systems. Trimline gutters and downpipes are available in galvanised, polyester, PVF2 or Plastisol, leathergrain and Scintilla finishes to match our range of flashings; insulated and uninsulated valley, box and secret gutters are available in pre-galvanised steel (to BS EN 10143:2006), pre-coated steel and aluminium (to special order).

Plastic gutters & downpipes

Hunter Plastics rainwater systems from Steadmans may be used where PVC-u gutters and downpipes are preferred to metal systems.

Steadmans have selected Hunter Plastics so we can offer the widest choice and most innovative PVC-u systems available today.

PARAMOUNT STEEL DOORS

Steadmans secure steel exit doors are designed to integrate perfectly with our steel cladding systems. There are two door types, each insulated to BS EN 1634-1:2000:

- Fire rated emergency escape steel door
- Ten point locking security steel door

Both doors are insulated in accordance with British Standards directives BS EN 1634-1:2000.

OTHER PRODUCTS

It's the final impression
which counts:

Steadmans' extensive range
of products and accessories
complete any project
with satisfying style.



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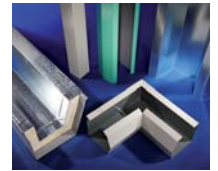
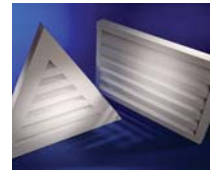


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- 1 Farm building, Scotland.
AS24/1000 Ventair wall sheet.
- 2 Howie Forest Products, Dalbeattie.
Goosewing Grey crimped curved eaves.
- 3 Storage facility, Scotland.
Ivory contrasting flashings, edgings, gutters and downpipes.
- 4 The Beacon, England.
Slate Blue AS6 Fibre Cement roofing with in-plane rooflights.
- 5 Grain storage facility, Bury-St-Edmunds.
Grain-Walling.



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TECHNICAL SUPPORT

Steadmans offers comprehensive technical support to designers and contractors working with Steadmans products and accessories, including:

- technical brochures and data sheets
- CAD details
- copies of test certificates
- loading calculations
- NBS Specifications
- design and installation guidance
- project showcase and case studies

All the support information above can be downloaded direct or requested from our website.

www.steadmans.co.uk

To contact our Technical Department:

- tel: 01697 478 277
- fax: 01697 478 530
- email: support@steadmans.co.uk

To contact our Sales Department:

- tel: 01697 478 277
- fax: 01697 478 530
- email: info@steadmans.co.uk

TECHNICAL BROCHURES

The information contained in this Product Range brochure has been extracted from the relevant, full product technical brochures.

Our technical brochures contain all the performance, design and sitework information specifiers require to select, incorporate and specify Steadmans products into a project.

All our brochures are available in PDF format for immediate download from our web site. Printed copies are also available upon request.

CAD DETAILS

All the design details contained in our technical brochures are being made available for free in AutoCAD 2004 format for incorporating into project designs.

To access the current range of details, go to the Support section of our web site and select the 'Downloads' link.

There is no need to register to use our details.

TEST CERTIFICATES

Copies of test certificates are available upon request from our Technical Department.

LOADING CALCULATIONS

For loading calculations contact our Technical Department - see details opposite.

NBS SPECIFICATIONS

NBS Plus is a library of technical product information written in NBS format, linked to NBS clauses and clause guidance.

The NBS Plus logo consists of the letters 'NBS' in a white, bold, sans-serif font, followed by the word 'Plus' in a smaller, white, sans-serif font, all contained within a dark green rectangular background.

With NBS Plus, specifiers can select products quickly and accurately then drop the product information directly into a specification.

NBS clauses for AS twin skin roof and wall systems and other Steadmans products are now available for NBS subscribers. To access NBS Plus, go to our web site and click on the link on the home page.

DESIGN & INSTALLATION GUIDANCE

Design and installation guidance for the AS35 system, Single Skin system, Twin Skin system, Meta-Slate & Meta-Slate^{Plus} systems, Purlins, Eaves Beams and Rails is contained in the individual technical brochures and manuals.

These can all be downloaded from the 'Literature' section of the Steadmans web site.

In addition, we also provide installation instruction sheets for various applications. Links for these are located on the 'Downloads' page in the Support section of our web site.

TECHNICAL SUPPORT

STEADMANS WEBSITE

The Steadmans website is a comprehensive, easy to navigate database of information on Steadmans and our complete range of products and services.



The information is divided into five information sections:

- [Product Range](#)
- [Support](#)
- [Showcase](#)
- [About Steadmans](#)
- [Literature](#)

In addition, there is a link on the home page to our NBS Plus page where you can access customisable specification clauses.

Since our new website was introduced in 2007 it has received over 5,500 visits per month.

We strive to ensure that using the website is as rewarding as possible and always welcome any feedback you have regarding the content and usability of our website.

Product range



All the information contained in our technical brochures is included on the website along with download pdfs of individual brochure sections of some products covering design guidance, technical details and performance data. This section also includes additional products which do not have printed or download brochures.

Support



The Support section includes information on Fire Performance and Warranties, a list of Frequently Asked Questions, links to other relevant Organisations/Trade Associations/ Building Regulations and to our NBS Plus Specifications. You can also request information, and download literature and installation instructions for our sheets and other products.

Showcase



The Showcase section contains additional information and photographs of all the projects featured in this brochure.

Literature



This is a quick link to a page where you can request printed copies of our brochures or download electronic copies in PDF format.

The download page includes a link to the free Acrobat Reader software which enables you to read PDF files.

Subscriber Area

Completing the website is a subscriber area: this contains links to Steadmans cold rolled section design software and the cold rolled section detailing package.

You will be required to register to enter the subscriber area.

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ENVIRONMENTAL CREDENTIALS

We recognise the need to manage the impact which our business and processes have on the environment. We believe we have a responsibility to contribute to the well-being of the communities we live in. We are committed to providing a clean, safe environment.

Developing sustainable construction methods presents a challenge to the whole construction industry. Our main raw material, steel, is eminently recyclable: 85 - 90% of steel from demolition goes for re-use and 40% of steel used in new construction has been recycled.

By using modern machinery and upgrading our facilities we are continually reducing the impact of our products on the environment, and improving their contribution to the long-term performance of buildings.

nbsPlus

riba
product
selector

www.steadmans.co.uk