



 **Acrovyn** by Design®
Bespoke Wall Protection

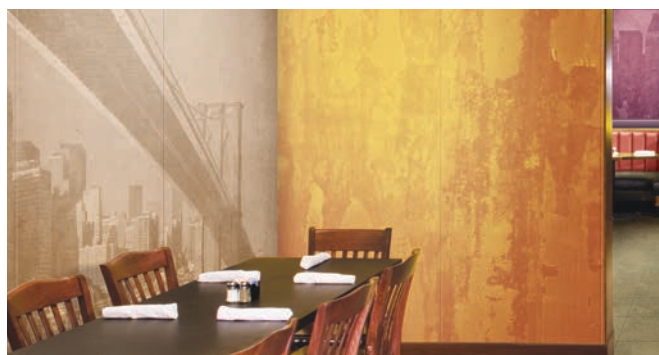
ACROVYN BY DESIGN®

Wall Protection now comes with unlimited visual freedom.

For over 40 years Acrovyn® has set the standard for reliable, durable wall protection. Whilst we have seen huge innovation in colour, finish and design, wall protection has remained a functional necessity rather than an aesthetic luxury.

In Acrovyn by Design® (formerly known as Acrovyn Imagine®), we have combined our environmentally friendly, PVC-free Acrovyn® 4000 with high resolution imagery - taking wall protection beyond the ordinary and into a world of infinite possibilities.

Fully customisable, Acrovyn by Design® can do more than protect your space: it can transform it.



PHOTOS | GRAPHICS | PATTERNS & FINISHES | BRANDING | MESSAGING | WAYFINDING

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.



IMAGINE THE POSSIBILITIES

HEALTHCARE

Studies have found that imagery can improve patients' health and wellbeing.

Depending on the use of the area, carefully selected artwork can have different effects - relaxing, distracting, or stimulating. It can also be used to support reminiscence therapy.

Incorporated into wayfinding schemes, imagery and colour can add warmth and character to the interior.

Use Acrovyn by Design® to create beautiful healthcare interiors, whilst protecting surfaces, artwork and maintenance budgets.

▼ Soothing photography in a CT scan room helps to reduce anxiety and calms patients during a procedure

Historical imagery of a local area evokes memories and encourages conversation in an elderly care ward ►



ROYAL BOURNEMOUTH HOSPITAL



The Royal Bournemouth Hospital's 'Jigsaw Building', housing cancer treatment facilities and a new Women's Health Unit, welcomed patients for the first time in 2015.

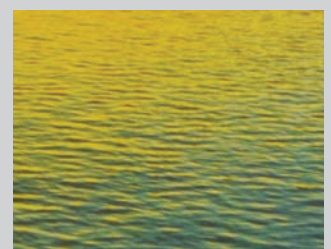
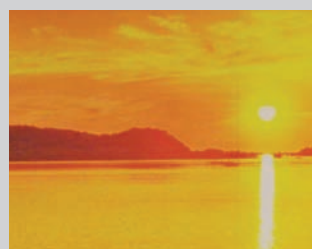
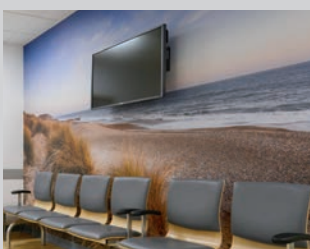
Following extensive patient, staff and local community engagement, the building's design has been tailored to meet their specific needs. One of the recurring ideas during consultation period was for artwork to become an integral part of the interior design.

Architects Stride Treglown and the Capital Estates Department decided to create expansive wall murals in key hospital areas. The medium to deliver this project had to be highly durable, as full height murals in busy

locations are susceptible to damage. Ease of cleaning was also prerequisite, to ensure stringent hospital hygiene standards were not compromised.

Acrovyn by Design® was identified as the best solution, offering impact resistance, easy clean qualities as well as PVC-free composition. Studio Mode, interior graphic designers for the project, selected imagery which brings nature into the hospital with familiar seaside scenes.

Installed in the Oncology Recliner Bay and in the Breast Care Subwait, Acrovyn by Design® murals create a positive distraction and a calming, soothing environment for patients and visitors.



IMAGINE THE POSSIBILITIES

EDUCATION

The environment in which people study and receive education can affect their academic progress. Thoughtful interior design can improve learning, promote interest, offer stimulation and provide inspiration.

Acrovyn by Design® offers a highly durable finish that resists daily wear and continues looking good, encouraging students to take pride in the appearance of their building.

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

► A large image of a school mascot and logo reinforces the school's branding in an entrance to the building



FITNESS AND LEISURE

Interior finishes are used to express the unique personality of fitness centres. They reflect the brand and the quality of service provided.

A perfect medium for delivering vibrant, energising imagery, Acrovyn by Design® will create the desired look whilst minimising maintenance costs for years to come.

▼ Reception desk facing completes a branded design of a fitness club's entrance area

An inspiring wall mural in a gym's training area ▶



IMAGINE THE POSSIBILITIES

RETAIL

An inspiring and inviting interior design, along with a strong brand image, are critical elements to retailers' success. They help to attract customers and create a unique and memorable experience.

Whatever the size of the store, Acrovyn by Design® creates distinct appeal and customer engagement. It will also keep the interior looking fresh and vibrant for customers to enjoy.

▼ Wall murals add interest and depth to the retail display

Large panels in shopping centre thoroughfare provide instant brand recognition



FOOD RETAIL

Delivering the perfect dining experience is all about stimulating the senses. Good food and great service should be complemented by interior design that sets the right tone and ambiance.

Colour and imagery are essential factors in creating the right feel. Use Acrovyn by Design® to produce a lasting design that stands up to daily wear & tear, and is easy to keep clean.

▼ Bold wall murals and column finishes create an interesting and distinct effect in a bar area

▶ Gradient pink panels behind counters add interest and complement the design scheme



IMAGINE THE POSSIBILITIES

SPORTS STADIA

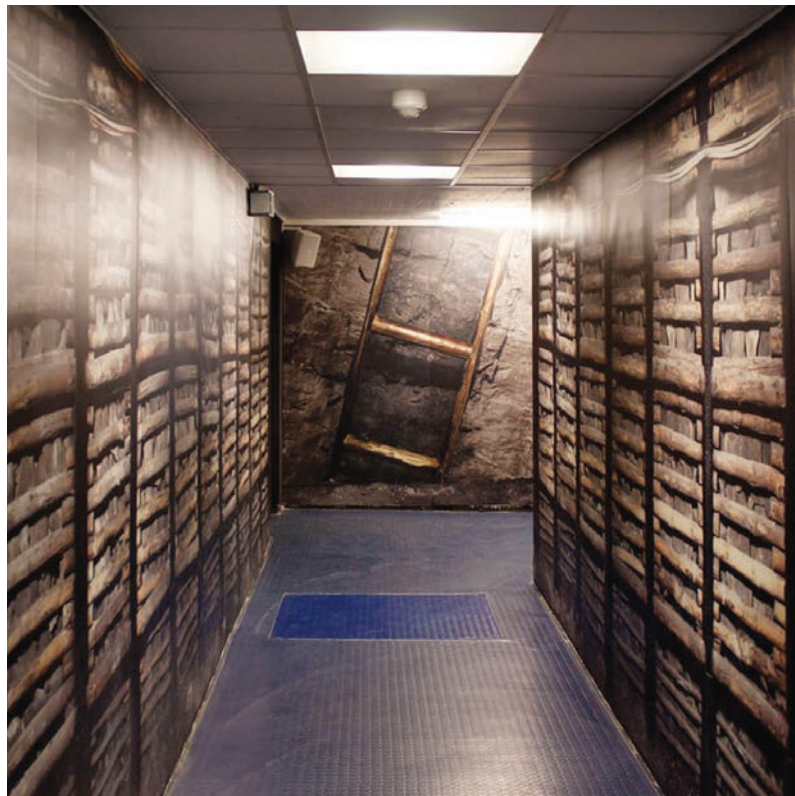
Sharing proud moments from the history of sport inspires new generations to dream, aim high and work hard.

Interior walls can be used to display images of sporting heroes and memorable events, making stadia tours unforgettable.

There is no need to stop the visitors and fans from getting up close to the action, as imagery embedded in tough Acrovyn by Design® stays protected from scratches, fading and damage.

▼ Extensive mural in a football museum's escalator area sparks conversation and ties in with the overall theme

Images of an old mine shaft in a players' tunnel reflect the history of a club and its local area ►



BLACKBURN ROVERS FOOTBALL CLUB



'Arte at labore' (By skill & hard work). Blackburn Rovers' motto features prominently in the design of the refurbished players' tunnel.

Acrovyn by Design® has been used as a wallcovering in this busy area to offer a bespoke and vibrant decor. The artwork is fully protected by the durable finish, which is scratch and impact resistant as well as easy to clean.

Greg Coar, Head of Commercial & Marketing at Blackburn Rovers F.C., said: 'We've always tried to keep the players' tunnel looking fresh and appealing for the benefit of our players, guest teams and visiting fans,

but white painted walls and graphics printed on foam based boards were very susceptible to scratches and damage from high traffic and kit carts hitting the walls.

'We have found a durable solution to this problem in Acrovyn by Design. The panels featuring Rovers' crest, motto, roll of honour and our sponsor's logos look vibrant and attractive. They were installed to the full height of the walls in the tunnel, transforming it completely.'



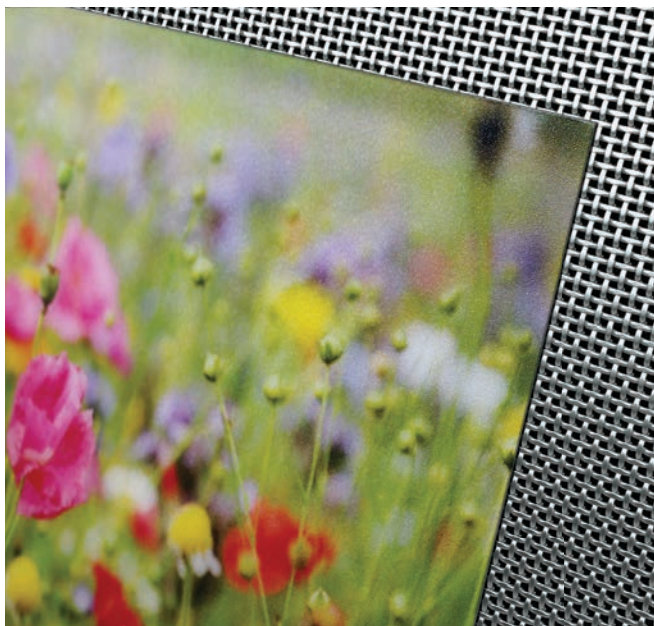
INTERIORS TRANSFORMED

It has been proven that the right type of imagery can have a positive impact on learning, healing, productivity and overall outlook. Unfortunately, in busy facilities maintaining the high quality of displayed artwork, whether framed or wall murals, can be challenging.

Acrovyn by Design® opens up a new realm of possibilities. Your photographs, patterns, logos and more can be safely embedded behind our durable Acrovyn® 4000 Sheet, creating stunning interiors that last.



FEATURES AND BENEFITS



- Tough and durable bespoke surface protection which retains its original appearance throughout a long design life
- Impact, scratch and chip resistant surface, making it suitable for busy areas of any building
- High quality image reproduction, ideal for displaying graphics, photos and branding
- Complete design flexibility enables creation of bespoke interiors
- 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 incorporates 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, PBTs (Persistent Bioaccumulative Toxins), BPA (Bisphenol A) 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. Our standard sheet size is 3030mm x 1230mm. Large wall murals will be comprised of multiple sheets for each image. Sheets are 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. See page 16 for further information.

IMPACT AND ABRASION RESISTANCE

Acrovyn by Design provides a durable surface finish, resistant to wear and abrasion. Tested to ASTM D 4060-10 'Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser'.

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, anti-bacterial 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 'Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes'.

For further details visit www.c-sgroup.co.uk/2636

DESIGN CONSIDERATIONS

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 reasons.

Following the guidance in this section will ensure that your Acrovyn by Design® order is processed without unnecessary delays, and the final result meets your expectations.



CHOOSING AN IMAGE

IMAGE TYPE AND QUALITY

To ensure optimum output quality we recommend you check the quality of your selected image at the actual print size, before you place an order with us.

There are two types of digital images; vector and bitmap. Either type can be used to produce your Acrovyn by Design project, providing the image meets the resolution requirements. Where both vector and bitmap formats are available for the selected image, vector should always be used.

If you have any doubts regarding suitability of your image for printing, please submit it to us for review.

ARTWORK FILE FORMAT

We can work with a wide range of file formats, including:

VECTOR IMAGES

.AI Adobe Illustrator

.EPS Encapsulated PostScript

.WFM Windows Metafile (Microsoft Clip Art)

Please crop an image to meet your Acrovyn by Design project dimensions, before submitting it to us.

BITMAP IMAGES

.TIF Tagged Image File Format (preferred no compression)

.JPG Joint Photographic Experts Group (highest quality)

.PSD Adobe Photoshop

RAW file formats

If bitmap images contain layers, please flatten them before sending.

.PDF Portable Document Format (press quality)

Artwork can be submitted on non-returnable CD/DVDs, USB flash drives, or via a secure upload link (provided upon request).

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.

For further guidance on selecting and supplying images for printing visit www.c-sgroup.co.uk/2636

VECTOR IMAGES

- Created in a graphics package
- Composed of objects (lines)



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

BITMAP IMAGES

- A photograph from a camera or a scanner
- Composed of individual pixels



Bitmap images can lose quality if resized. If your image looks too blurry or pixelated at an actual output size, you may need a higher resolution image.

VIEWING DISTANCE

The acceptable resolution depends on how the viewer will be interacting with the image. Based on the amount of information the human visual system can perceive and process, images seen from a longer distance can be output at a lower resolution.

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.

DESIGN CONSIDERATIONS

INSTALLING ACROVYN BY DESIGN

Acrovyn by Design can be fitted directly to a variety of interior surfaces, using a suitable adhesive.

To achieve a high quality of installation and a long term bond, the substrate needs to be dry, sound and smooth.

The material offers enough flexibility to be applied to shallow curved walls or reception desks and can also be formed to be fitted around corners.

Supplied in 3030mm x 1230mm* rigid sheets as standard, it can be used to create large wall murals. Sheets are cut as necessary with no additional cutting charge.

* The print area of an individual Acrovyn by Design sheet is 3030mm x 1230mm (sizes within these dimensions can be supplied). Images can be printed in portrait or landscape orientation. Multiple panels are used to create large wall murals.



JOINTING OPTIONS

• Butt Joints

In temperature controlled environments, or areas where temperature fluctuations are minimal, sheets can be butt jointed.

The material must be acclimatised at the room temperature prior to the installation.



Acrovyn by Design sheets can be installed butt jointed in temperature controlled environments.

• Mastix Joints

In areas where temperature changes are expected, we recommend a small gap is left between panels to allow for expansion and contraction of material.



An expansion gap is recommended in locations where temperature will vary. Clear or coloured mastic can be used to provide a continuous surface.

For detailed thermal movement information refer to installation instructions.



For further details and installation instructions visit
www.c-sgroup.co.uk/2636

SPECIFYING AND ORDERING

SPECIFYING ACROVYN BY DESIGN

To facilitate easy inclusion in your specification, NBS Specification Clauses for CS products are featured in the manufacturer's section of NBS Building and NBS Create.

Standard NBS Clauses are available on request and can also be downloaded from our website:

www.c-sgroup.co.uk/6536

Acrovyn by Design specifications are typically inserted into the following clauses:

NBS BUILDING

P20: Unframed Isolated Trims / Skirtings / Sundry Items
170

NBS CREATE

45-65-60 / 310



Please contact us should you require specification assistance.

TYPICAL NBS SPECIFICATION

BESPOKE WALL PROTECTION

- MANUFACTURER:
Construction Specialties (UK) Limited
1010 Westcott Venture Park, Westcott
Bucks HP18 0XB, England
T: +44 (0)1296 652800 F: +44 (0)1296 652888
Web: www.c-sgroup.co.uk Email: info@c-sgroup.co.uk
- PRODUCT REFERENCE:
CS Acrovyn by Design®
- OVERALL SIZE:
As per architect's drawings
- IMAGE:
[_] - Bespoke printing, using client's choice of image

ORDERING ACROVYN BY DESIGN

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. For further information about copyright please refer to page 15.

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 on page 15

PLEASE 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.



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

For a free Acrovyn by Design sample contact us on +44 (0)1296 652800, or submit a sample request via our website.

Bespoke samples featuring your selected image can be processed for a small fee, which will be refunded should you place an order with us.



INSTALLATION SERVICE

We offer a complete installation package through our sister company Conspec Contracts Limited. They provide full site surveys, implement installation programmes and advise 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



PROJECTS

Royal Bournemouth Hospital - Bournemouth

Prospect Park Hospital - Reading

Royal Manchester Children's Hospital

BUPA Cromwell Hospital - London

Mercure Hotel - Inverness

St Michael's Hospital - Bristol

Great Western Hospital - Swindon

Yo! Sushi - various

St Ann's Hospital - Poole

Salisbury District Hospital - Salisbury

Blackburn Rovers Football Club - Blackburn

West Heath Hospital - Birmingham

Royal Albert Edward Infirmary - Wigan

EDF Energy - Sunderland

Royal Bank of Scotland - various locations

NatWest - various locations

Writhlington Sports Centre - Writhlington

Royal Sussex County Hospital - Brighton

Royal Cornwall Hospital - Truro

Hebasca Hotel - Bude

Great Western Hospital - Swindon

SATS Gyms - various locations, Sweden

Chambery Hospital - France

VfL Bochum Football Stadium - Germany

Riley Hospital for Children - US

Dr Kirk Lewis Career & Technical High School - US

Planet Fitness - US

CPMC California Campus - US

WARRANTY POLICY

Construction Specialties (UK) Limited (the Company) warrants to its purchasers that their Acrovyn by Design® 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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