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C/SIB	(42)	H + Rn6	(J4)

August 2016



Wall, Door and Corner Protection

ACROVYN® WALL, DOOR & CORNER PROTECTION

Protecting interior surfaces and maintaining a high-quality appearance in busy facilities has never been easier.

Renowned for its quality and durability, Acrovyn® is the product of choice in buildings across a wide spectrum of market sectors, including healthcare, education, retail, commercial and leisure. Now available in the widest ever range of material, shape, colour and finish options, Acrovyn® enhances and protects any interior.

Browse through this brochure to find out how Acrovyn® solutions can help make your building look great for longer, and reduce ongoing maintenance costs.



COMPANY PROFILE

Construction Specialties operates through 22 offices worldwide, and has key manufacturing locations or Sales Offices in most European countries.

The UK Head Office, based in Buckinghamshire, is the sales and manufacturing hub for servicing markets across the UK, Ireland, Nordic Countries, Latvia, Estonia and Malta, through a network of experienced and professional technical sales representatives.

Our product range includes wall and corner protection, bespoke wall protection, impact resistant doors, entrance matting systems, performance coatings, expansion joint covers, solar shading, cubicle curtain track, architectural louvres and pressure relief systems.

These have been successfully installed in many of the world's most prestigious buildings, across a spectrum of business sectors including healthcare, transport, retail, leisure and commercial offices.

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PRODUCT RANGE:	
ACROVYN SHEET FOR SURFACE PROTECTION	ACROVYN WALL AND CORNER PROTECTION PROFILES
 ACROVYN TEXTURED SHEET 16-19 2mm Acrovyn Sheet in our original Pebblette texture provides a versatile protection solution for interior surfaces. Available in 30 solid colours, 6 Faux Wood finishes and 3 Faux Metal finishes as standard.	 HANDRAILS Available in a choice of materials to suit aesthetic and functional requirements, our stylish handrails are BS 8300:2001 and Approved Document M compliant. ACROVYN / ACROVYN 4000 ▶ 40-41 TIMBER ▶ 42-43 STAINLESS STEEL ▶ 42-43
 ACROVYN 4000 TEXTURED SHEET 20-23 Our most environmentally friendly Acrovyn formulation is free from PVC, PBTs, BPA, and is 100% recyclable. 1.5mm thick, Suede textured Acrovyn 4000 sheet is available in 30 solid colours as standard.	 HAND/CRASH RAILS Designed to provide mobility support, while protecting walls from impact damage, CS hand/crash rails are available in a choice of materials, shapes, sizes and colours. ACROVYN / ACROVYN 4000 ▶ 44-48 ACROVYN OR ACROVYN 4000 / TIMBER ▶ 45, 48-49
 ACROVYN HYDROCLAD 24-27 Perfect for environments where hygiene is critical, smooth Acrovyn Hydroclad Sheet provides an impervious and easy to clean surface. 2mm thick and available in 5 standard colours.	 CRASHRAILS From severe duty solutions designed for busy corridors to light duty options for waiting areas, our selection of crashrails and rub rails provides reliable protection at impact level. ACROVYN / ACROVYN 4000 ▶ 50-59 STAINLESS STEEL ▶ 74-79 RUBBER ▶ 80-82
 ACROVYN BY DESIGN 28-31 Transform your interior using our bespoke wall protection. Your photographs, graphics or branding will be embedded behind our durable Acrovyn 4000 Sheet, to protect both the artwork, and the surface it's applied to.	 CORNER PROTECTION A wide range of models for protection of external corners from impact damage. Choose from surface or flush mounted models, and from a range of materials & finishes to suit your requirements. ACROVYN ▶ 60-65 STAINLESS STEEL ▶ 76-77 RUBBER ▶ 83
 ACROVYN PANELS 32-35 Tailored to withstand high-traffic abuse, Acrovyn Wall Panels keep walls beautiful and damage free. Produced to custom specifications and sizes, Acrovyn Panels utilise Acrovyn or Acrovyn 4000 Sheet.	 BED HEAD PROTECTION Acrovyn bed head protectors are available in vertical and horizontal configurations, and in a range of stand-offs to suit project requirements. Flat protection solutions are also available. ACROVYN ▶ 66-69
 ACROVYN DOOR AND DOOR FRAME PROTECTION 36-39 Reduce the need for costly maintenance and increase the lifecycle of your interior doors by applying Acrovyn Sheet protection to door faces, edges and frames.	ACROVYN / ACROVYN 4000 PROFILE COLOURS 70-71 ACROVYN PROFILES - PERFORMANCE 72 ACROVYN PROFILES - PREFABRICATION AND RAPID FIX 73
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BEAUTIFULLY PROTECTED INTERIORS

CS Acrovyn® provides designers and facility owners with a comprehensive selection of solutions, enhancing and protecting any interior.

Through-coloured and impact resistant Acrovyn® Sheet provides a tough, durable, and easy to clean finish to interior walls, doors, reception desks and other interior surfaces. Our sheet protection can also incorporate high quality imagery and graphics, enabling you to create unique and striking designs.

Robust Acrovyn® Profiles protect walls and corners from damage, and are available in a wide choice of shapes, sizes, materials, colours and finishes to suit functional and aesthetic requirements.

For a complete and reliable protection solution for your interior, look no further than CS Acrovyn®.

ACROVYN SHEET
FAUX WOOD ▶ 16-19

ACROVYN BY DESIGN
▶ 28-31

DOOR PROTECTION
▶ 36-39



KEY TO SYMBOLS

To assist you with selecting the best product to meet your needs, we've used a few key symbols throughout this brochure.

All products available in our PVC-free Acrovyn 4000 option are designated with:



All products benefiting from our quick and unique mounting system are marked:



To find out how Rapid Fix works see ▶ 73

Duty rating symbols indicate which areas of the building our products are best suited for:



light duty
for pedestrian areas with lightweight trolleys in occasional use



medium duty
similar to 'light duty' but with more mobile equipment in use



heavy duty
for main circulation areas subject to regular damage



severe duty
for distribution or circulation areas with regular heavily laden trolleys

ACROVYN SHEET/PANELS

▶ 16-35

CORNER PROTECTION

ACROVYN ▶ 60-65

WALL PROTECTION

ACROVYN ▶ 40-69



MARKET SECTORS

WALL PROTECTION FOR SPECIFIC BUILDING TYPES

The fabric of busy environments is often subjected to extensive wear and tear, resulting in unsightly impact damage. Incorporating wall and door protection products is a key design factor, ensuring the longevity of a building's interior while helping to reduce maintenance costs and the need for repairs and redecorations.

TYPICAL DAMAGE SOURCES:

- Bumps and scuffs from shopping trolleys, wheelchairs and pushchairs
- Doors being opened by trolleys and/or feet
- Bags/rucksacks causing surface scuffing
- Chair backs and beds impacting walls

COMMONLY AFFECTED AREAS:

- Trolley routes around buildings
- Likely congestion areas
- Circulation spaces, including lift lobbies, main corridor routes and refectories

CONSIDERATIONS FOR EFFECTIVE DAMAGE PROTECTION:

- The optimum height for corner guards
- The position of crashrails and their duty rating in relation to trolley sizes, as well as frequency and severity of impact
- Whether mobility support is required in pedestrian access areas
- If there is sufficient corridor width to fix the wall protection on brackets to keep the traffic away from the wall surface
- If impact sheet protection is required for doors or walls
- Which material is appropriate for the location, e.g. stainless steel in kitchens, rubber in delivery areas, Acrovyn in general circulation spaces

HEALTHCARE



IMPROVING THE HEALTH OF THE BUILDING

Protect high usage healthcare environments from damage caused by pedestrian and wheeled traffic, and maintain a functional building with resilient and hygienic Acrovyn.

- Part M compliant handrails and impact absorbing profiles prevent damage to busy circulation areas, while assisting people to move safely around the building
- Protect the walls/medi-rails in wards and bedrooms with our bed head protection
- Introduce artwork and create welcoming, calming interiors with a non-institutional feel, using Acrovyn by Design
- Protect doors and frames from damage caused by trolleys and beds, with Acrovyn Sheet



HANDRAILS



CRASHRAILS AND
CORNER GUARDS



SHEET ON WALLS
AND DOORS



ACROVYN BY DESIGN



BED HEAD
PROTECTORS

RETAIL OUTLETS



ENHANCING THE CUSTOMER'S EXPERIENCE

Stylish yet functional, Acrovyn impact protection can be incorporated into front of house store design, while stainless steel and rubber profiles will safeguard back of house areas.

- Corner guards and sheet will keep columns and walls in great shape when faced with trolleys, pushchairs and wheelchairs
- Acrovyn by Design provides store protection and brand promotion
- Keep busy doors in functioning order for longer with our range of door protection solutions
- Use sleek stainless steel products in kitchen and food preparation/ service areas
- Specify heavy duty rubber options for loading bays and car parks
- Easy to install and maintain products will keep the facility functional and welcoming for customers and staff



ACROVYN BY DESIGN



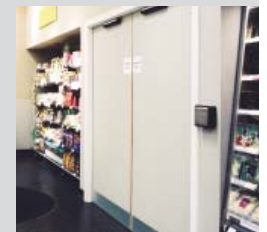
SHEET AND PANELS



CRASHRAILS



CORNER GUARDS



DOOR PROTECTION

EDUCATION



CREATING STIMULATING INTERIORS FOR TOP MARKS

Acrovyn helps to create a clean, bright and stimulating learning environment while protecting the building from the rigours of student life.

- Coloured crashrails and corner protection help to maintain a functional and inspiring environment for any budget
- Tough and durable Acrovyn Sheet keeps doors and walls along busy corridors in good condition
- Incorporate stimulating and inspiring imagery - use Acrovyn by Design to create interiors which positively affect students' performance
- Acrovyn's texture conceals scuffs and general wear & tear caused by bags and everyday use



CORNER GUARDS



ACROVYN BY DESIGN



SHEET ON WALLS



DOOR PROTECTION



CRASHRAILS

FOOD RETAIL



DELIVERING THE PERFECT DINING EXPERIENCE

Interior décor sets the right tone and ambiance for restaurants and cafés, and helps to create a memorable and enjoyable dining experience.

- Acrovyn Sheet protects surfaces from daily wear and tear and can be kept clean easily
- Use Acrovyn by Design for a unique and lasting interior scheme
- Smooth sheet and stainless steel wall protection provide hygienic surfaces on kitchen walls and corners



CARE HOMES AND DEMENTIA CARE



CREATING A HOMELY AND SAFE ENVIRONMENT

Interior design in care homes should consider the needs of residents, and provide comfortable, safe and easy care accommodation.

- Code compliant handrails offer support for residents with restricted mobility
- Sheet provides unobtrusive surface protection to walls and doors
- Acrovyn by Design incorporating local scenery creates the feeling of familiarity, and can support wayfinding or reminiscence therapies
- Areas likely to suffer from impact damage can be effectively protected with corner guards and crashrails



HOTELS



STAYING IN FIRST CLASS CONDITION

From luxury to budget, hotels are busy venues with luggage and trolley movement throughout the building taking its toll. Decorative and functional Acrovyn protection helps to keep the hotel in top condition.

- Use sheet, trolley plates and corner guards in corridors, receptions, bedrooms and luggage areas
- Create a welcoming environment with Acrovyn by Design
- In kitchens and laundry areas, use robust stainless steel crashrails and corner guards



COMMERCIAL



RETAINING A BUILDING'S STYLE

Commercial buildings make a statement through interior design, yet many areas within the building require regular attention to keep them maintained to a high standard.

- Protect columns and corridor walls with Acrovyn corner guards and crashrails
- Use Acrovyn Sheet and Panels in circulation areas to reduce maintenance
- Create feature walls with Acrovyn by Design
- Install rubber or stainless steel profiles to protect back of house areas



SPORTS AND LEISURE



MAINTAINING INVIGORATING SURROUNDINGS

Sports facilities and fitness centres are busy, energetic environments. Acrovyn will keep the facility in excellent condition for years.

- Use sheet, crashrails & corner guards in corridors, equipment rooms and changing rooms
- Use Acrovyn by Design to reinforce branding and create energising and stimulating surroundings
- Acrovyn handrails provide support where Part M compliance is required
- Protect back of house areas and car parks with robust rubber products



AIRPORTS



DELIVERING DURABLE PROTECTION

With high levels of pedestrian and vehicular traffic passing through busy airports, impact damage is inevitable.

- Use Acrovyn crashrails, corner guards and sheet to protect check-in desks, arrivals lounges, waiting rooms and retail areas
- Heavy duty rubber protection will stand up to the rigours of back of house corridors and baggage handling areas
- Use durable Acrovyn by Design in retail and passenger transfer areas



ACROVYN® 4000 WALL PROTECTION

CS Acrovyn® 4000 is the most environmentally friendly - and the best looking - impact protection solution we have ever produced.

Formulated to be PVC-free and 100% recyclable, Acrovyn® 4000 is as strong and durable as traditional Acrovyn®. Best of all, it doesn't cost any extra.

Now available in an extended range of colours and model options to provide wall protection solutions fit for any environment.



SOUTHMEAD PFI HOSPITAL
BRISTOL

SUSTAINABILITY



Acrovyn 4000 has been formulated to be **free from** PVC, Persistent Bioaccumulative Toxins (PBTs), Bisphenol-A (BPA) and halogenated or brominated fire retardants. The material is highly durable and 100% recyclable

With Acrovyn 4000 you can protect your walls and the environment.

PERFORMANCE



When specifying Acrovyn 4000 products, you won't compromise on performance. Tests prove they withstand the same level of impact damage as our traditional Acrovyn.

For further information see:

ACROVYN 4000 SHEET ▶ 23

ACROVYN 4000 PROFILES ▶ 72

PRODUCT RANGE



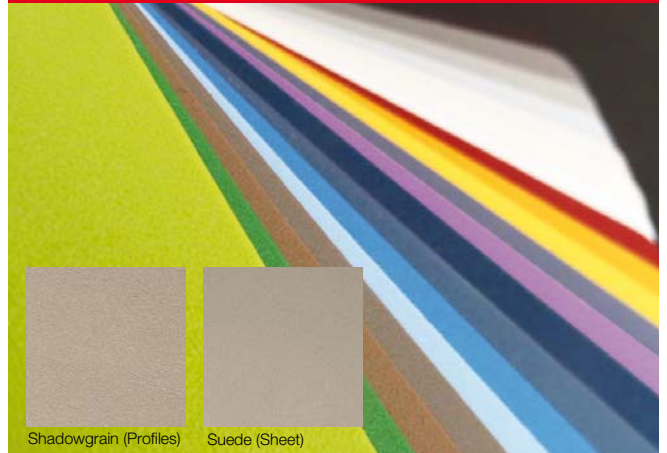
Our most popular profiles, sheet and panels come in Acrovyn 4000 as an option. Look out for



acrovyn 4000 on product pages.

SHEET ▶ 20-23 HANDRAILS ▶ 41 HAND/CRASH RAILS ▶ 44-49
CRASHRAILS ▶ 50-51, 54-59 CORNER GUARDS ▶ 60-61, 64-65
BED HEAD PROTECTORS 66-69

COLOURS AND TEXTURES



Acrovyn 4000 Sheet is now available in 30 standard colours, while profiles can be supplied in any of our 8 most popular solid colours. Faux Wood finishes can also be specified for some of our handrails.

The contemporary new textures look great, and their shallow profiles make cleaning and maintenance easy.

SHEET COLOURS ▶ 22-23 PROFILE COLOURS ▶ 71



www.c-sgroup.co.uk/2581

DESIGN FREEDOM

Historically, wall protection was intended to be just a functional part of the built environment and was designed with a more industrial look and feel. Today, wall protection comes in a wide selection of colours, finishes and styles, allowing you to create interior spaces which are resilient and aesthetically pleasing.

Design fun, bright wall murals, durable signage, logos, or decorative kick plates and push plates for doors, using Acrovyn® Sheet. Choose from our refreshed palette of colours and finishes to co-ordinate wall protection with other interior surfaces.

For true design freedom, specify Acrovyn by Design®. Your images, graphics or branding will be safely embedded behind our durable, Acrovyn® 4000 Sheet, creating stunning interiors that lasts.

The following pages show what is possible with CS Acrovyn®.



Customised Acrovyn Sheet protection on walls and doors adds interest and provides positive distraction in a hospital's waiting area.

ROYAL OLDHAM HOSPITAL
OLDHAM

An intrinsic part of any design scheme, colour can influence the mood and behaviour of building inhabitants. Acrovyn's colour offering has been updated to reflect interior design trends, and to help you produce harmonised designs. Whatever ambience you want to create, finding the right combination for your project is just a question of choice. Your choice.

WARM, SOOTHING COLOURS INSPIRED BY NATURE

Soft, low contrast colours help to create peaceful environments, where wellbeing and aesthetics are important.

In addition our timber handrails, or Faux Wood finishes now available for handrails and sheet, will provide a warm, non-institutional feel to the interior.



VIBRANT AND UPLIFTING COLOUR COMBINATIONS

Use intense colours to make a bold design statement, or to create bright and stimulating interior schemes.

These colours can also be successfully utilised in wayfinding schemes in large buildings.



STYLISH, COOL AND ELEGANT

Wall protection can be extremely stylish. Combinations of light and dark colours, and our Faux Metal finishes, can blend in with, or accent even the most contemporary environments.



When it comes to fully inclusive interior design, using legislation compliant Acrovyn wall protection doesn't mean you have to compromise on aesthetics. From our White 949 (LRV 86) to Earth (LRV 8) and plenty of options in between, achieving 30 points or more of difference in Light Reflectance Value is a breeze.

For information on legislation requirements for visual contrast see:

CODES AND LEGISLATION ▶ 84

For full range of our colour and finishes see:

ACROVYN SHEET ▶ 18-19 ACROVYN 4000 SHEET ▶ 22-23

ACROVYN HYDROCLAD ▶ 26 ACROVYN PROFILES ▶ 70

ACROVYN 4000 PROFILES ▶ 71 TIMBER HANDRAILS ▶ 71



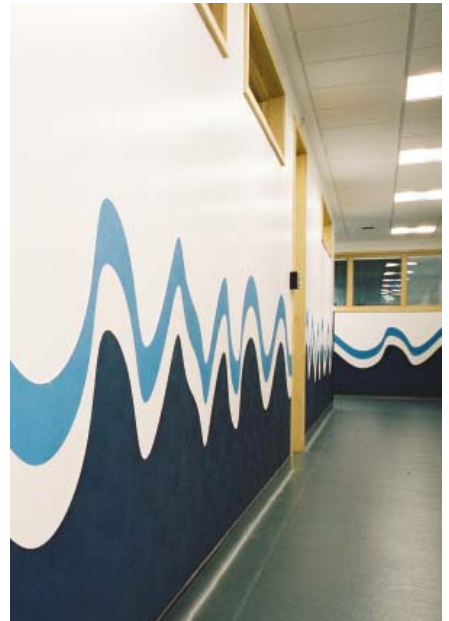
▲ Durable signage in contrasting colours of Acrovyn Sheet improves wayfinding in an A&E department

▲ Bespoke corner and door protection adds colour and fun in a children's X-ray unit

◀ Stylish, solid timber handrails with stainless steel accessories offer a quality finish, suitable for any environment

▶ Three colours of Acrovyn Sheet have been used to create a distinct wave effect in corridors

▼ The upper handrail cover in a wood effect finish creates a warm and inviting feel in the corridor leading to the dementia ward. Crashrail colours match door frames and complement feature walls



The large Acrovyn by Design mural brings comforting and familiar seaside scenes to the interior.



ACROVYN® TEXTURED SHEET

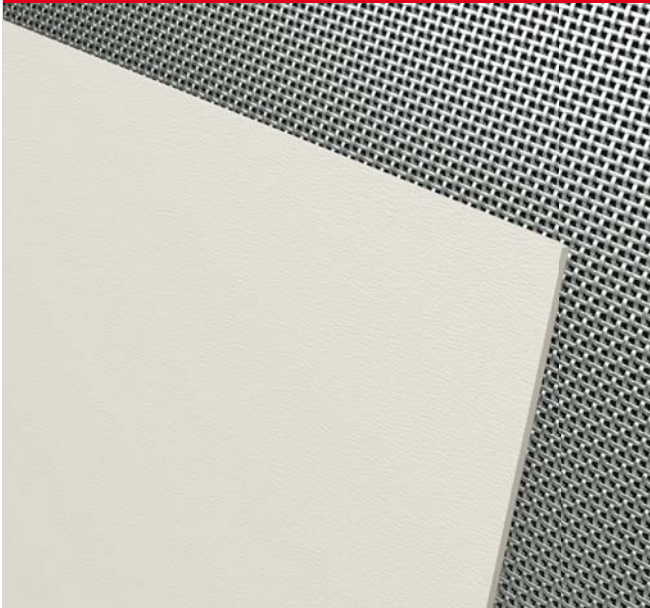
Acrovyn® Sheet provides an impact resistant surface finish for a variety of situations. It can be easily cut, formed or moulded before being adhered to a wide range of substrates. An Acrovyn® column casing, reception desk facing or decorative wall covering - and many more applications - are all possible.

The through-coloured material features a textured surface, which helps to hide the effects of impact and abrasion, and can be easily maintained to a high standard to provide long lasting protection for building interiors.



ALDER HEY CHILDREN'S HOSPITAL
LIVERPOOL

FEATURES AND BENEFITS



- Durable and impact resistant material for protection of interior surfaces from damage and wear & tear
- Through-coloured and textured surface effectively hides scratches and abrasions
- Comes in a wide range of solid colours, Faux Wood and Faux Metal finishes to suit project requirements
- Easy to cut, form and shape for design flexibility
- Impervious and non-porous surface, which is resistant to most stains and chemicals
- Harbours no bacteria or fungi on a clean surface and can be used in hygiene sensitive environments
- Easy to clean surface helps to reduce maintenance costs and will retain 'as new' appearance for years



DESIGN AND FINISHING OPTIONS

DESIGN SHAPES AND CUTTING

Acrovyn Sheet can be supplied ex-stock, or pre-cut to project specific sizes. The material can also be cut on site using simple tools. Custom shapes, signage and logos can be produced using our advanced in-house cutting equipment.

FORMING

Line Bending

The material can be formed on site to create channels or angles (instructions are available on request). Formed sections can also be supplied to order, if required.

Thermoforming

Acrovyn Sheet is suitable for thermoforming. Please contact us for information on our thermoforming service.

FINISHING OPTIONS

Mastic Joints

Available in all solid Acrovyn colours, CS Mastic is easy to apply and forms an impervious seal.

Hot Welded Joints

Welded joints can be achieved for butt jointed Acrovyn Sheet. Welding rods come in all standard solid colours.

Trims

Edge Trims are available in all Acrovyn colours.

Bullnose Edge

Acrovyn Sheet can be supplied with an optional bullnose edge.



Edge Trim



Bullnose Edge

CORNER OPTIONS

Acrovyn Sheet can be formed to provide internal and external corners. For external corners requiring heavier duty protection, surface mounted corner guards can be selected ▶ 60-65

SKIRTING

Angles formed from Acrovyn Sheet can be applied to skirting boards for a protective and impact resistant finish. These can be achieved on site, or ordered to custom sizes.

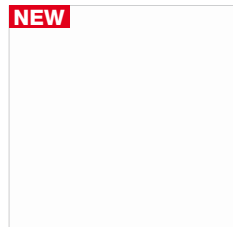


www.c-sgroup.co.uk/414

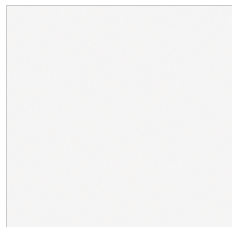
ACROVYN® TEXTURED SHEET

COLOUR RANGE - NEUTRALS

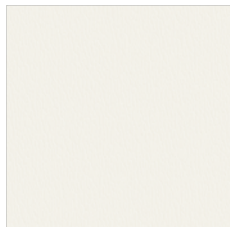
NEW



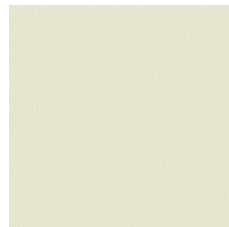
949 White
LRV* 86



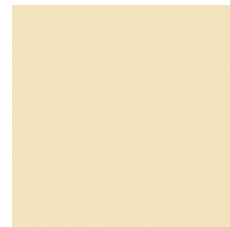
9003 Snow White
LRV* 75



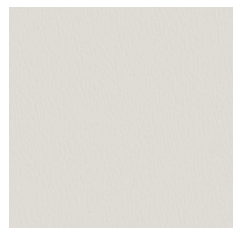
933 Mission White
LRV* 80



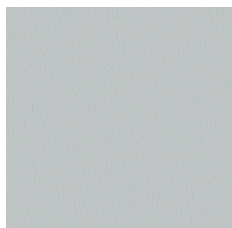
100 Eggshell
LRV* 73



101 French Cream
LRV* 70



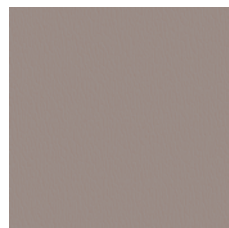
801 Grey Cloud
LRV* 64



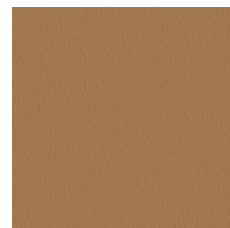
24 Dove
LRV* 49



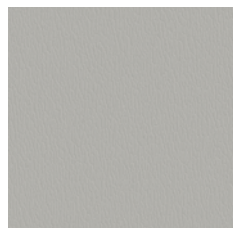
7039 Iron
LRV* 19



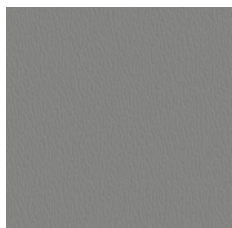
26 Taupe
LRV* 24



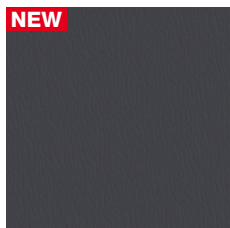
105 Mocha
LRV* 23



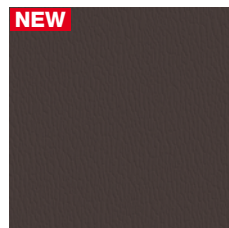
136 Pearl Grey
LRV* 39



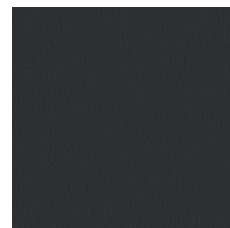
162 Charcoal
LRV* 22



7024 Graphite
LRV* 10



8019 Earth
LRV* 8



108 Black
LRV* 9

FAUX WOOD FINISHES



Maple 02
LRV* 37



Bleached Oak 36
LRV* 40



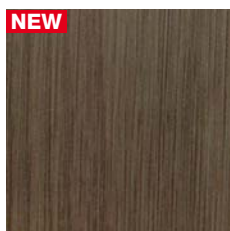
Wenge 39
LRV* 10



Beech 03
LRV* 26



Smoked Oak 38
LRV* 18



Burnt Oak 40
LRV* 10

FAUX METAL FINISHES



Brushed Aluminium 06
LRV* 30



Carbon 07
LRV* 8



Brushed Nickel 80
LRV* 16

* Light Reflectance Value (LRV) indicates the amount of light reflected by a surface and can be used to assess the degree of visual contrast between different surfaces. Approximate LRV values for CS Acrovyn colours and finishes have been determined using the CIE Y value measurement method.

NOTE: Due to limitations of print and computer screens, actual colours may vary. Samples of all colours and finishes are available upon request.

COLOUR RANGE - BRIGHTS



16 Harvest Gold
LRV* 66



17 Sherbet
LRV* 47



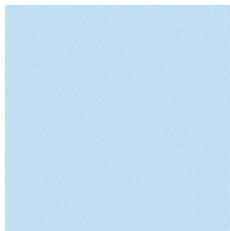
845 Spectrum Red
LRV* 19



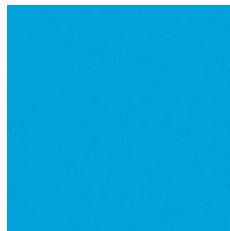
34 Zest
LRV* 55



23 Spring Green
LRV* 24



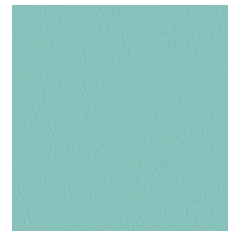
11 Alpine Blue
LRV* 50



112 Pacific Blue
LRV* 26



5018 Lagoon
LRV* 31



879 Dusty Jade
LRV* 35



6033 Mint Turquoise
LRV* 24



223 Danube
LRV* 17



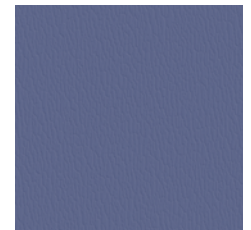
12 Cobalt
LRV* 20



129 Yale Blue
LRV* 11



4005 Plum
LRV* 19



520 Imperial Purple
LRV* 17

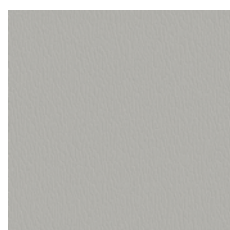
SHEET SIZES

PRODUCT	THICKNESS (MM)	SIZE† (MM)
Acrovyn Sheet - solid colours	2	2440 x 1220
Acrovyn Sheet - Faux Wood/Metal Finishes	2	3000 x 1250

† Custom sizes within given dimensions are available, please contact us for details.

TEXTURE

The Pebblette texture of Acrovyn Sheet helps to conceal the effects of daily wear and tear, whilst being easy to clean.



Pebblette - Acrovyn Sheet in solid colours and Faux Wood/Metal finishes

PERFORMANCE

IMPACT RESISTANCE

Acrovyn Sheet is a highly durable, textured material, designed to conceal the effects of impact and abrasion. Impact tested to BS EN ISO 6603-1:2000.

FIRE PERFORMANCE

Acrovyn Sheet complies with the requirements for Class 1 surface spread of flame, with a Class 0 designated surface as defined in Appendix A of Approved Document B (Fire Safety) - Volume 2, to the Building Regulations 2010 (2006 Edition incorporating 2007 and 2010 amendments) and as tested to BS 476-6:1989 and BS 476-7:1997.

Acrovyn Sheet has been tested to BS EN ISO 11925-2:2002 and BS EN 13823:2002 and classified according to BS EN 13501-1:2007+A1:2009 as class B-s3, d0.

CHEMICAL, BACTERIAL AND FUNGAL RESISTANCE

Acrovyn Sheet does not propagate the growth of bacteria or fungi on a clean surface. However, the anti-microbial properties of the product do not negate the need for a rigorous cleaning regime. Tested to BS EN ISO 846: 1997.

Acrovyn Sheet is formulated to resist most commonly used chemical solutions.

THERMAL PERFORMANCE

Materials should be acclimatised at an ambient temperature for a min. of 24 hours prior to commencement of works. Acrovyn Sheet will expand and contract with changes in temperature, in the order of 0.07mm/m for every one degree Celsius rise or fall. It is important to allow for this at sheet edges, joint positions etc.

VOC EMISSIONS TESTING

When tested in accordance with ISO 16000 series principles, Acrovyn material has achieved M1 Emission Classification of Building Materials.

CLEANING AND MAINTENANCE

Acrovyn Sheet can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308.

ACROVYN® 4000 TEXTURED SHEET

Our most environmentally friendly surface protection option features an attractive, contemporary texture and can be used to safeguard a variety of interior surfaces from damage and daily wear.

Acrovyn® 4000's PVC-free formulation is also free from Persistent Bioaccumulative Toxins (PBTs), Bisphenol A (BPA), as well as halogenated or brominated fire retardants. The material is 100% recyclable.

Designed to maximise the lifetime of the interior surfaces that it is applied to, Acrovyn® 4000 Sheet offers the same durability and impact resistance as our original Acrovyn® Sheet, and doesn't cost any extra.



MARKS AND SPENCER
WOLSTANTON

FEATURES AND BENEFITS



- Tough and impact resistant, will maintain 'as new' appearance throughout its long design life
- Through-coloured and textured to effectively hide scratches and abrasions
- Available in 30 standard colours to meet aesthetic and visual contrast requirements
- Easy to cut, form and shape to suit a multitude of applications
- Impervious and non-porous surface is resistant to most stains and chemicals
- Harbours no bacteria or fungi on a clean surface, making it suitable for hygiene sensitive environments
- Durable and easy to clean, reduces maintenance costs and need for refurbishment
- PVC-free and fully recyclable for projects with low environmental impact



DESIGN AND FINISHING OPTIONS

DESIGN SHAPES AND CUTTING

Acrovyn 4000 Sheet can be supplied ex-stock, or pre-cut to project specific sizes if required. The material can also be cut on site using simple tools.

Custom shapes, signage and logos can be produced using our advanced in-house cutting equipment.

FORMING

Line Bending

The material can be formed on site to create channels and angles (instructions available on request). Formed sections can also be supplied to order, if required.

Thermoforming

Acrovyn 4000 Sheet is suitable for thermoforming. Please contact us for information on our thermoforming service.

FINISHING OPTIONS

Mastic Joints

Available in all Acrovyn 4000 colours, CS Mastic is easy to apply and forms an impervious seal.

Trims

Edge Trims are available in all Acrovyn 4000 colours.

Bullnose Edge

Acrovyn 4000 can be supplied with an optional bullnose edge.



Edge Trim



Bullnose Edge

CORNER OPTIONS

Acrovyn 4000 Sheet can be formed to provide internal and external corners. For external corners requiring heavier duty protection, surface mounted corner guards can be selected ▶ 60-65

SKIRTING

Angles formed from Acrovyn 4000 Sheet can be applied to skirting boards for a protective and impact resistant finish. These can be achieved on site, or ordered to custom sizes.

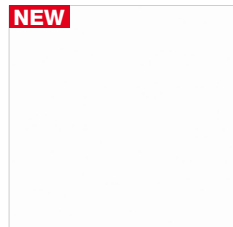


www.c-sgroup.co.uk/8138

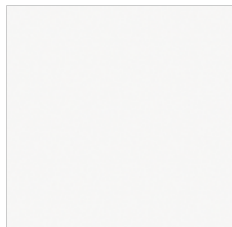
ACROVYN® 4000 TEXTURED SHEET

COLOUR RANGE - NEUTRALS

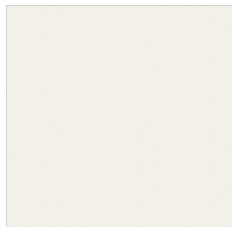
NEW



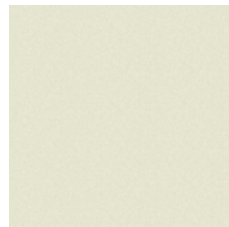
949 White
LRV* 86



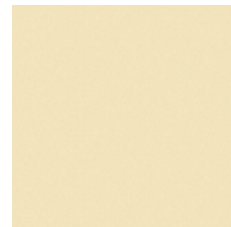
9003 Snow White
LRV* 75



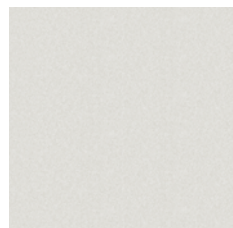
933 Mission White
LRV* 80



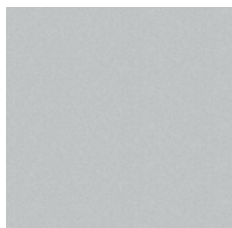
100 Eggshell
LRV* 73



101 French Cream
LRV* 70



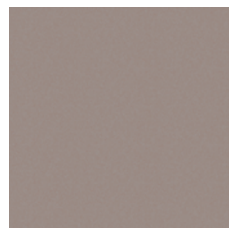
801 Grey Cloud
LRV* 64



24 Dove
LRV* 49



7039 Iron
LRV* 19



26 Taupe
LRV* 24



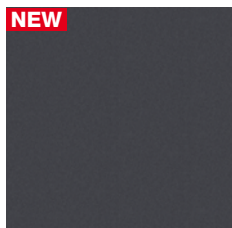
105 Mocha
LRV* 23



136 Pearl Grey
LRV* 39



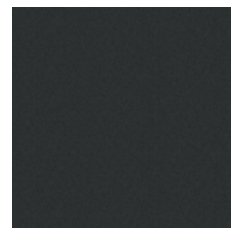
162 Charcoal
LRV* 22



7024 Graphite
LRV* 10



8019 Earth
LRV* 8



108 Black
LRV* 7

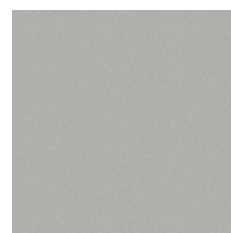
SHEET SIZES

PRODUCT	THICKNESS (MM)	SIZE† (MM)
Acrovyn 4000 Sheet	1.5	2440 x 1300

† Custom sizes within given dimensions are available, please contact us for details.

TEXTURE

Our contemporary Suede texture is designed to conceal signs of wear and tear, whilst offering an easy to clean surface.



Suede - Acrovyn 4000 Sheet

* Light Reflectance Value (LRV) indicates the amount of light reflected by a surface and can be used to assess the degree of visual contrast between different surfaces. Approximate LRV values for CS Acrovyn 4000 colours have been determined using the CIE Y value measurement method.

NOTE: Due to limitations of print and computer screens, actual colours may vary. Samples of all colours are available upon request.

COLOUR RANGE - BRIGHTS



16 Harvest Gold
LRV* 66



17 Sherbet
LRV* 47



845 Spectrum Red
LRV* 19



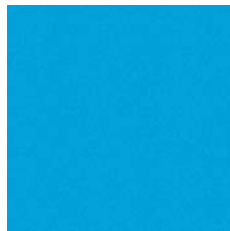
34 Zest
LRV* 55



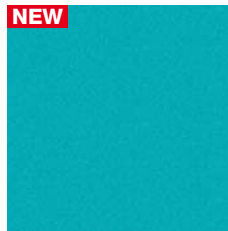
23 Spring Green
LRV* 24



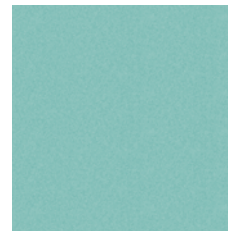
11 Alpine Blue
LRV* 50



112 Pacific Blue
LRV* 26



5018 Lagoon
LRV* 31



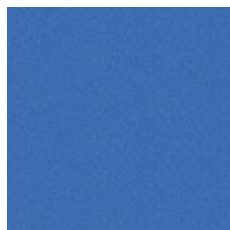
879 Dusty Jade
LRV* 35



6033 Mint Turquoise
LRV* 24



223 Danube
LRV* 17



12 Cobalt
LRV* 20



129 Yale Blue
LRV* 11



4005 Plum
LRV* 19



520 Imperial Purple
LRV* 17

PERFORMANCE

IMPACT AND ABRASION RESISTANCE

Acrovyn 4000 Sheet provides a tough, through-coloured and textured surface finish, which is resistant to impact and abrasion. Tested in accordance with ASTM D 4060-07 for abrasion resistance and to ASTM F 476-84 (Reapproved 2002) for resistance to impact.

FIRE PERFORMANCE

Acrovyn 4000 Sheet has been tested to BS EN ISO 11925-2:2010 and BS EN 13823:2010 and classified in accordance with BS EN 13501-1:2007+A1:2009 as class B-s1, d0.

CHEMICAL, BACTERIAL AND FUNGAL RESISTANCE

Acrovyn 4000 Sheet does not propagate the growth of bacteria or fungi on a clean surface. However, the anti-microbial properties of the product do not negate the need for a rigorous cleaning regime. Tested in accordance with BS EN ISO 846: 1997.

Acrovyn 4000 is formulated to resist most commonly used chemical solutions.

VOC EMISSIONS TESTING

When tested in accordance with EN ISO 16000-9 for the release of volatile organic compounds, Acrovyn 4000 Sheet achieved Class A+.

THERMAL PERFORMANCE

Materials should be acclimatised at an ambient temperature for a minimum of 24 hours prior to commencement of works.

Acrovyn 4000 will, like most materials, expand and contract with changes in temperature, in the order of 0.09mm/m for every one degree Celsius rise or fall. It is important to allow for this at sheet edges, joint positions etc.

CLEANING AND MAINTENANCE

Acrovyn 4000 can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308.

ACROVYN® HYDROCLAD

Acrovyn® Hydroclad smooth sheet provides an impervious, hygienic and impact resistant surface for interior walls. It is particularly suitable for hygienically sensitive areas - such as food processing and preparation areas, laboratories and medical facilities - which require a smooth, seamless and easy to clean surface.

Acrovyn® Hydroclad is easy to install, with several jointing options to suit different application requirements.



NEW VICTORIA HOSPITAL
GLASGOW

FEATURES AND BENEFITS



- Smooth, impervious and non-porous surface protection for sterile environments
- Harbours no bacteria or fungi on a clean surface, making it suitable for healthcare and food preparation areas
- Tough and impact resistant to avoid health risks associated with cracked tiles and unsightly grout
- Easy to clean surface conforms to EU food hygiene requirements
- Resistant to chemicals, acids, alkalis, grease etc., making it suitable for a wide range of applications and cleaning regimes
- The easy to clean and maintain finish helps to reduce maintenance costs and enhances appearance



DESIGN AND FINISHING OPTIONS

APPLICATION

We recommend the use of a contact adhesive to adhere Acrovyn Hydroclad to a substrate.

Hydroclad sheet is supplied with a protective film to the face side, which should be left in place until the room is ready for use.

Installation instructions are available on request.

CUTTING AND FORMING

Acrovyn Hydroclad can be supplied ex-stock, or pre-cut to project specific sizes if required. The material can also be cut on site using simple tools.

FORMING

Line Bending

The material can be formed on site to create channels, angles, internal or external corners (instructions available on request). Formed sections can also be supplied to order, if required.

Thermoforming

Acrovyn Hydroclad is suitable for thermoforming. Please contact us for information on our thermoforming service.

FINISHING OPTIONS

Mastic Joints

Colour matched to all Acrovyn Hydroclad colours, CS Mastic ensures fast and easy installation.

Hot Welded Joints

Welded joints can be achieved on site. Welding rods come in all standard Acrovyn Hydroclad colours.

Trims

Edge Trims are available in all Acrovyn Hydroclad colours.

Bullnose Edge

Hydroclad can be supplied with an optional bullnose edge.



Edge Trim



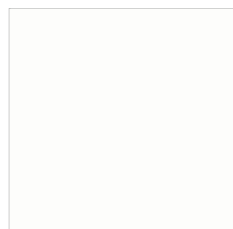
Bullnose Edge



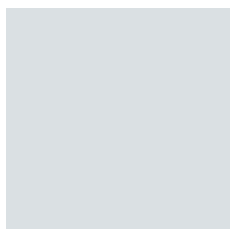
www.c-sgroup.co.uk/415

ACROVYN® HYDROCLAD

COLOURS AND SIZES



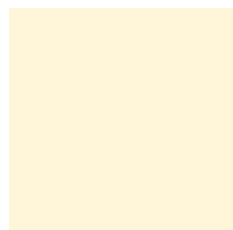
9003 Snow White
LRV* 75



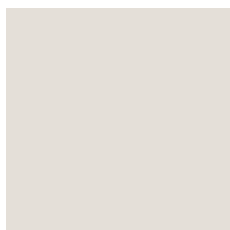
24 Dove
LRV* 49



879 Dusty Jade
LRV* 47



101 French Cream
LRV* 69



801 Grey Cloud
LRV* 64

PRODUCT	THICKNESS (MM)	SIZE† (MM)
Acrovyn Hydroclad - smooth texture	2	3050 x 1220

† Custom sizes within given dimensions are available, please contact us for details.

* Light Reflectance Value (LRV) indicates the amount of light reflected by a surface and can be used to assess the degree of visual contrast between different surfaces. Approximate LRV values for CS Acrovyn Hydroclad colours have been determined using the CIE Y value measurement method.

Note: Due to limitations of print and computer screens, actual colours may vary. Samples of all colours are available upon request.

PERFORMANCE

IMPACT RESISTANCE

Acrovyn Hydroclad is a highly durable material, resistant to impact, general wear & tear and abrasion. Impact tested to BS EN ISO 6603-1:2000.

FIRE PERFORMANCE

Acrovyn Hydroclad complies with the requirements for Class 1 surface spread of flame, with a Class 0 designated surface as defined in Appendix A of Approved Document B (Fire Safety) - Volume 2, to the Building Regulations 2010 (2006 Edition incorporating 2007 and 2010 amendments) and as tested to BS 476-6:1989 and BS 476-7:1997.

Acrovyn Hydroclad has been tested to BS EN ISO 11925-2:2002 and BS EN 13823:2002 and classified according to BS EN 13501-1:2007+A1:2009 as class B-s3, d0.

CHEMICAL, BACTERIAL AND FUNGAL RESISTANCE

Acrovyn Hydroclad does not propagate the growth of bacteria or fungi on a clean surface. However, the anti-microbial properties of the product do not negate the need for a rigorous cleaning regime. Tested to BS EN ISO 846: 1997.

Acrovyn Hydroclad is formulated to resist most commonly used chemical solutions.

VOC EMISSIONS TESTING

When tested in accordance with ISO 16000 series principles, Acrovyn material has achieved M1 Emission Classification of Building Materials.

THERMAL PERFORMANCE

Materials should be acclimatised at an ambient temperature for a min. of 24 hours prior to commencement of works.

Acrovyn Hydroclad, like other materials, will expand and contract with changes in temperature, in the order of 0.07mm/m for every one degree Celsius rise or fall. It is important to allow for this at sheet edges, joint positions etc.

CLEANING AND MAINTENANCE

Acrovyn Hydroclad can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308.



ACROVYN BY DESIGN®

It has been proven that imagery used in building interiors can have a positive impact on learning, healing, productivity and general wellbeing of building occupants.

Our bespoke wall protection combines the environmentally friendly Acrovyn® 4000 with high resolution imagery, taking wall protection beyond the ordinary and into a world of infinite possibilities.

Your photographs, patterns, logos and more can be safely embedded behind our durable Acrovyn® 4000 Sheet, creating stunning interiors that last. Acrovyn by Design® can do more than protect your space. It can transform it.



RILEY HOSPITAL FOR CHILDREN
USA

FEATURES AND BENEFITS



- High quality image reproduction, ideal for displaying graphics, photos and branding
- Complete design flexibility enables creation of bespoke interiors
- Tough and durable bespoke surface protection which retains its original appearance throughout its lifecycle
- Impact, scratch and chip resistant surface, making it suitable for busy areas of any building
- Can be applied to interior walls, doors, counters and many other substrates
- Wipe clean surface, which is highly durable and easy to maintain
- Manufactured using our environmentally friendly, PVC-free Acrovyn® 4000 Sheet



PROPERTIES AND PERFORMANCE

COMPOSITION

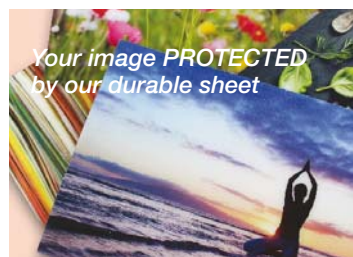
Acrovyn by Design features high-resolution digital print embedded on the reverse side of our 'Suede' textured Acrovyn 4000 Sheet.

The rigid sheet serves as a protective shield for digital imagery, and provides an impact resistant, easily cleanable surface.

Acrovyn 4000 Sheet is free from PVC, BPA (Bisphenol A), PBTs (Persistent Bioaccumulative Toxins) and halogenated or brominated fire retardants. It is also 100% recyclable, making it better for building occupants and the environment.

SIZES

Acrovyn by Design is available in various sizes, standard sheet size is 3020mm x 1220mm. Wall murals will be comprised of multiple sheets for each image. Sheets will be cut as necessary with no additional cutting charge.



THERMAL PERFORMANCE

Acrovyn by Design will, like most other materials, expand and contract with changes in temperature, in the order of 0.09mm/m for every degree Celsius rise or fall. It is important to allow for this at sheet edges, joint positions etc. during installation.

IMPACT AND ABRASION RESISTANCE

Acrovyn by Design provides a durable surface finish, resistant to wear & tear and abrasion. Tested to ASTM D 4060-10 for abrasion resistance.

CHEMICAL, FUNGAL AND BACTERIAL RESISTANCE

Acrovyn by Design is formulated to resist most commonly used chemical solutions and does not propagate the growth of bacteria or fungi on a clean surface. However, the anti-microbial properties of the product do not negate the need for a rigorous cleaning regime.

CLEANING AND MAINTENANCE

Acrovyn by Design can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308.



www.c-sgroup.co.uk/2636

ACROVYN BY DESIGN®

CHOOSING AN IMAGE

IMAGE SELECTION

Selecting the right image for your Acrovyn by Design project is essential, not only for the interior design of your space, but for a number of practical production reasons.

To ensure optimum output quality, we recommend checking the image quality at full size before placing an order with us.

Vector file formats are infinitely scalable, and will produce high quality results, regardless of the final output size.

When supplying bitmap images, you need to consider how the viewer will be interacting with the artwork. Images seen from a longer distance can be output at a lower resolution, measured in ppi (pixels per inch).

The minimum recommended image resolutions are as follows:

Viewing distance	Minimum resolution for best reproduction (in pixels per inch)
< 1.5m	150 ppi at actual output size
1.5 - 3m	100 ppi at actual output size
> 3m	72 ppi at actual output size

Note: Scaling up or re-sampling your images to meet the ppi requirements does not help the picture quality.

Where both vector and bitmap formats are available for your selected image, vector should always be used.

ARTWORK FILE FORMAT

We can work with a wide range of bitmap or vector image file formats, including: **.AI, .EPS, .WFM, .TIF, .JPG, .PSD, RAW** and press quality **.PDF**. If bitmap images contain layers, please flatten them before sending.

CUSTOM COLOURS

Acrovyn by Design can be printed with a solid colour, if required. However, due to the print process limitations, it is not always possible to exactly match Pantone colours. If colour matching is critical, samples will be provided for proofing before we proceed with printing.

COPYRIGHT

CS respects the intellectual property rights of others, and we will only print your image if you are able to provide evidence that you have the right to reproduce it.

We therefore suggest thoroughly researching the origin and copyright status of any image that you intend to use for your Acrovyn by Design project, prior to placing your order with us.

We will require a signed Acrovyn by Design Copyright Agreement in order to avoid any unnecessary delays and potential copyright infringement claims.

ORDERING

PRICING

A basic design of the wall area with relevant dimensions is required for us to provide you with an accurate indication of costs.

COPYRIGHT

We ask our customers to sign the Indemnification Clause included in CS' Terms and Conditions of Sale before proceeding with any order.

ORDERING

At order stage we will also require:

- An accurate wall elevation drawing, indicating image crop areas
- A high resolution image/artwork supplied in the proper file format and resolution as outlined in the 'Choosing an Image' section above

Note: The bleed area for Acrovyn by Design is 3mm on all sides, which should be taken into account when sizing the artwork, as cropping will occur.

Once we have received all the necessary drawings and images / artwork we will supply a PDF layout drawing for final approval.

SAMPLES



For design inspiration and further information on our bespoke wall protection visit our website:

www.c-sgroup.co.uk/2636

Free Acrovyn by Design brochures and samples are available. Bespoke samples featuring your selected image can also be processed, please contact us for further details.



A large wall mural featuring a seaside scene creates a warm and relaxing environment to help reduce patient anxiety

Wall murals add interest and depth to the retail display

Acrovyn by Design featuring a decorative pattern creates an aesthetic and highly durable finish to the lift lobby

A football club's crest and motto features in the players' tunnel design, adding interest and aesthetic appeal

Images of inspirational people are used in the corridor designs to brand academy units, improve wayfinding and motivate pupils

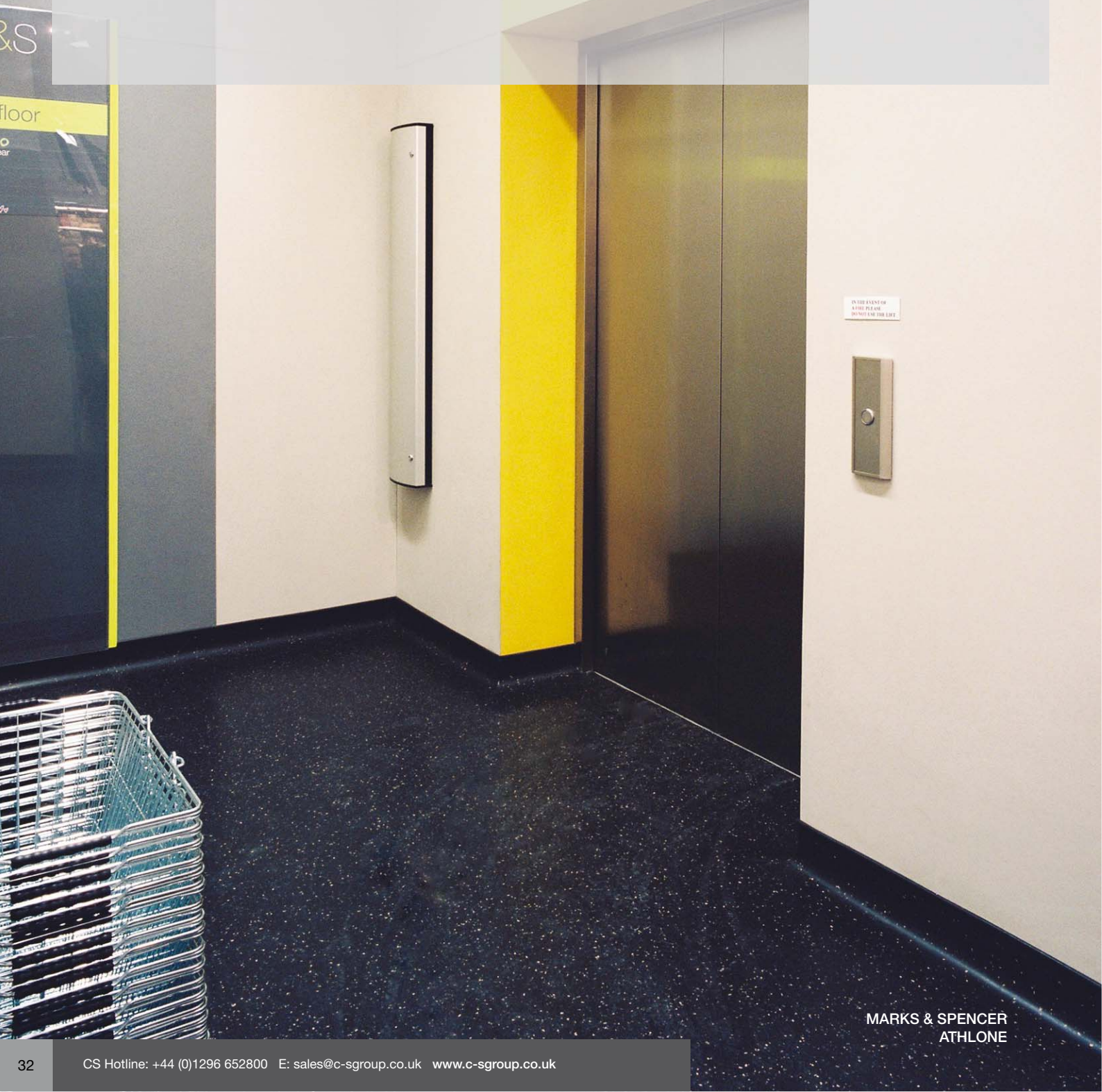


ACROVYN® WALL PANELS

Where heavy duty wall protection is required, Acrovyn® Wall Panels can be utilised.

Produced to custom sizes and specifications by applying impact resistant Acrovyn® Sheet to a rigid board, they can be used to provide a very durable and easy to maintain surface to the entire wall, or just to dado height.

Available in a wide range of colours to suit project's aesthetic requirements, our panels are designed to withstand high traffic abuse, keeping walls beautiful and damage free.

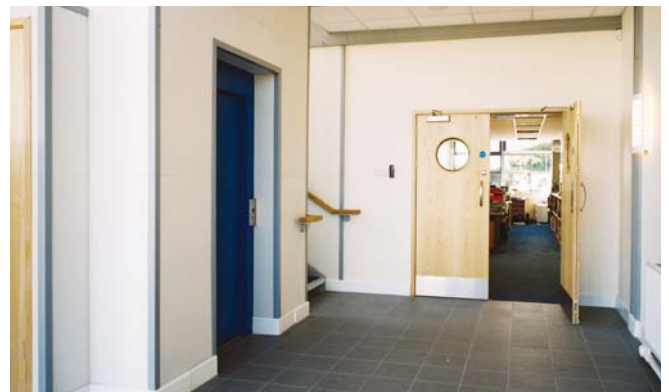


MARKS & SPENCER
ATHLONE

FEATURES AND BENEFITS



- Wall Panels comprising impact resistant Acrovyn or Acrovyn 4000 Sheet laminated to a rigid board
- High impact resistance to prevent damage to walls in busy circulation areas
- Through-coloured panel facing hides the effects of impact and abrasion
- Choice of edge options and panel cores to suit project requirements
- Manufactured to custom sizes
- Available in a wide range of solid colours, Faux Wood and Faux Metal finishes to complement any design scheme
- Designed to be fitted directly to a wall substrate for permanent application



FINISHES AND SIZES

To give you the freedom to create bespoke interior environments, our Wall Panels can be specified in any of Acrovyn or Acrovyn 4000 solid sheet colours.

SURFACE FINISHES

- Acrovyn Sheet (2mm) - Pebblette texture ▶ 16-19
- Acrovyn Hydroclad (2mm) - Smooth ▶ 24-27
- Acrovyn 4000 Sheet (1.5mm) - Suede texture ▶ 20-23

COLOURS

- Acrovyn Sheet - 30 solid colours ▶ 18-19
- Acrovyn Hydroclad - 5 solid colours ▶ 26
- Acrovyn 4000 Sheet - 30 solid colours ▶ 22-23

PANEL CORE OPTIONS

Acrovyn Wall Panels are supplied with 9mm thick MDF as standard. Panels utilising moisture resistant boards, or boards fire tested in accordance with BS EN 13501-1:2007+A1:2009 can also be supplied.

SIZES

- Wrapped panels (all finishes) - max. 2400mm x 1200mm
- Unfinished panels:
 - Acrovyn Sheet - max. 2430mm x 1210mm
 - Acrovyn 4000 Sheet - max. 2430mm x 1220mm
 - Acrovyn Hydroclad - max. 3040mm x 1210mm

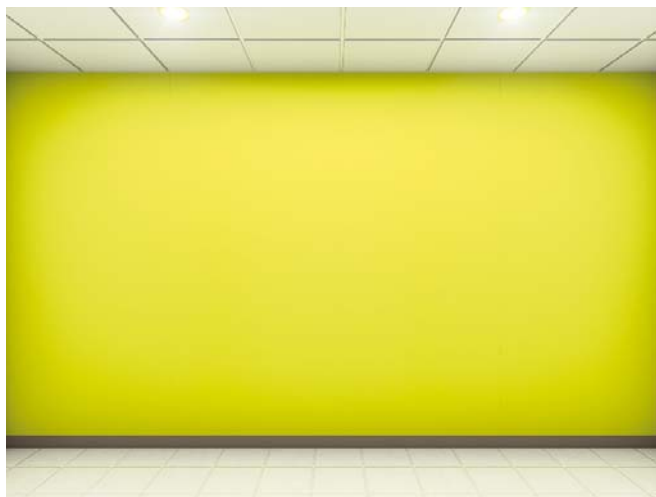


www.c-sgroup.co.uk/835

ACROVYN® WALL PANELS

LAYOUT OPTIONS

Acrovyn Wall Panels can be incorporated into a variety of designs to provide a durable protection and impact resistant surface to full wall height or part of the wall*.



* For the most cost effective solution, dado height applications often utilise full size panels wrapped on two sides and installed in a landscape orientation.

EDGE OPTIONS

Acrovyn Wall Panels can be supplied with three edge options to suit installation requirements:



Square wrapped on two sides



Fully wrapped



Unfinished

INSTALLATION AND JOINTING OPTIONS

Our Wall Panels are designed to be fitted directly to a wall substrate using a high build construction adhesive for a permanent fix.

To achieve a long term bond, the substrate needs to be dry and sound, but panels can hide a multitude of wall imperfections.

JOINTING

- **Butt Joints**

In temperature controlled environments, or areas where temperature fluctuations are minimal, panels can be butt jointed. The material must be acclimatised at the room temperature prior to the installation.

- **Mastic Joints**

Where temperature changes are expected, we recommend a 2mm gap is left between panels to allow for expansion and contraction of material. The gap can be filled in with CS Mastic in a matching or contrasting colour.



Acrovyn Panels can be butt jointed in temperature controlled environments.



A 2mm expansion gap is recommended in locations where temperature will vary. CS colour matched mastic can be used to provide a continuous surface.



ACROVYN® DOOR AND FRAME PROTECTION

Doors and door frames are two of the building components most vulnerable to damage and will often require periodic maintenance or replacement throughout the life of the building.

Reduce maintenance and replacement costs by using Acrovyn® door and door frame protection. Built up from a series of plates, channels and angles, or thermoformed sections, to suit bespoke project requirements and sizes, our protection solutions can accommodate different door and frame styles.

Compliance with Approved Document M requirements for visual contrast is easily achievable using our wide selection of colours and finishes.

DIANA, PRINCESS OF WALES HOSPITAL
GRIMSBY

DOOR CLADDING



Our door cladding solutions create a highly durable door finish for extended lifecycle and reduced maintenance costs.

- Manufactured from 2mm Acrovyn Sheet to project specific sizes
- Options include:
 - Large size channels or angles to ensure door edges and faces are protected
 - Full height protection to both sides and edges of door
 - Partial height protection for one or both sides of door
 - Door edge channels for recess mounting into door edge/s (square or round edge channels can be supplied)*

COLOURS

Acrovyn - 30 solid colours ▶ 18-19

- * Where plates are required in addition to door edge channels, in order to protect door faces, they can be finished as follows:
 - with a Bullnose Edge for overlapping the door edge protector channels on door faces
 - with a Square Edge for butting to door edge protector channels on rebated door faces

NOTE: Due to the thickness of Acrovyn Sheet, it is recommended that on the push side of the door plates are either fitted between the door stops, or rebated into the door face.



www.c-sgroup.co.uk/2575

DOOR EDGE PROTECTORS



Simple to install, cost effective solution, for protecting edges of new and existing doors from impact damage.

- Manufactured from 2mm Acrovyn Sheet and incorporating 8mm thick internal Acrovyn lipping and concealed fixing
- Suitable for 30min or 60min fire rated and non-fire rated doors in a wide range of door constructions*
- Supplied with fire and/or smoke seals
- Available in widths to suit 44mm to 54mm thick doors
- Formed to suit radiused door edges
- Standard height 2100mm

COLOURS

Acrovyn - 30 solid colours ▶ 18-19

- * Acrovyn Door Edge Protectors have been tested and assessed to BS 476-22:1987 achieving in excess of 30min and 60min fire resistance when tested as part of timber based fire door assemblies. Chiltern International Fire Ltd test reports RF11059, RF11061 and assessments ChiltA11129 and ChiltA11130 refer.

Where smoke seals are incorporated to provide cold smoke control, the smoke seal elements have been independently tested to BS 476-31.1:1983 and have achieved leakage rates not exceeding 3m³/m/hr when tested at 25 Pa.

NOTE: Acrovyn Door Edge Protectors are designed and tested for use with fire door assemblies of proven fire resistance to current BS and EN test methods. They are not intended to upgrade non-fire rated door assemblies to fire resisting assemblies.



www.c-sgroup.co.uk/2579

NOTE: CS Door Edge Protectors are manufactured under license from Harrison Thompson and Company Limited (T/A Yeoman Shield) and Lorient Polyproducts Limited (patent no. GB 2 330 855 B applies) using CS Acrovyn Sheet.

KICK PLATES AND PUSH PLATES



Simple, economical solution for protecting the most used and vulnerable areas of new or existing doors.

- Manufactured to customer specified sizes* from 2mm Acrovyn Sheet or 1.5mm Acrovyn 4000 Sheet
- Square edged on all four sides as standard
- Bullnose edges can be supplied on request
- Standard shapes include: rectangular, 'Horizon' or 'Wave'
- Custom shapes available on request

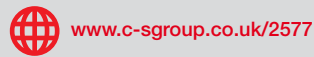
COLOURS

Acrovyn - 30 solid colours ▶ 18-19

Acrovyn 4000 - 30 solid colours ▶ 22-23

* HBN 00-04 requires kick plates to be min 400mm high in healthcare facilities

NOTE: Due to the thickness of Acrovyn Sheet, it is recommended that on the push side of the door plates are either fitted between the door stops, or rebated into the door face.



DOOR FRAME PROTECTION



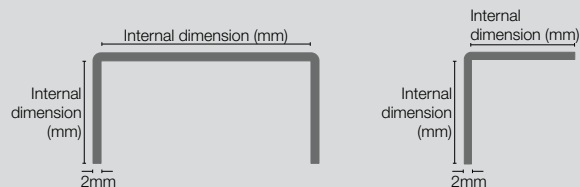
An effective protection solution to vulnerable timber door frames and architraves.

- Made to customer specified sizes from 2mm Acrovyn Sheet
- Built up from a series of channel and angle sections to provide full frame or architrave protection
- Full or partial height protection can be supplied
- Channels can be supplied to suit square or rounded edge sections

COLOURS

Acrovyn - 30 solid colours ▶ 18-19

Note: The thickness of Acrovyn Sheet should be taken into account in calculation of sizes. Please supply the internal dimensions of the frame protection required:





CS ACROVYN DOORS

For high traffic areas, where damage to doors and frames is regular and significant, we offer tough and easy to maintain post-formed or fully encapsulated **CS Acrovyn Doors**.

Available in a wide range of options and configurations to satisfy performance and aesthetic requirements. Fire Doors (30min and 60min) can be supplied with a third party BM TRADA Q-Mark certification.



www.c-sgroup.co.uk/2635



Way Out

→ ACROVYN® HANDRAILS

Designed to provide mobility support, CS Acrovyn® handrails offer comfort, style and functionality, as well as being compliant with BS 8300 and Approved Document M.

With a wide range of colours and finishes on offer, Acrovyn® handrails can contrast with any background wall colour to help visually impaired people navigate around a building.

For a premium finish, choose our sustainable timber handrails with stainless steel accessories. In areas where hygiene is the primary consideration, our stainless steel model will provide a hygienic, easy clean surface.



TAMESIDE GENERAL HOSPITAL
ASHTON-UNDER-LYNE

HR6S HANDRAIL



Durable, impact resistant handrail offering pedestrian support. BS 8300:2001 and Approved Document M compliant

- Available in standard Acrovyn only
- 45mm ø handrail with Acrovyn cover
- Continuous aluminium retainer for comfortable grip and strength
- Mounted on sturdy stainless steel brackets
- Grooveless circular aluminium retainer for ease of cleaning



COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

- Acrovyn return to wall End Caps
- Acrovyn External Corners
- Acrovyn Internal Corners



www.c-sgroup.co.uk/373

HR6S



STOCK LENGTHS 4.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HR6CS-N HANDRAIL



Durable Acrovyn 4000 handrail for use in public access areas. BS 8300:2001 and Approved Document M compliant

- Available in Acrovyn 4000 only
- 40mm ø handrail with Acrovyn 4000 cover
- Continuous aluminium retainer for comfortable grip and strength
- Mounted on sturdy stainless steel brackets
- Grooveless circular aluminium retainer for ease of cleaning
- **NEW:** Faux Wood finishes combining the warm look of timber with durability and ease of maintenance



COLOURS

Acrovyn 4000 - 8 solid colours ▶ 71

Acrovyn 4000 Faux Wood finishes - 5 options ▶ 71

ACCESSORIES

- Acrovyn return to wall End Caps
- Acrovyn External Corners
- Acrovyn Internal Corners



www.c-sgroup.co.uk/374

HR6CS-N



STOCK LENGTHS 3.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HRWS6C HANDRAIL



Solid timber handrail offering a luxury feel and natural look. BS 8300:2001 and Approved Document M compliant

- 40mm \varnothing solid timber handrail for comfortable grip
- Stainless steel accessories for a sleek and modern look
- Mounted on sturdy stainless steel brackets
- Supplied unfinished for finishing on site as standard. Can be supplied pre-lacquered and pre-finished to customer surveyed lengths at an additional charge



light duty

AVAILABLE IN

Timber - Ash, White Oak, Beech or Maple ▶ 71

All our timber comes from sustainable sources and carries FSC or PEFC certification.

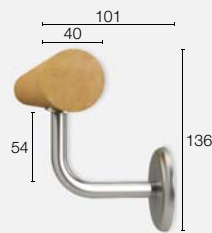
ACCESSORIES

- Stainless Steel return to wall End Caps
- Stainless Steel External Corners
- Stainless Steel Internal Corners



www.c-sgroup.co.uk/381

HRWS6C



STOCK LENGTHS 3.0-3.6m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HRSS6C HANDRAIL



Highly durable stainless steel handrail for use in areas where hygiene is of particular concern, or where a modern, sleek look is required. BS 8300:2001 and Approved Document M compliant

- 40mm \varnothing stainless steel handrail with stainless steel accessories
- Mounted on sturdy stainless steel brackets
- Supplied prefabricated to surveyed lengths with welded End Caps for fast and easy installation



light duty

AVAILABLE IN

Satin polished Grade 304 Stainless Steel

ACCESSORIES

- Stainless Steel return to wall End Caps
- Stainless Steel External Corners
- Stainless Steel Internal Corners



www.c-sgroup.co.uk/376

HRSS6C



LENGTHS To cutting schedule from stock lengths of max 3.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended



ACROVYN® HAND/CRASH RAILS

Elegant and ergonomically designed, Acrovyn® hand/crash rails provide impact protection and pedestrian support in circulation areas. They are available in a variety of styles to suit aesthetic and functional requirements, and include anti-ligature solutions.

Through-coloured, textured covers hide the effects of impact damage or abrasion, and are easy to clean. Top handrail sections on most models can be specified in a contrasting colour for visual guidance, a Faux Wood finish, or solid timber for a luxurious feel and look.



NORTH DEVON DISTRICT HOSPITAL
BARNSTAPLE

HRB20 SERIES HAND/CRASH RAILS



Stylish combined hand/crash rail, designed to withstand severe duty impact in busy circulation routes

- Oval Acrovyn handrail for 335° grip surface and Acrovyn crashrail over aluminium retainer
- Two piece cover can be supplied in matched or mixed colours for visual contrast. **NEW:** Handrail covers are now also available in a selection of Faux Wood finishes
- Continuous shock-absorbing cushion for increased impact protection
- Rapid Fix bracket for fast installation and easy maintenance
- Anti-ligature model features continuous powder coated aluminium bracket



severe duty



rapid fix



acrovyn 4000

PRODUCT CODES

	Rapid Fix	Anti-ligature
Acrovyn	HRB20	HRB20AL
Acrovyn 4000	HRB20-N	HRB20AL-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

Acrovyn 4000 Faux Wood (handrail only) - 5 finishes ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners



www.c-sgroup.co.uk/134

RAPID FIX



ANTI-LIGATURE



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HRBW20 SERIES HAND/CRASH RAILS



Robust hand/crash rail combining solid timber and Acrovyn for high performance and a premium finish

- Oval timber handrail for 335° grip surface combined with Acrovyn crashrail over two-piece aluminium retainer
- Continuous shock-absorbing cushion for increased impact protection
- Rapid Fix bracket for fast installation and easy maintenance
- Anti-ligature model features continuous powder coated aluminium bracket
- Timber handrail supplied unfinished for finishing on site. Can be supplied pre-lacquered and prefabricated to customer surveyed lengths at an additional charge



severe duty



rapid fix



acrovyn 4000

PRODUCT CODES

	Rapid Fix	Anti-ligature
Acrovyn	HRBW20	HRBW20AL
Acrovyn 4000	HRBW20-N	HRBW20AL-N

COLOURS

Timber handrail - Ash, Oak, Beech or Maple ▶ 71

Acrovyn (crashrail) - 27 colours ▶ 70

Acrovyn 4000 (crashrail) - 8 solid colours ▶ 71

ACCESSORIES

- Timber/Acrovyn End Caps
- Timber/Acrovyn External Corners



www.c-sgroup.co.uk/150

RAPID FIX



ANTI-LIGATURE

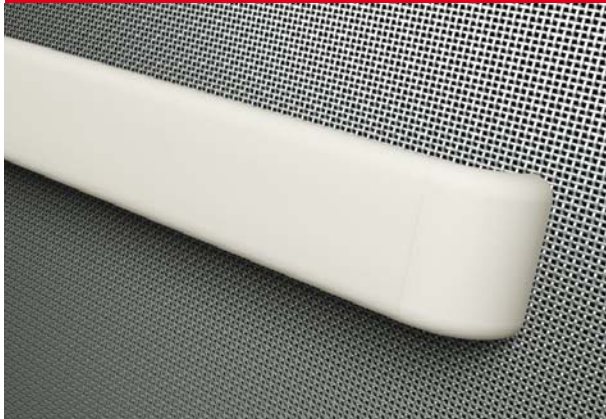


* All timber comes from sustainable sources and carries FSC or PEFC certification

STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m / Timber: up to 3.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HRB4C SERIES HAND/CRASH RAILS



Combined hand/crash rail in a classic, flat profile, offering severe duty impact protection and mobility support

- Single piece Acrovyn cover over aluminium retainer
- Free floating design flexes on impact
- Continuous shock-absorbing cushion for increased impact protection
- Rapid Fix bracket for fast installation and easy maintenance
- Anti-ligature option features continuous powder coated aluminium bracket



severe duty



rapid fix



acrovyn 4000

PRODUCT CODES

	Rapid Fix	Anti-ligature
Acrovyn	HRB4C	HRB4CAL
Acrovyn 4000	HRB4C-N	HRB4CAL-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners

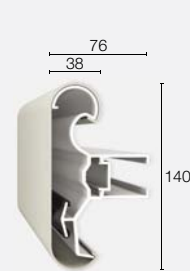


www.c-sgroup.co.uk/371

RAPID FIX



ANTI-LIGATURE



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

FIXING Max. 800mm centres; fixing into studwork or pattresses is recommended

HRBC50 COMBINED HANDRAIL AND CRASHRAIL



Approved Document M compliant handrail and curved crashrail, mounted on a single bracket, offering mobility support and reliable wall protection in circulation areas

- 40mm ø handrail with Acrovyn 4000 cover over aluminium retainer
- 125mm high crashrail with curved Acrovyn cover over continuous aluminium retainer and shock-absorbing cushion for increased impact protection
- Mounted on sturdy stainless steel brackets



heavy duty



acrovyn 4000

PRODUCT CODES

Acrovyn 4000 handrail / Acrovyn crashrail	Acrovyn 4000 handrail / Acrovyn 4000 crashrail
HRBC50	HRBC50-N

COLOURS

Acrovyn crashrail - 27 solid colours ▶ 70

Acrovyn 4000 handrail / crashrail - 8 solid colours ▶ 71

Acrovyn 4000 Faux Wood (handrail only) - 5 finishes ▶ 71

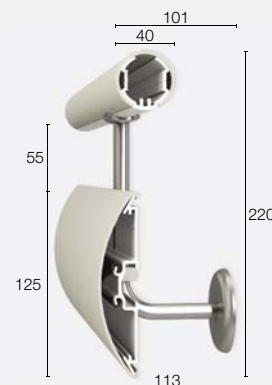
ACCESSORIES

- Acrovyn return to wall End Caps
- Acrovyn External Corners
- Acrovyn Internal Corners also available for handrail



www.c-sgroup.co.uk/369

STANDARD BRACKET



STOCK LENGTHS

Acrovyn crashrail: 4.0m
Acrovyn 4000 handrail / crashrail: 3.0m
Acrovyn 4000 Faux Wood handrail covers: 3.0m

FIXING

Max. 800mm centres; fixing into studwork or pattresses is recommended



HRB50 COMBINED HANDRAIL AND CRASHRAIL



Approved Document M compliant handrail and curved crashrail, mounted on a single bracket, offering mobility support and reliable wall protection in circulation areas

- 45mm ø handrail with Acrovyn cover over aluminium retainer
- 125mm high crashrail with curved Acrovyn cover over continuous aluminium retainer and continuous shock-absorbing cushion for increased impact protection
- Mounted on sturdy stainless steel brackets



COLOURS

Acrovyn handrail / crashrail - 27 solid colours ▶ 70

ACCESSORIES

- Acrovyn return to wall End Caps
- Acrovyn External Corners
- Acrovyn Internal Corners also available for handrail



www.c-sgroup.co.uk/369

HRB50



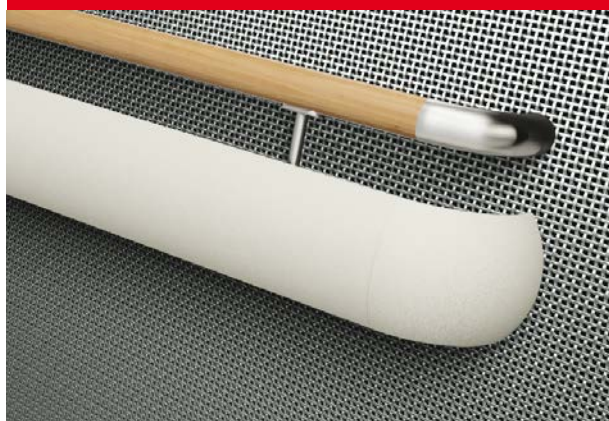
STOCK LENGTHS

Acrovyn handrail / crashrail: 4.0m

FIXING

Max. 800mm centres; fixing into studwork or pattresses is recommended

HRBW50 COMBINED HANDRAIL AND CRASHRAIL



Stylish combination of timber handrail with stainless steel accessories and impact resistant Acrovyn crashrail, offering Approved Document M compliant mobility support and durable wall protection

- 40mm ø solid timber handrail with stainless steel End Caps
- 125mm high crashrail with curved Acrovyn cover over continuous aluminium retainer and continuous shock-absorbing cushion for increased impact protection
- Mounted on sturdy stainless steel brackets



PRODUCT CODES

Timber handrail/Acrovyn crashrail	Timber handrail/Acrovyn 4000 crashrail
HRBW50	HRBW50-N

COLOURS

Timber handrail*: Ash, White Oak, Beech or Maple ▶ 71

Crashrail: Acrovyn - 27 solid colours ▶ 70

Crashrail: Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Handrail: stainless steel return to wall End Caps; stainless steel External/Internal Corners
- Crashrail: Acrovyn return to wall End Caps and External Corners



www.c-sgroup.co.uk/369

STANDARD BRACKET



STOCK LENGTHS

Timber handrail: 3.0-3.6m

Acrovyn crashrail: 4.0m

Acrovyn 4000 crashrail: 3.0m

FIXING

Max. 800mm centres; fixing into studwork or pattresses is recommended

* All timber comes from sustainable sources and carries FSC or PEFC certification

28

← Ystafelloedd 1-40
Rooms



Profion Ysgyfaint
Lung Tests



Profion Gwaed
Blood Tests



ACROVYN® CRASHRAILS

Designed to disperse impact energy along the length of the hidden cushions - without compromising the wall fixings - Acrovyn® crashrails provide a cost-effective damage protection solution just where you need it.

Durable Acrovyn® profiles are available in a wide range of styles, heights, stand-offs and colours to suit all aesthetic and functional requirements.

Textured and through-coloured covers effectively hide the effects of impact damage or abrasion, and are easy to clean to help maintain the appearance of interior walls.



TUNBRIDGE WELLS PFI HOSPITAL
PEMBURY

SCR80 SERIES CRASHRAILS



Curved profile crashrails offering a modern aesthetic and extensive impact protection for high traffic areas

- Acrovyn cover over continuous aluminium retainer
- Free-floating design flexes on impact
- Continuous shock-absorbing cushion for increased impact protection
- Three mounting options to suit project requirements



heavy duty



rapid fix



acrovyn 4000

PRODUCT CODES

	Surface Mount	Cushion Mount	Rapid Fix
Acrovyn	SCR80	BCR80	ECR80
Acrovyn 4000	SCR80-N	BCR80-N	ECR80-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners
- Acrovyn return to wall End Caps for Rapid Fix option



www.c-sgroup.co.uk/384

SURFACE MOUNT



CUSHION MOUNT



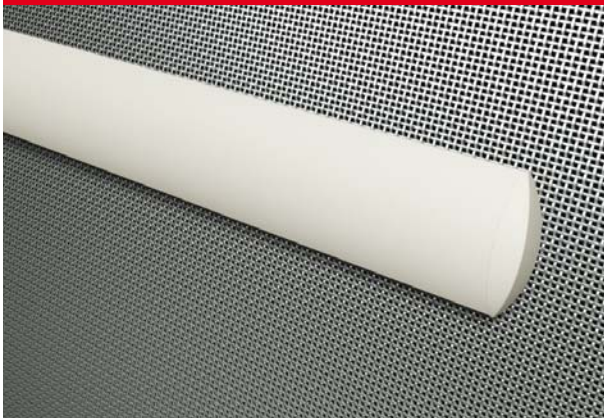
RAPID FIX



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

FIXING Max. 600mm centres; Rapid Fix options use staggered brackets. Fixing into studwork or pattresses recommended

SCR50 SERIES CRASHRAILS



Slimline crashrails in curved profile offering heavy duty protection for areas prone to impact damage

- Acrovyn cover over continuous aluminium retainer
- Free-floating design flexes on impact
- Continuous shock-absorbing cushion for increased impact protection
- Two mounting options to suit project requirements



heavy duty



acrovyn 4000

PRODUCT CODES

	Surface Mount	Cushion Mount
Acrovyn	SCR50	BCR50
Acrovyn 4000	SCR50-N	BCR50-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners

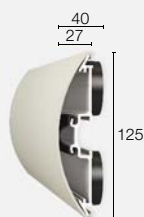


www.c-sgroup.co.uk/387

SURFACE MOUNT



CUSHION MOUNT



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

FIXING Max. 600mm centres; fixing into studwork or pattresses recommended for Rapid Fix options

SCR200 SERIES CRASHRAILS



Heavy duty classic flat style crashrails designed to prevent wall damage in busy facilities

- Available in standard Acrovyn only
- Acrovyn cover over continuous aluminium retainer
- Free-floating design flexes upon impact
- Two continuous shock-absorbing cushions for additional impact protection
- Three mounting options to suit project requirements



heavy duty



rapid fix

PRODUCT CODES

	Surface Mount	Cushion Mount	Rapid Fix
Acrovyn	SCR200	BCR200	ECR200

COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners
- Acrovyn return to wall End Caps for Rapid Fix option



www.c-sgroup.co.uk/2524

SURFACE MOUNT



CUSHION MOUNT



RAPID FIX



STOCK LENGTHS Acrovyn: 4.0m

FIXING Max. 600mm centres; Rapid Fix option uses staggered brackets. Fixing into studwork or pattresses recommended

HCR200 CRASHRAIL



Severe duty crashrail for areas prone to extensive impact damage from heavily laden trolleys, cages etc.

- Available in standard Acrovyn only
- Acrovyn cover over continuous aluminium retainer
- Free-floating design flexes upon impact
- Three continuous shock-absorbing cushions for ultimate impact protection
- Rapid Fix mounting brackets for fast installation and easy maintenance



severe duty



rapid fix

COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

- Acrovyn return to wall End Caps
- Acrovyn External Corners

HCR200



STOCK LENGTHS Acrovyn: 4.0m

FIXING Staggered fixings at max. 600mm centres; fixing into studwork or pattresses recommended



www.c-sgroup.co.uk/2534



CR200 CRASHRAIL



Economy option 203mm high crashrail offering impact protection to vulnerable walls and helping to reduce maintenance costs

- Available in standard Acrovyn only
- Acrovyn cover mounted over aluminium clips
- Free-floating design flexes upon impact
- Two continuous shock-absorbing cushions for added impact protection



COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners

CR200



STOCK LENGTHS 4.0m
FIXING Max. 600mm centres



www.c-sgroup.co.uk/2532

SCR150-N SERIES CRASHRAILS



Classic design crashrails providing heavy duty impact protection for areas vulnerable to damage

- Available in Acrovyn 4000 only
- Acrovyn cover over continuous aluminium retainer
- Free-floating design flexes upon impact
- Internal continuous shock-absorbing cushion for added protection
- Three mounting options for varying stand-offs



PRODUCT CODES

	Surface Mount	Cushion Mount	Rapid Fix
Acrovyn 4000	SCR150-N	BCR150-N	ECR150-N

COLOURS

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners
- Acrovyn return to wall End Caps for Rapid Fix option

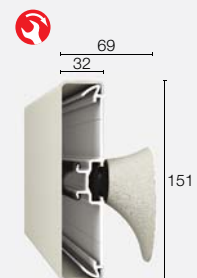
SURFACE MOUNT



CUSHION MOUNT



RAPID FIX



STOCK LENGTHS 3.0m

FIXING Max. 600mm centres; fixing into studwork or pattresses recommended for Rapid Fix option



www.c-sgroup.co.uk/389



↑ BARS
→ CHAMBERS
→ TOILETS

CR150-N CRASHRAIL



Economy version 151mm high crashrail mounted to wall surface to protect from daily wear and tear or impact damage

- Available in Acrovyn 4000 only
- Acrovyn cover mounted over aluminium clips
- Free-floating design flexes upon impact
- Internal continuous shock-absorbing cushion for added impact protection



medium duty



acrovyn 4000

COLOURS

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners

CR150-N



STOCK LENGTHS 3.0m

FIXING Max. 600mm centres



www.c-sgroup.co.uk/2531

BG10 BUMPER RAIL



Bullnose style bumper rail designed to keep wheeled traffic away from the wall. Suitable for use on its own or in combination with handrails or other crashrails

- Acrovyn cover over continuous aluminium retainer
- Large bullnose profile flexes for maximum bumper action protection
- Installed on mounting cushions for additional wall protection



medium duty



acrovyn 4000

PRODUCT CODES

Acrovyn	Acrovyn 4000
BG10	BG10-N

COLOURS

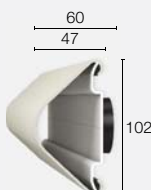
Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners

CUSHION MOUNT



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

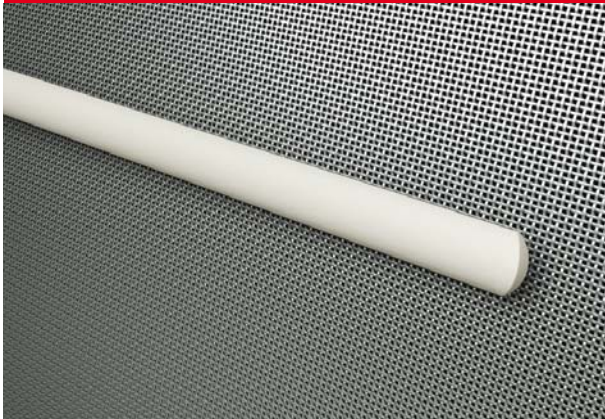
FIXING Max. 600mm centres



www.c-sgroup.co.uk/2535



FR225 RUB RAIL



Surface mounted rub rails offering lightweight, discreet and cost effective protection for walls and doors

- Acrovyn cover over continuous aluminium retainer
- Low profile crescent shape
- Free floating design flexes on impact



light duty



acrovyn 4000

PRODUCT CODES

Acrovyn	Acrovyn 4000
FR225	FR225-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

- Acrovyn End Caps
- Acrovyn External Corners



www.c-sgroup.co.uk/388

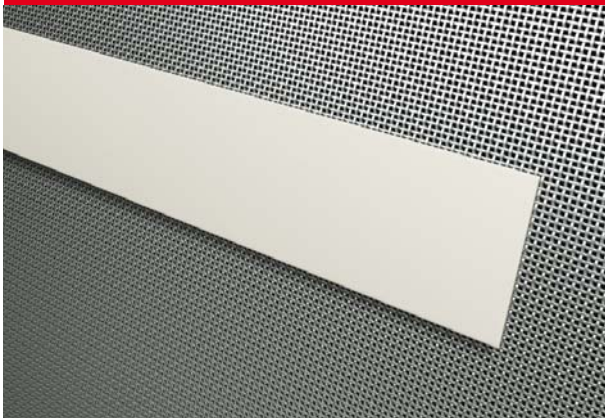
SURFACE MOUNT



STOCK LENGTHS Acrovyn: 4.0m / Acrovyn 4000: 3.0m

FIXING Max. 600mm centres

TP SERIES RUB RAILS



Light duty rub rails to maximise corridor space while offering reliable protection for walls and doors, against damage caused by pedestrian traffic, lightweight trolleys, chairs etc.

- Available in standard Acrovyn only
- Manufactured from 3mm thick textured and through-coloured material
- Bullnose edges mould profile to the wall
- Three heights to suit project requirements
- Installed using adhesive foam tape and construction adhesive
- Cost effective and simple to install



light duty

PRODUCT CODES

150mm high	200mm high	300mm high
TP150	TP200	TP300

COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

- Preformed External Corners can be supplied to order
- Can be supplied pre-fitted with adhesive foam tape
- Construction adhesive



www.c-sgroup.co.uk/390

SURFACE MOUNT



STOCK LENGTHS 3.0m

FIXING Installation using construction adhesive and adhesive foam tape



ACROVYN® CORNER GUARDS (SURFACE MOUNTED)

External corners in any building, are extremely vulnerable to damage, compromising appearance, hygiene and safety. Acrovyn® solutions keep corners intact, hygienic, and significantly reduce maintenance costs.

Corner guards are most effective when they are allowed to flex under impact, and many models in our range provide this feature. For unusual angles and economy solutions, consider our SCG and SCGv models. Where unobtrusive protection is required, our clear LG option provides a discreet look.

Surface mounted corner protection is also available in: STAINLESS STEEL ▶ 76 RUBBER ▶ 83



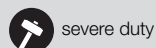
NAPIER UNIVERSITY
EDINBURGH

SM SERIES CORNER GUARDS



Severe duty corner guards preventing damage to corners from impact caused by wheeled traffic

- Acrovyn textured and through-colour snap-on cover
- Sturdy, continuous aluminium retainer
- Free-floating cover flexes on impact
- Sharp nose versions are available for 90° and 135° corners
- Bullnose version suits 90° corners
- Available in full or dado height



PRODUCT CODES

	Sharp nose - 90°	Sharp nose - 135°	Bullnose - 90°
Acrovyn	SM20	SM20 135°	SM10
Acrovyn 4000	SM20-N	SM20-N 135°	SM10-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

Supplied with adjustable Acrovyn top and bottom End Caps



www.c-sgroup.co.uk/2551

SHARP NOSE 90° CORNERS



SHARP NOSE 135° CORNERS



BULLNOSE 90° CORNERS



STOCK LENGTHS

Cut to required size from stock lengths:
SM20, SM10 - Acrovyn - 4.0m; Acrovyn 4000 - 3.0m;
SM20 135 - all 3.0m

FIXING Fix at staggered 400mm centres

SSM20 CORNER GUARD



Heavy duty corner protection designed to prevent unsightly damage to 90° corners

- Acrovyn textured and through-colour snap-on cover
- Sturdy, continuous aluminium retainer
- Free-floating cover flexes on impact
- Available in full or dado height



PRODUCT CODES

	90° Corners
Acrovyn	SSM20
Acrovyn 4000	SSM20-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

Supplied with adjustable Acrovyn top and bottom End Caps



www.c-sgroup.co.uk/398

90° CORNERS

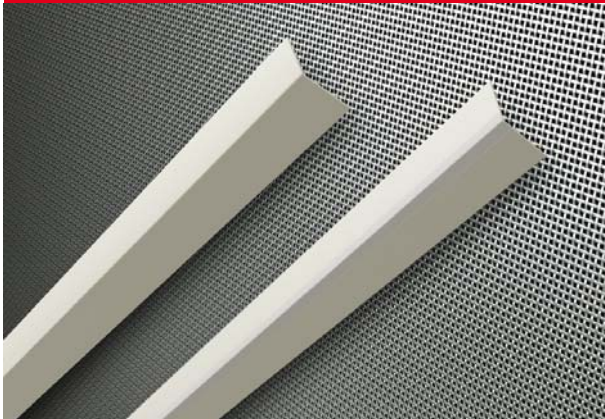


STOCK LENGTHS

Cut to required size from stock lengths:
Acrovyn - 4.0m; Acrovyn 4000 - 3.0m

FIXING Fix at staggered 400mm centres

SCG SERIES CORNER GUARDS



Simple to install and cost-effective solution offering medium duty protection from impacts, scuffs and abrasions

- Available in Acrovyn only
- SCG series offers a choice of two leg sizes (50mm or 75mm)
- SCGv co-extruded guard features flexible corner to fit irregular angles
- Quick and simple to install using self adhesive foam tape, construction adhesive or mechanical fixings
- Full and dado heights available



PRODUCT CODES

90° Corners - 50mm	90° Corners - 75mm	Irregular Corners
SCG50	SCG75	SCGv50

COLOURS

Acrovyn - 27 solid colours ▶ 70

ACCESSORIES

Can be supplied with or without double sided tape

SCG  www.c-sgroup.co.uk/3377

SCGv  www.c-sgroup.co.uk/3382

SCG 90° CORNERS



SCGv IRREGULAR CORNERS



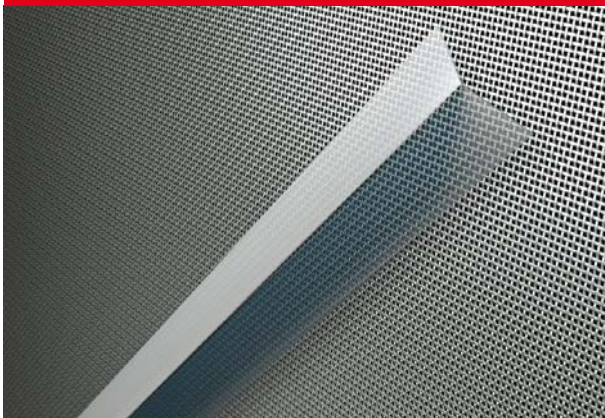
STOCK LENGTHS

Cut to required size from 3.0m stock lengths

FIXING

Installation using self adhesive foam tape (can be pre-fitted if required), construction adhesive or mechanical fixings

LG SERIES CORNER GUARDS



Transparent guards providing unobtrusive protection for external corners and allowing wall finishes to show through

- Ideal for protecting wallpaper or other decorative finishes without covering up the design
- Manufactured to project specific sizes from durable, clear polycarbonate
- To suit 90° corners
- Can be supplied in leg sizes up to 100mm, at max height of 2.44m
- Designed for surface mounting using dome head mirror screws
- Can be supplied pre-drilled



MATERIAL

Transparent polycarbonate

LG 90° CORNERS



STOCK LENGTHS

Cut to required size from 2.44m stock lengths

FIXING

Mechanical fixing using dome head mirror screws (by others)

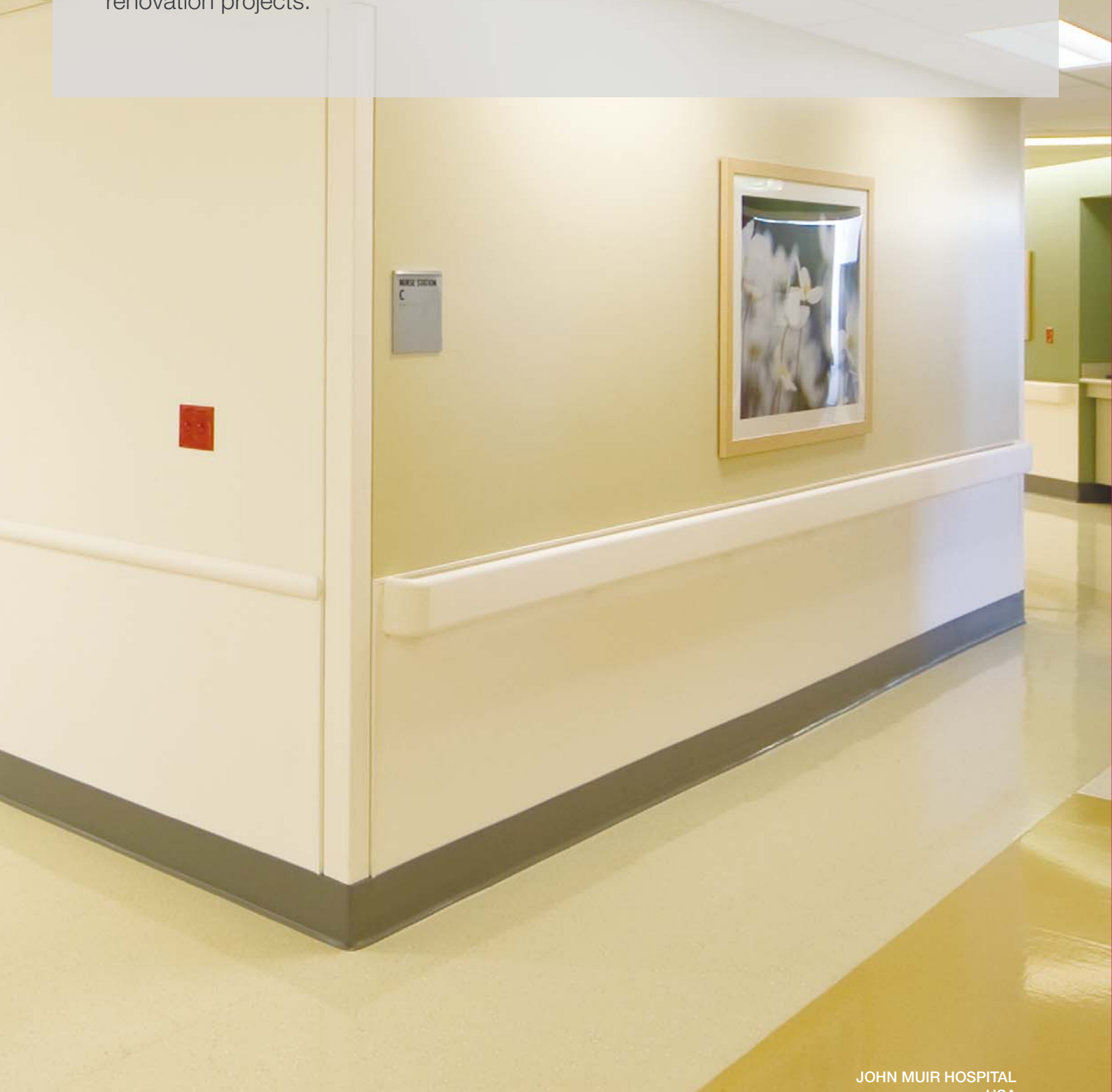
 www.c-sgroup.co.uk/402



ACROVYN® CORNER GUARDS (FLUSH MOUNTED)

Our flush mounted corner protectors offer a built-in feature which fits completely flush to the wall surface, and incorporate the same shock-absorbing, impact controlling properties as our surface mounted options with aluminium cores.

Designed to provide full height corner protection for 12.5mm plasterboard applications, these two-stage fix models are suited to new construction or major renovation projects.



JOHN MUIR HOSPITAL
USA

FS20 CORNER GUARD



Severe duty flush mounted corner guards suitable for 90° corner plasterboard applications

- Acrovyn cover over continuous flush mounted aluminium retainer
- Free-floating cover flexes on impact
- Suitable for 12.5mm plasterboard applications
- Plasterboard screws (by others) concealed by feathered joint cement
- NOTE: This is a two-stage fix product; aluminium retainer must be installed at the same time as plasterboard. Acrovyn covers are installed as part of second fix works



PRODUCT CODES

	90° Corners
Acrovyn	FS20
Acrovyn 4000	FS20-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

90° CORNERS



STOCK LENGTHS 3.0m

FIXING Fix at staggered 400mm centres



www.c-sgroup.co.uk/400

SFS20 CORNER GUARD



Heavy duty flush mounted corner guards suitable for 90° corner plasterboard applications

- Acrovyn cover over continuous flush mounted aluminium retainer
- Free-floating cover flexes upon impact
- Suitable for 12.5mm plasterboard applications
- Plasterboard screws (by others) concealed by feathered joint cement
- NOTE: This is a two-stage fix product; aluminium retainer must be installed at the same time as plasterboard. Acrovyn covers are installed as part of second fix works



PRODUCT CODES

	90° Corners
Acrovyn	SFS20
Acrovyn 4000	SFS20-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

90° CORNERS



STOCK LENGTHS 3.0m

FIXING Fix at staggered 400mm centres



www.c-sgroup.co.uk/397

ACROVYN® BED HEAD PROTECTION

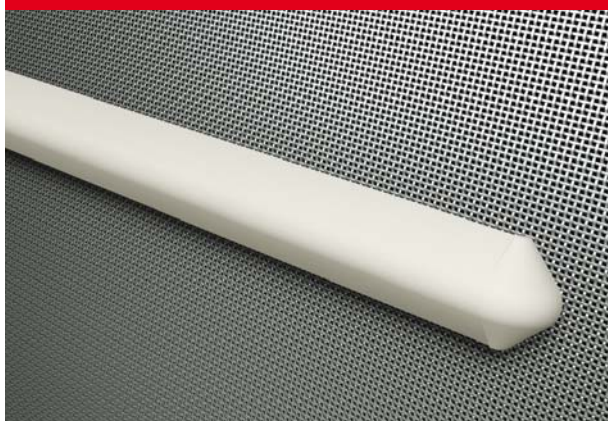
CS Bed Head Protectors are designed to protect walls from damage at bed head locations. Where medical equipment rails are mounted on walls behind beds, our stand-off bracket options will protect them from damage when bed positions or locations are altered.

Our range includes vertical and horizontal variants with stand-offs to suit project requirements, and is available in a wide range of colours to complement any room.



YSBYTY ANEURIN BEVAN HOSPITAL
EBBW VALE

BL10H SERIES BED HEAD PROTECTORS



Single horizontal bed head protector designed to protect wall and wall mounted equipment from damage caused by frequently moved beds

- Acrovyn cover over continuous aluminium retainer
- Shock-absorbing cover flexes on impact
- BL10H versions are installed on mounting cushions
- BL10HE models are fitted on custom length, powder coated aluminium brackets to hold beds away from the wall and wall mounted equipment
- Supplied pre-cut with End Caps and mounting brackets/cushions for fast and easy installation



medium duty



acrovyn 4000

PRODUCT CODES

	Cushion Mount	Extended Brackets
Acrovyn	BL10H	BL10HE
Acrovyn 4000	BL10H-N	BL10HE-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

Profiles supplied pre-cut, with Acrovyn End Caps and mounting cushions/brackets as required

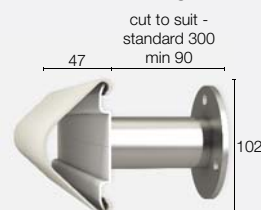


www.c-sgroup.co.uk/2565

CUSHION MOUNT



EXTENDED BRACKET



LENGTHS 1100mm standard (inc. End Caps); 1600mm maximum
Extended brackets - 300mm long, or can be cut to suit (min. 90mm)

FIXING Fix at max. 400mm centres; fixing to studwork or pattresses recommended, particularly for extended bracket variants

BL10V SERIES BED HEAD PROTECTORS



Pairs of vertical bed head protectors designed for applications where bed heights are frequently adjusted

- Acrovyn cover over continuous aluminium retainer
- Shock-absorbing cover flexes on impact
- BL10V versions are installed on mounting cushions
- BL10VE models are fitted on custom length, powder coated aluminium brackets to hold beds away from the wall and wall mounted equipment
- Supplied pre-cut with End Caps and mounting brackets/cushions for fast and easy installation



medium duty



acrovyn 4000

PRODUCT CODES

	Cushion Mount	Extended Brackets
Acrovyn	BL10V	BL10VE
Acrovyn 4000	BL10V-N	BL10VE-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

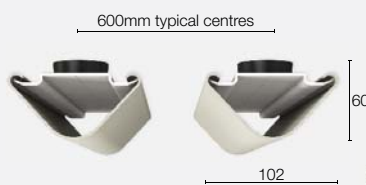
ACCESSORIES

Profiles supplied pre-cut, with Acrovyn End Caps and mounting cushions/brackets as required



www.c-sgroup.co.uk/2568

CUSHION MOUNT



EXTENDED BRACKET



HEIGHT 750mm standard (inc. End Caps);
Extended brackets - 300mm long, or can be cut to suit (min. 90mm)

FIXING Fix at max. 400mm vertical centres; fixing into studwork or pattresses recommended, particularly for extended bracket variants

BL4C SERIES BED HEAD PROTECTORS



Pairs of vertically mounted protectors offering severe duty protection for locations where beds are often moved

- Acrovyn cover over continuous aluminium retainer
- Free-floating cover flexes on impact
- Continuous shock-absorbing cushion for increased impact protection
- BL4C versions are mounted on Rapid Fix brackets
- BL4CE models are fitted on custom length, powder coated aluminium brackets to hold beds away from the wall and wall mounted equipment
- Supplied pre-cut with End Caps and mounting brackets/cushions for fast and easy installation



severe duty



rapid fix



acrovyn 4000

PRODUCT CODES

	Rapid Fix	Extended Brackets
Acrovyn	BL4C	BL4CE
Acrovyn 4000	BL4C-N	BL4CE-N

COLOURS

Acrovyn - 27 solid colours ▶ 70

Acrovyn 4000 - 8 solid colours ▶ 71

ACCESSORIES

Profiles supplied pre-cut, with Acrovyn End Caps and mounting cushions/brackets as required



www.c-sgroup.co.uk/2571

RAPID FIX



EXTENDED BRACKETS



HEIGHT 750mm standard (inc. End Caps)
Extended brackets - 300mm long, or can be cut to suit (min. 90mm)

FIXING Fix at max. 400mm vertical centres; fixing into studwork or pattresses recommended

FLAT BED HEAD PROTECTION



Acrovyn Sheet or Acrovyn by Design can be installed behind beds to provide a budget protection solution and/or a bespoke decorative wall finish

- Used on projects where bed head protectors cannot be fixed to the wall, damage to wall mounted equipment is not an issue, or a decorative finish and more domestic look is required
- Available in a wide range of colours or finishes, or can incorporate bespoke artwork
- Cut to size to suit project requirements
- Economical and easy to install



acrovyn 4000

COLOURS

Acrovyn - 30 solid colours ▶ 18-19

Acrovyn Faux Wood - 6 finishes ▶ 18

Acrovyn Faux Metal - 3 finishes ▶ 18

Acrovyn 4000 - 30 solid colours ▶ 22-23

Acrovyn by Design - bespoke imagery or colours ▶ 28-31

BESPOKE ARTWORK



SOLID BESPOKE COLOUR



ACROVYN SHEET
www.c-sgroup.co.uk/414



ACROVYN 4000 SHEET
www.c-sgroup.co.uk/8138

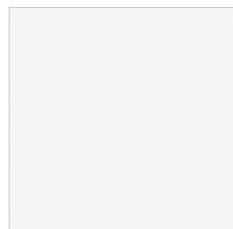


ACROVYN BY DESIGN
www.c-sgroup.co.uk/2636

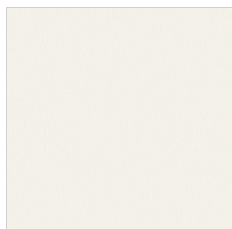


ACROVYN COLOURS FOR PROFILES

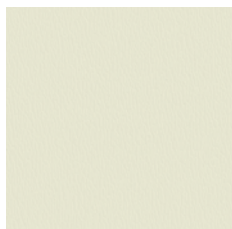
ACROVYN PROFILES



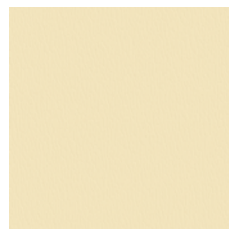
9003 Snow White
LRV* 78



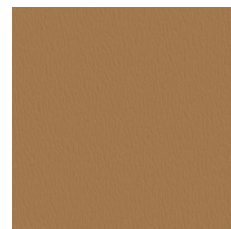
933 Mission White
LRV* 80



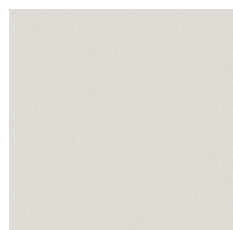
100 Eggshell
LRV* 73



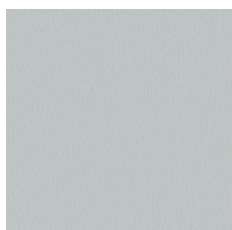
101 French Cream
LRV* 70



105 Mocha
LRV* 23



801 Grey Cloud
LRV* 64



24 Dove
LRV* 49



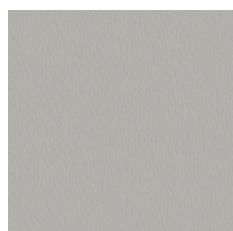
7039 Iron
LRV* 19



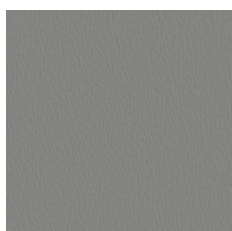
26 Taupe
LRV* 24



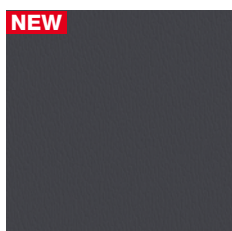
8019 Earth
LRV* 8



136 Pearl Grey
LRV* 39



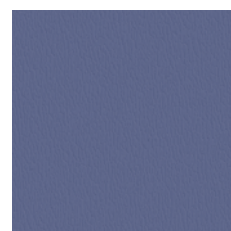
162 Charcoal
LRV* 22



7024 Graphite
LRV* 10



4005 Plum
LRV* 19



520 Imperial Purple
LRV* 17



16 Harvest Gold
LRV* 66



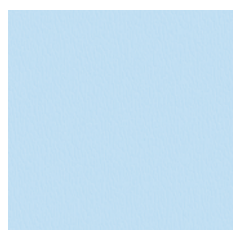
17 Sherbet
LRV* 47



845 Spectrum Red
LRV* 19



34 Zest
LRV* 55



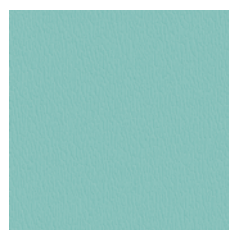
11 Alpine Blue
LRV* 50



112 Pacific Blue
LRV* 26



5018 Lagoon
LRV* 31



879 Dusty Jade
LRV* 35



12 Cobalt
LRV* 20



129 Yale Blue
LRV* 11

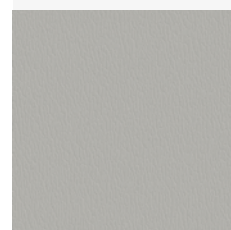


6033 Mint Turquoise
LRV* 24



23 Spring Green
LRV* 24

TEXTURE

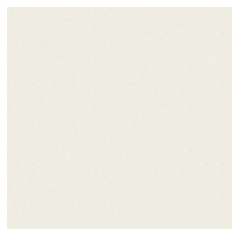


Pebblette
(Acrovyn Profiles)

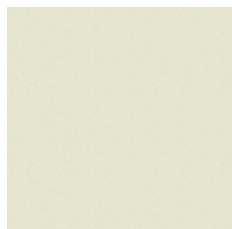
The texture of our Acrovyn Profiles' covers helps to conceal the effects of daily wear and tear, whilst providing an easy to clean surface.

ACROVYN 4000 PROFILES

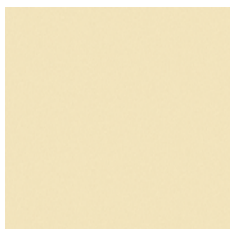
TEXTURE



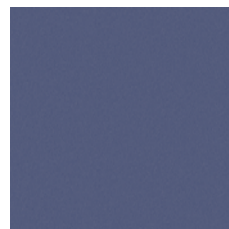
933 Mission White
LRV* 80



100 Eggshell
LRV* 73



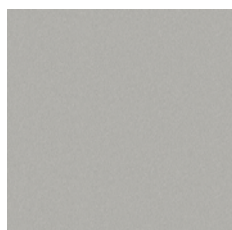
101 French Cream
LRV* 70



520 Imperial Purple
LRV* 17



Shadowgrain (Acrovyn 4000
Profiles - Solid & Faux Wood)



136 Pearl Grey
LRV* 39



162 Charcoal
LRV* 22



105 Mocha
LRV* 23



129 Yale Blue
LRV* 11

Shadowgrain texture of our Acrovyn 4000 profiles provides a modern look and a very easy to clean surface.

FAUX WOOD HANDRAIL COVERS

Combining the benefits of Acrovyn with the warm look of wood, new Faux Wood Acrovyn 4000 covers are available as an option for some of our handrails†.



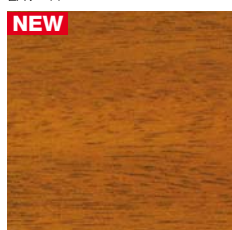
Classic Maple 372†
LRV* 47



American Beech 377†
LRV* 41



Northern Oak 376†
LRV* 42



Honduras Mahogany 386†
LRV* 17



Vintage Walnut 383†
LRV* 11

- † Available for HR6CS-N handrail ▶ 41 and for handrail covers of HRB20 series hand/crash rails ▶ 45
- ‡ Available for HRWS6C solid timber handrail ▶ 42 and for handrail part of HRBW20 series hand/crash rails ▶ 45

SOLID TIMBER HANDRAILS

For a premium look and finish, choose our solid timber handrails‡, available in four popular timber species as standard, and finished with quality stainless steel accessories.

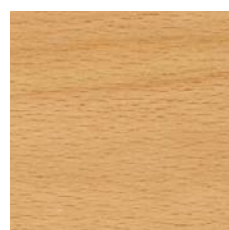
All our timber comes from sustainable sources and carries FSC or PEFC certification.



Ash†



White Oak‡



Beech‡



Maple‡

* Light Reflectance Value (LRV) indicates the amount of light reflected by a surface and can be used to assess the degree of visual contrast between different surfaces. Approximate LRV values for CS Acrovyn colours and finishes have been determined using the CIE Y value measurement method.

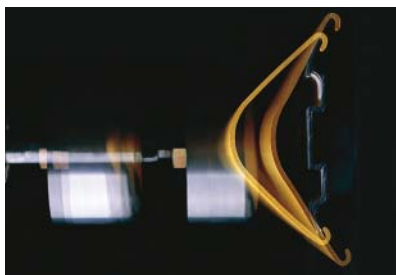
Note: Due to limitations of print and computer screens, actual colours may vary from those displayed on these pages. Samples of all colours and finishes are available upon request.

PERFORMANCE

ACROVYN WALL PROTECTION

IMPACT RESISTANCE*

Acrovyn Profiles have been tested to evaluate their impact resistance to various loads at a range of speeds in accordance with ASTM D4226-95.



Profile being subjected to equivalent force of 250kg at 2.5km per hour

CHEMICAL, FUNGAL AND BACTERIAL RESISTANCE

Acrovyn material does not propagate the growth of bacteria or fungi on a clean surface. However, the anti-bacterial properties of the product do not negate the need for a rigorous cleaning regime. Tested in accordance with BS EN ISO 846: 1997.

Acrovyn is formulated to resist most commonly used chemical solutions.

VOC EMISSIONS TESTING

When tested in accordance with ISO 16000 series principles Acrovyn material has achieved M1 Emission Classification of Building Materials.

THERMAL PERFORMANCE

Materials should be acclimatised at an ambient temperature for a minimum of 24 hours prior to commencement of works.

Acrovyn will, like most materials, expand and contract with changes in temperature, in the order of 0.07mm/m for every one degree Celsius rise or fall. It is important to allow for this when butting long lengths of profiles.

APPLICATION AREAS

Acrovyn material is designed to enhance and protect building interiors and is not recommended for use in external applications, where sunlight and a wide variation in temperatures could result in a reduction of lifespan.

CLEANING AND MAINTENANCE

Acrovyn can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308 'Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes'.

ACROVYN 4000 WALL PROTECTION

IMPACT RESISTANCE*

Acrovyn 4000 Profiles have been tested for impact resistance in general accordance with Section 18 of ASTM F 476-84 (Reapproved 2002) 'Standard Test Methods for Security of Swinging Door Assemblies'.

Abrasion resistance tests were performed on Shadowgrain Texture in accordance with ASTM D 4060-07 'Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser'.

CHEMICAL, FUNGAL AND BACTERIAL RESISTANCE

Acrovyn 4000 does not propagate the growth of bacteria or fungi on a clean surface. However, anti-microbial properties of the product do not negate the need for a rigorous cleaning regime. Tested in accordance with BS EN ISO 846: 1997 'Plastics. Evaluation of the action of microorganisms'.

Acrovyn 4000 is formulated to resist most commonly used chemical solutions.

VOC EMISSIONS TESTING

When tested in accordance with EN ISO 16000-9 for the release of volatile organic compounds, Acrovyn 4000 material achieved Class A+.

THERMAL PERFORMANCE

Materials should be acclimatised at an ambient temperature for a minimum of 24 hours prior to commencement of works.

Acrovyn 4000 will, like most materials, expand and contract with changes in temperature, in the order of 0.09mm/m for every one degree Celsius rise or fall. It is important to allow for this when butting long lengths of profiles.

APPLICATION AREAS

Acrovyn 4000 material is designed to enhance and protect building interiors and is not recommended for use in external applications, where sunlight and a wide variation in temperatures could result in a reduction of lifespan.

CLEANING AND MAINTENANCE

Acrovyn 4000 can be cleaned using soapy water, commonly used disinfectant cleaning agents, or domestic cleaning products. Tested to ASTM D1308 'Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes'.

* To assist you in product selection for your project, Acrovyn Profiles featured in the brochure have been designated with a duty rating to indicate which areas of the building they are most suitable for.



light duty

Pedestrian areas where lightweight trolleys are occasionally in use



medium duty

Similar to 'light duty' but where there is more mobile equipment



heavy duty

Main circulation areas subject to regular damage



severe duty

Distribution and circulation areas with regular heavily laden trolleys

INSTALLATION AND RAPID FIX

PREFABRICATION

CS Acrovyn profiles lend themselves to prefabrication processes, which have been successfully used on many projects.

The key benefits include more efficient material usage, reduced site labour requirements and improved site safety.

- Reduction of waste and material savings
- Speed of installation - especially in conjunction with the use of Rapid Fix brackets
- Efficiency of labour time on site
- Minimal site storage requirements
- Safety improvements

Please contact us to discuss your requirements.

RAPID FIX

CS' sturdy and efficient fixing system, Rapid Fix, makes the installation of Acrovyn Profiles a simple, clean process, which can be delivered in occupied areas.

Rapid Fix allows for lengths of retainer, cover and end caps to be prefabricated off-site, resulting in minimal downtime. The unique cam locking on the brackets simply slots into the back of the retainer, and the profile is locked in position with the twist of a spanner.

The ongoing maintenance of walls, or access to service drops, is fast and easy. The rail is released by unlocking the cam with a spanner, leaving the Rapid Fix bracket in the wall to keep fixings secure.

Look for the icon to quickly identify the models featuring this easy mounting option:



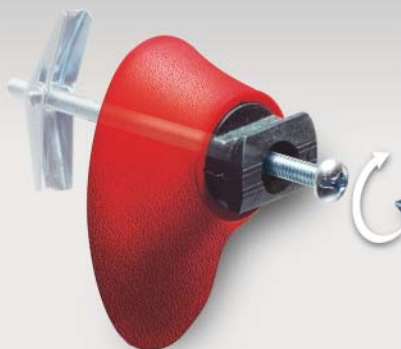
- No more drilling holes in the retainer
- No more struggling with component alignment (alignment of retainer hole, bracket placement, stud locations)
- Ease of bracket location and attachment
- Allows for pre-assembly of retainer, cover and end caps off-site
- Allows for easy maintenance
- Offers long term savings



www.c-sgroup.co.uk/3055

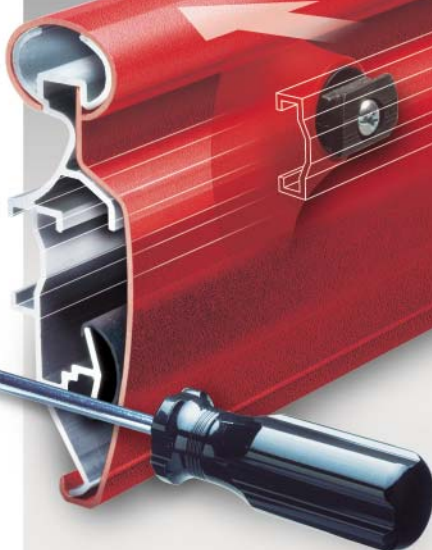
STEP 1

Rapid Fix brackets are mounted to wall at agreed heights and centres



STEP 2

The prefabricated profile is fitted onto the brackets



STEP 3

Cam head on the bracket is rotated clockwise one quarter turn with supplied Rapid Fix spanner to lock the profile in place

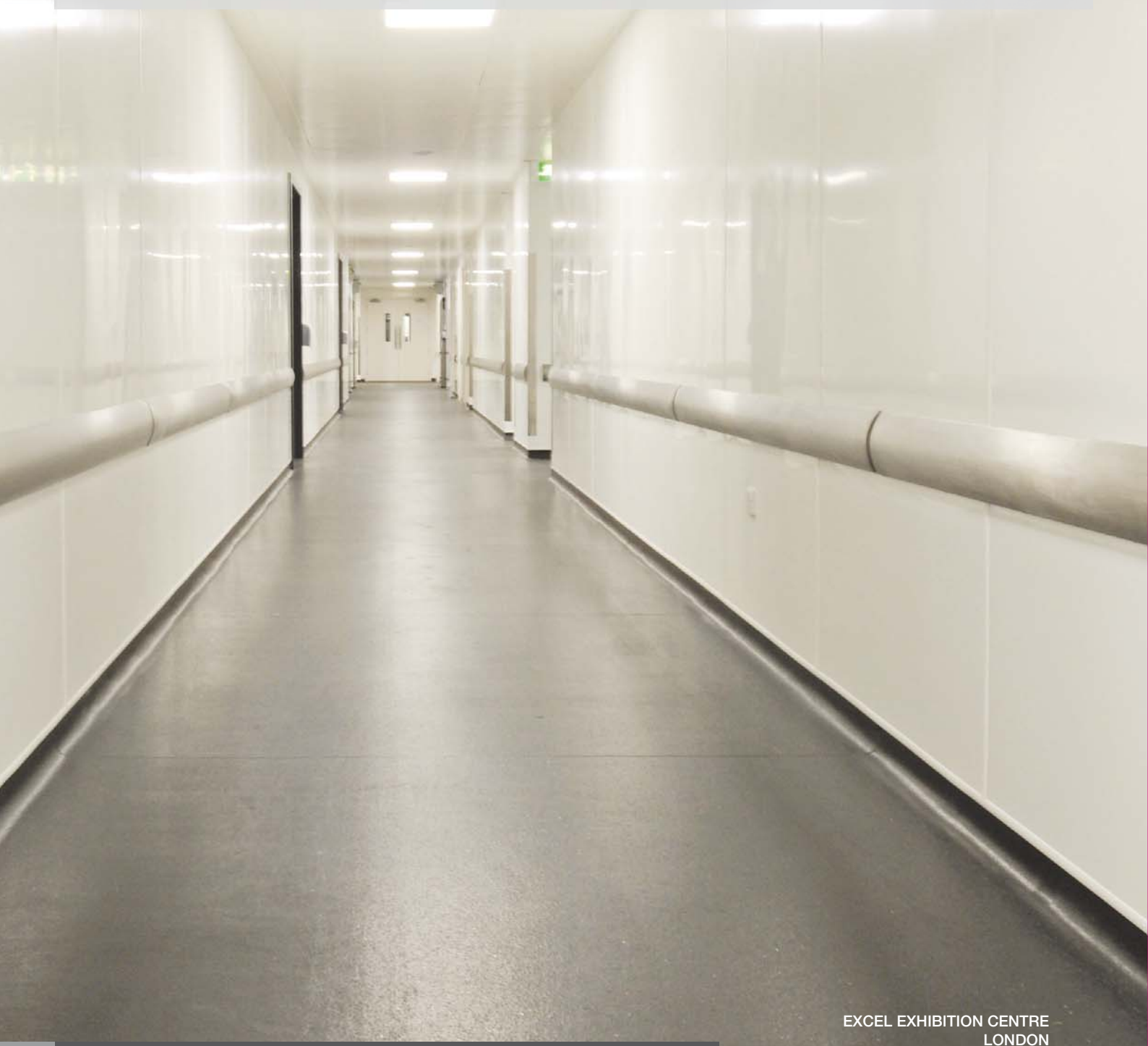


STAINLESS STEEL PROTECTION

Our stainless steel models offer a sleek, smooth appearance and robust protection for hotel, commercial and retail environments.

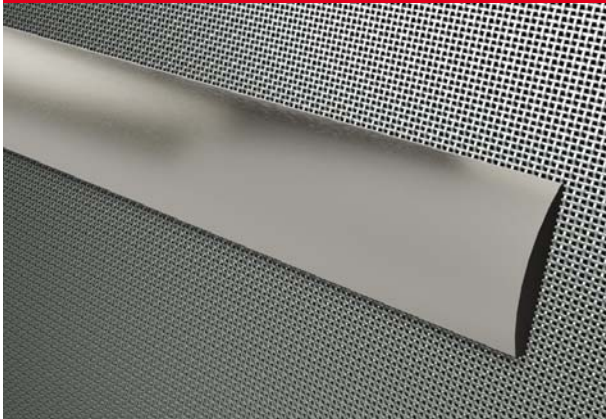
As they are inherently hygienic, they're also suitable for areas where cleanliness is of paramount importance, such as kitchens, pharmaceutical areas and laboratories.

The CS range includes options for protecting walls, corners, glazing and other building features. Where mobility support is also required, our complementary stainless steel HRSS6C handrails can be supplied (▶ 42).



EXCEL EXHIBITION CENTRE
LONDON

CRC150 CRASHRAIL



Robust, surface mounted stainless steel crashrail in a modern, curved profile suitable for ultra-clean environments

- Stainless steel crashrail cover in a dull polished finish
- End Caps are welded to surveyed rail lengths for ease of installation
- Mounted over a continuous aluminium retainer for added strength



heavy duty

MATERIAL

Grade 304 stainless steel as standard

FINISH

Dull polished

ACCESSORIES

End Caps pre-welded to surveyed rail lengths

CRC150



LENGTHS To cutting schedule from stock lengths of max 3.0m

FIXING Fix at max. 400mm centres



www.c-sgroup.co.uk/394

ECR32 SERIES CRASHRAILS



Stainless steel or aluminium rail suitable for laboratories or corridors subjected to regular impact from heavy trolleys and equipment

- Stainless steel (ECR32S) or aluminium (ECR32A) rail mounted on aluminium brackets
- Rail lengths supplied to cutting schedule with radiused preformed End Caps
- Continuous corners can be supplied to suit site conditions



severe duty

PRODUCT CODES

Stainless Steel	Aluminium
ECR32S	ECR32A

MATERIALS

Grade 304 stainless steel or aluminium

FINISHES

Satin polished stainless steel or anodised aluminium

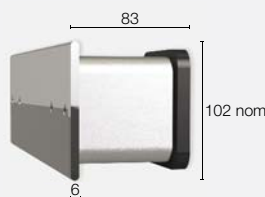
ACCESSORIES

Rails supplied with End Caps factory formed to suit project requirements; continuous factory formed external and internal corners can be accommodated



www.c-sgroup.co.uk/392

STANDARD BRACKET



LENGTHS To cutting schedule from stock lengths of max 3.0m

FIXING Fix at max. 750mm centres; fixing into studwork or pattresses recommended

ECR20 SERIES CRASHRAILS



Sleek stainless steel or aluminium rail offering heavy duty impact protection

- Stainless steel (ECR20S) or aluminium (ECR20A) rail mounted on tubular stainless steel brackets as standard
- Rail lengths supplied to cutting schedule with radiused preformed End Caps
- Continuous corners can be supplied to suit site conditions
- Stand-off to suit project requirements



PRODUCT CODES

Stainless Steel	Aluminium
ECR20S	ECR20A

MATERIALS

Grade 304 stainless steel or aluminium

FINISHES

Satin polished stainless steel or anodised aluminium

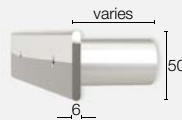
ACCESSORIES

Rails supplied with factory formed End Caps; continuous factory formed external and internal corners can be accommodated



www.c-sgroup.co.uk/393

CUSTOM LENGTH BRACKET



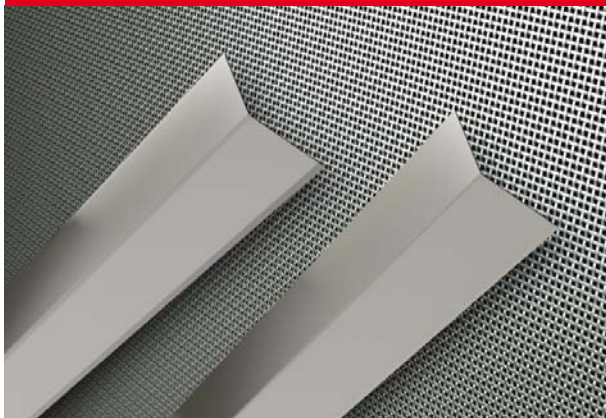
LENGTHS

To cutting schedule from stock lengths of max 3.0m (two brackets required at join)

FIXING

Fix at max. 750mm centres; fixing into studwork or pattresses recommended

STAINLESS STEEL CORNER GUARDS



Surface mounted stainless steel corner guards offering heavy duty impact protection to vulnerable external corners

- Manufactured from 1.6mm thick stainless steel for robust performance
- AB models have cranked edges to provide approx. 1.5mm void behind corner guards to accommodate wall irregularities
- Available in 40mm or 75mm leg sizes
- Designed to suit 90° corners
- Installed using construction adhesive



PRODUCT CODES

Straight Leg (40mm / 75mm)	Cranked Edge Leg (40mm / 75mm)
40A / 75A	40AB / 75AB

MATERIALS

Grade 304 stainless steel as standard

FINISHES

Dull polished stainless steel as standard

ACCESSORIES

Construction adhesive



www.c-sgroup.co.uk/2545

STRAIGHT LEG



CRANKED EDGE LEG



STOCK LENGTHS

3.0m

FIXING Installation using construction adhesive

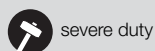


LLRSS CRASHRAILS



Severe duty low level stainless steel rail ideal for protecting fully glazed corridor walls

- 51mm \varnothing stainless steel tubular rail
- Mounted on robust stainless steel brackets for extra stability
- Suitable for floor or wall mounting
- Radiused sections can be supplied



severe duty



End Stop

MATERIAL

Grade 304 stainless steel as standard

FINISH

Satin polished stainless steel

ACCESSORIES

- Stainless steel Internal/External Corners
- Stainless steel return to wall End Caps
- Stainless steel End Stops



www.c-sgroup.co.uk/395

FLOOR MOUNTED



WALL MOUNTED



STOCK LENGTHS 3.0m

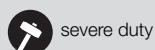
FIXING Fix at max. 1000mm centres

PP76 POST



Stainless steel posts designed to protect features, corners and doors by keeping wheeled traffic away

- Stainless steel posts for floor mounting
- Supplied with base plate cover to conceal fixings for a neat finish
- Available in a range of heights to suit application (600mm as standard)
- Complete with domed stainless steel cap



severe duty

MATERIAL

Grade 304 stainless steel as standard

FINISH

Satin polished stainless steel

PP76



HEIGHT 600mm as standard (min. 300mm, max. 1000mm)



www.c-sgroup.co.uk/2543



RUBBER WALL PROTECTION

CS Acrovyn® rubber wall protection profiles have excellent shock-absorbing and weather resistant qualities. They are the ideal protection solution for back-of-house, manufacturing and delivery areas liable to damage from vehicular traffic, trolleys and carts.

Robust Acrovyn® rubber profiles are suitable for fixing directly to concrete, steel, masonry or timber, and can be chosen for interior or exterior applications.



200W SERIES CRASHRAILS



Severe duty EPDM rubber crashrails capable of withstanding the toughest knocks in back of house, delivery and car park areas

- EPDM rubber crashrail
- Suitable for interior and exterior applications
- Available in two thicknesses to suit project requirements
- Optional light reflective, self adhesive tape insert
- Can be fixed to circular columns using steel binding
- External and internal corners can be achieved on-site through mitering



MATERIAL

Black EPDM Rubber

ACCESSORIES

Light reflective, self adhesive tape insert

200W30 / 200W50



STOCK LENGTHS 3.0m

FIXING Fix at max. 300mm staggered centres



www.c-sgroup.co.uk/406

150W20 CRASHRAIL



Slimline EPDM rubber protection with concealed fixings for protecting walls from damage from trolleys, carts and vehicles

- Severe duty EPDM rubber crashrail
- Suitable for interior and exterior applications
- Snap-in cover strip conceals fixings for a neat finish
- Supplied with internal aluminium strip for firm wall fastening
- External and internal corners can be achieved on-site through mitering



MATERIAL

Black EPDM Rubber

150W20



STOCK LENGTHS 3.0m

FIXING Fix at max. 400mm centres



www.c-sgroup.co.uk/407

D-SECTION CRASHRAILS



Shock absorbing D-section rubber profiles for indoor and outdoor use

- Severe duty EPDM rubber crashrail
- Available in two sizes to suit project requirements
- Suitable for interior and exterior applications
- Hollow design flexes under impact, absorbing its force
- Optional rubber end plugs and bolt bung covers available
- External and internal corners can be achieved on-site through mitering



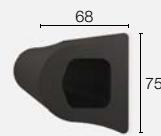
MATERIAL

Black EPDM Rubber

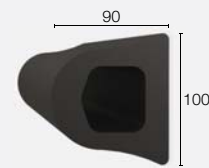
ACCESSORIES

- Rubber End Plugs
- Rubber Bolt Bung Covers

75D



100D



STOCK LENGTHS 3.0m

FIXING Fix at max. 400mm centres. Sections require drilling on site, or can be supplied pre-drilled to special order

B-SECTION GUARD



Discreet B-section rubber guard offering heavy duty protection for vulnerable back-of house areas

- Heavy duty EPDM rubber guard
- Continuous aluminium fixing strip for firm fixing to the wall
- Suitable for interior and exterior applications
- External and internal corners can be achieved on-site through mitering



MATERIAL

Black EPDM Rubber
Fixing strip - mill finish aluminium

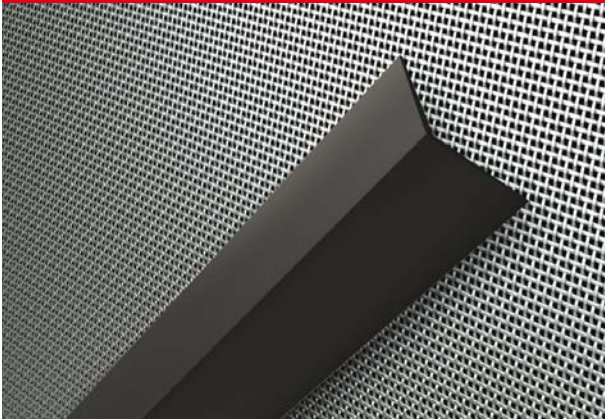
60B



STOCK LENGTHS 3.0m

FIXING Fix at max 400mm centres

RUBBER CORNER GUARDS



Surface mounted rubber corner guards for excellent protection to corners in areas requiring heavy duty protection

- EPDM rubber corner guards
- Available in 75mm and 100mm sizes
- Suitable for interior and exterior applications
- Installation using construction adhesive and/or proprietary fastenings
- 100C model is grooved on the internal surface to afford greater adhesion



MATERIAL
Black EPDM Rubber

75C



100C



www.c-sgroup.co.uk/411

STOCK LENGTHS 3.0m

FIXING Mechanical fixings at max. 300mm staggered centres



NEW VICTORIA HOSPITAL CAR PARK
GLASGOW

CODES AND LEGISLATION

BUILDING REGULATIONS 2010 - AD M

'The Building Regulations 2010 – Approved Document M Access to and use of buildings' draws on BS 8300:2009+A1:2010 for guidance to the reasonable provisions which should be made to ensure that buildings are accessible and usable. The main objective is to enable all people to travel around the building without discomfort or risk of personal injury.

It is recommended that large surfaces in a building, as well as key fittings/fixtures, are visually distinguishable from one another, or from the surrounding background, by virtue of the difference in Light Reflectance Value (LRV). This difference should be 30 points or more (the 'good zone'). However, 20 points might be acceptable where the illuminance on the surface is 200 lux or more (refer to BS 8300:2009+A1:2010, Annex B for details).

Elements which require consideration include:-

- In corridors or entrance lobbies any obstructions, or full height elements protruding into the space more than 100mm (such as columns, ducts etc.), should be protected with visually contrasting materials.
- Doors and frames should have sufficient colour contrast with each other and surrounding walls, to make them easily visible when closed. The leading edge of any door that is likely to be held open should contrast visually with the remaining surfaces of the door and its surroundings to be easily identifiable by visually impaired people.
- Handrail colour should be sufficiently different from the background wall colour.

In addition, handrail dimensions are given for diameter (32mm to 50mm for circular handrails), distance from wall (50mm to 75mm) and distance from crank of bracket to underside of rail (50mm min). Return to wall handrail ends will prevent clothing or carried objects being caught and causing potential injury.

Acrovyn sheet, trolley plates, crashrails or corner guards can be used to highlight obstacles or protrusions. As well as providing mobility support, our handrails can be utilised to steer pedestrians and wheelchair users around an obstacle.

All CS products are available in a wide range of colours and finishes to offer plenty of scope for meeting visual contrast requirements, without having to compromise on design and aesthetics.

HEALTH BUILDING NOTE 00-04

'Health Building Note 00-04: Circulation and communication spaces' provides guidance on the design of circulation and communication spaces in healthcare buildings, and supporting information on doors, handrails and wall protection.

It is recommended that:

- Handrails should be fitted in main communication routes and in departmental corridors as required
- Contrasting handrails/crash rails may be fitted to provide visual contrast and act as navigation tools
- Handrails will be required in lifts for patient/general traffic use, but requirements will vary in lifts for trolley, stretcher and bed movements
- The top of the handrail should be 900-1100mm above the floor level. A second, lower handrail at a height of 600mm should be provided in children's healthcare facilities
- Handrails should be easy to grasp, and provide a firm but comfortable grip with the whole hand. A handrail that is round in cross-section should have a diameter of 40-45mm
- A clearance of 60-75mm between the handrail and the adjacent wall (or other obstacle) is recommended for hands to pass without scraping knuckles, and to aid those who want to use the rail as a support for the whole forearm
- Where handrails and wall protection are required they may be fixed on combined brackets or kept separate. A minimum vertical clearance of 50mm must be maintained between the handrail and wall protector
- Handrails should contrast visually with the background surface, provide a smooth surface, free of any abrasive elements, and be neither too cold nor too hot to the touch
- Doors should be fitted with kick plates, mounted to a minimum height of 400mm to protect them from damage from pushchairs and wheelchairs
- Door frames should contrast visually with the walls/surrounding surfaces
- On doors that are designed to remain open, potentially creating an obstruction, the edges should contrast visually with the background against which they will be viewed

Note: Where the guidance included in the HBN 00-04 varies from BS 8300:2009+A1:2010 or Approved Document M - Vol. 2 (2015) (e.g. for handrail dimensions), it is intended to supersede these standards for healthcare premises. All such variations have been included in Appendix 2 to the HBN 00-04.

Acrovyn solutions are used to create legislation compliant healthcare environments, which are functional, clean, safe and aesthetically pleasing. Acrovyn products will also assist in reducing a building's lifecycle costs.

References:

Department of Health, Core Elements - Health Building Note 00-10: Part B: Walls and ceilings, 2013 Edition
Department of Health, Core Elements - Health Building Note 00-04: Circulation and communication spaces, 2013 Edition
Department of Health, Health Technical Memorandum 05-02: Firecode: Guidance in support of functional provisions (Fire safety in the design of healthcare premises)
Health Building Notes and Health Technical Memoranda are public sector information sources licensed under the Open Government Licence. All documents are available for download from <https://www.gov.uk/government/collections/health-building-notes-core-elements>
The Building Regulations 2010, Approved Document M – Access to and use of buildings - Volume 2: Buildings other than dwellings, 2015 Edition.
Copy of this and other Approved Documents are available from <https://www.gov.uk/government/collections/approved-documents>
BS 8300:2001+A1:2010 Design of buildings and their approaches to meet the needs of disabled people - Code of practice. British Standards Institution, 2010
British Standards are available for purchase from <http://shop.bsigroup.com/en/>

HEALTH BUILDING NOTE 00-10: PART B

'Health Building Note 00-10: Part B: Walls and ceilings' outlines the policy and performance requirements for walls and ceilings used in healthcare facilities.

One of the most important issues affecting healthcare environments is the control of infection. All finishes used should therefore be chosen with cleaning in mind. Materials and finishes should also be selected to minimise maintenance, and be compatible with their intended function and lifespan/duration of use.

The following guidelines apply to the selection of wall finishes:

- Smooth, hard, seamless and impervious surfaces are required in clinical areas, as they are easier to clean
- Wall finishes should not comprise materials that promote or sustain the growth of fungi and microorganisms
- Wall finishes are to meet the performance classifications given in Health Technical Memorandum 05-02*
- Wall finishes are to be durable, and able to withstand minor impacts without the need for additional wall protection
- Wall finishes are to be impermeable and easily wiped over if necessary, and not be physically affected or degraded by detergents and disinfectant

Where impact damage is expected, impact protection should be used on walls and partitions to help reduce the incidence and severity of damage, and maintain their performance. Protection fittings (e.g. handrails, crash/buffer rails, corner guards, protective plates and sheeting or bed buffers) should be positioned at the correct height to give the maximum defence against mobile equipment.

The type of material used should be suitable for its intended location (e.g. stainless steel in kitchens, hygienic surfaces in laboratories) and, where appropriate, materials and colours should comply with the requirements of the Equality Act 2010.

* 'Health Technical Memorandum 05-02: Firecode: Guidance in support of functional provisions (Fire safety in the design of healthcare premises)' details fire resistance requirements which need to be achieved by wall and ceiling finishes that can be effectively tested for 'surface spread of flame'. For surface finishes used in small rooms (not more than 4m²) National classification Class 1 (or European class C-s3,d2) will suffice. For circulation spaces and other rooms, National classification Class 0 (or European class B-s3,d2) is required.

Designed to protect walls and other surfaces from impact damage and abrasion, Acrovyn is a tough, through-coloured and impermeable material, which is easy to clean & maintain, and does not support the growth of bacteria or fungi on its surface. Our wide selection of profiles and sheet offers solutions for various levels of protection to suit application requirements.

SUSTAINABILITY

Protecting the environment is a journey, not a destination

CS recognises its responsibility to current and future generations for its role in the preservation of our global environment.

This intent remains our reality through all our operations worldwide and we are continually working towards more environmentally sound practices.

CS Acrovyn is a homogeneous, flame retardant and robust material, capable of withstanding repeated impact for many years, thereby ensuring that the lifecycle is maximised.

The textured finish provides enough depth to assist in masking small abrasive marks, whilst remaining shallow enough to facilitate easy cleaning.

Acrovyn Profiles combine Acrovyn covers with aluminium retainers and shock absorbing interior cushions, to provide all levels of wall protection.

CS Acrovyn is an unplasticised, lead free product, manufactured with no waste, as virgin product can be reformed. There are no ingredients in Acrovyn which are hazardous, and it is not classified as being a dangerous preparation according to the EU Directive 88/379/EEC.

The latest development in the range is Acrovyn 4000, a 100% recyclable, PVC-free formulation wall protection, which is also free from Bisphenol A (BPA), Persistent Bioaccumulative Toxins (PBTs) and halogenated or brominated fire retardants.

Designed to be robust, long lasting and to prolong the lifespan of the interior building fabric, CS Acrovyn products may be able to contribute to the BREEAM points against category 9.0 Materials, issue MAT 05 - Designing for durability and resilience.[†]

For more information on CS' environmental practices, visit www.c-sgroup.co.uk, or contact Customer Service Team on +44 (0)1296 652800.

[†] For further details refer to BREEAM UK New Construction Non-domestic Buildings (United Kingdom) Technical Manual SD5076: 4.1 - 2014, available from: <http://www.breeam.com/BREEAMUK2014SchemeDocument/>

OUR SERVICE

TECHNICAL SUPPORT

We look forward to assisting you with any queries, and ensuring that you have made the right selection for your project. Call +44 (0)1296 652800 to speak with a member of our customer service team, technical team or area representatives.

SPECIFICATION SUPPORT

NBS specification clauses are available on request, or can be downloaded from www.c-sgroup.co.uk/6536

Please contact us should you require specification assistance.



NBS Specification Clauses for CS products are available in the manufacturer's section of NBS Building and NBS Create.

SAMPLES SERVICE

Call us on +44 (0)1296 652800 for product or colour samples, or submit a sample request via our website at www.c-sgroup.co.uk



INSTALLATION SERVICE

We offer a complete installation package through our sister company, Conspec Contracts Limited. Conspec provides full site surveys, implement installation programmes, and advises upon suitability of material.

Conspec's experienced installation teams are CSCS accredited.

For further information, contact us on +44 (0)1296 652800 or visit

www.c-sgroup.co.uk/2894



RECENT PROJECTS

Aberdeen Royal Infirmary - Aberdeen
Altnagelvin Area Hospital - Londonderry
Birmingham Dental Hospital
BUPA Care Homes - various locations
Chelsea and Westminster Hospital - London
Cheltenham Racecourse - Cheltenham
Ellon Academy - Ellon
Elms Bank Specialist Arts College - Whitefield
Ericsson Data Centre - Sweden
Exhibition Centre Liverpool
Fitness First - various locations
Francis Crick Institute - London
Grand Central Shopping Centre - Birmingham
Great Ormond Street Hospital - London
Hilton Hotel - Bournemouth
Lancaster University - Lancaster
Leicester Royal Infirmary - Leicester
Manchester Airport - Manchester

Marks & Spencer - various locations
Morrison Hospital - Swansea
Mount Carmel Hospital - Dublin
Napp Pharmaceuticals - Cambridge
New Karolinska Solna Hospital - Sweden
New South Glasgow Hospital - Glasgow
Pfizer Ireland Pharmaceuticals - Dublin
RAF Croughton - Croughton
Royal Oldham Hospital - Oldham
Royal Mail - various locations
Southmead PFI Hospital - Bristol
The Noah's Ark Children's Hospital - Cardiff
The University of Exeter
Townlands Community Hospital - Henley-on-Thames
Travelodge - various locations
Tune Hotels - various locations
University Hospital Ayr - Ayr
Yo! Sushi - various locations
Ysgol Ffwrnes Primary School - Llanelli

WARRANTY POLICY

Construction Specialties (UK) Limited (the Company) warrants to its purchasers that their Acrovyn products sold will be free from any defects in materials or workmanship and will meet the design criteria noted in our brochures when properly installed and maintained. If, in the sole opinion of the Company, a product covered by this warranty is defective, the Company will replace or repair it free of any charge. This warranty shall extend for a period of two years following the date of shipment by the Company. This is in lieu of all other warranties expressed or implied, and is the sole warranty extended by the Company. The liability of the Company under this warranty is limited to repair or replacement, and does not include any responsibility for consequential or other damage of any nature.

Disclaimer

The company reserves the right to make design changes for the purpose of product improvement, or to withdraw any design without notice.



CS PRODUCT RANGE



for more information visit www.c-sgroup.co.uk



Construction Specialties™



FM 21206



EMS 634438

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