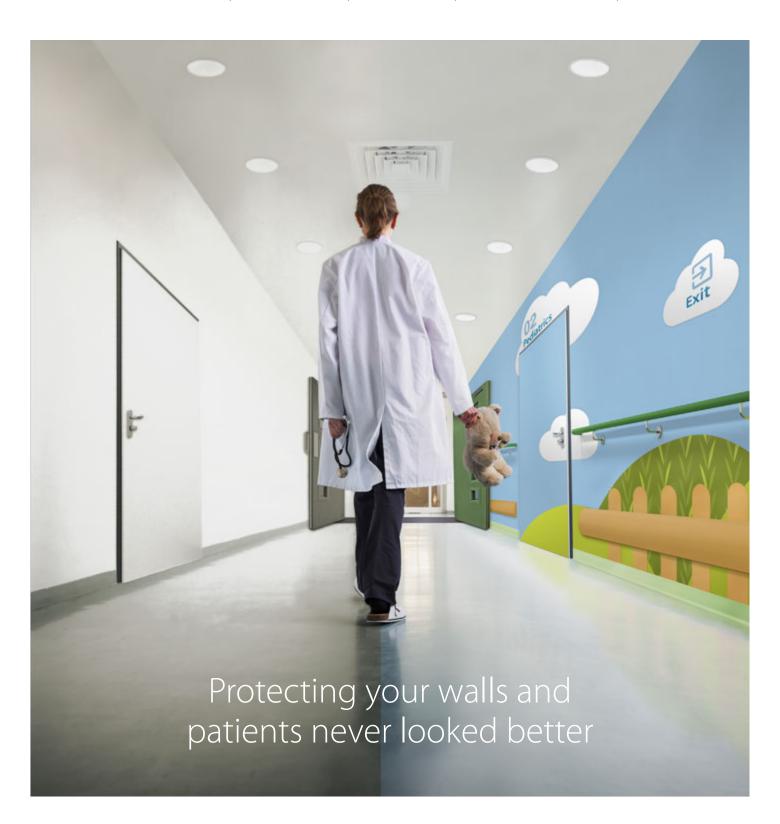


WALL, CORNER AND DOOR PROTECTION

WALL PROTECTION SHEETS | CRASH RAILS | HANDRAILS | DOOR PROTECTION | CORNER GUARDS





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Wall protection profile

> CS Acrovyn® Sheets

> CS Acrovyn® Bactericide

> CS Acrovyn by Design®

> Door protection

> Crash rails

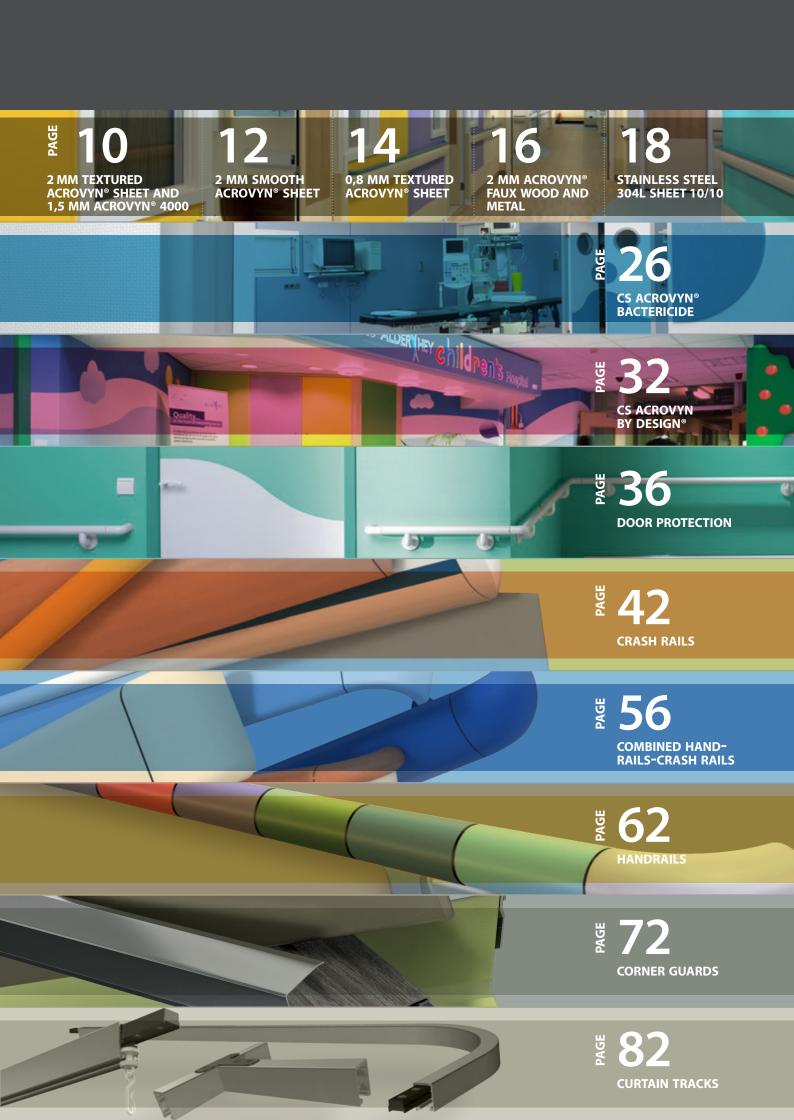
> Combined Handrails - Crash rails

> Handrails

> Corner guards



> Supertrak® Plus





Only Acrovyn® wall protection is a safe bet for health and sanitary environments as it comes packed with unique features only a market leader can offer.

Acrovyn® is the strongest wall protection money can buy and also the only one that actively kills bacteria or is manufactured without PVC.

But there is much more. When it comes to wall protection, with Acrovyn® you place your bets on the winning horse. Discover on the following pages why.





Greener and stronger

Acrovyn® 4000 is the first and only wall protection sheet manufactured without PVC, PBTs nor halogens. You won't find a stronger nor more environmentally friendly wall protection material on the market.





B-s2,d-0 certified

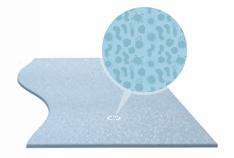
Fire regulations consider M1 insufficient for many hospital areas and require a B-s2, d0 certification instead. Acrovyn® is non-flammable and fully B-s2, d0 certified.





Truly Bactericide

Acrovyn® Bactericide is the only wall protection to completely eliminate common hospital bacteria such as *E. Coli, S. Aureus and M. Smegmatis*. A true breakthrough in the fight against nosocomial infections.





CE labelled

For complete building product transparency and traceability, all Acrovyn® products are CE labelled, disclosing their properties and what they are made of. All our test certifications are available on request.

CS France 135, rue Edouard Isambard - BP66 F-27120 PACY-SUR-EURE		
High impact wall coverings		
Fire rating	B-s2,d0	
	Applied on a gypsum board with a conventional acrylic water based adhesive	
Release of formaldehyde	Complies with the criteria of 95 mg/kg	
Release of other dangerous organic substances such as :		
Heavy metals and specific elements	Complies with the criteria	
Vinyl chloride monomer (VCM)	Complies with the criteria	
Acoustic absorption	No determined performance	
Thermal resistance	No determined performance	



51 colours and textures

No matter what ambience you are looking to create, with a selection of 51 colours and textures finding the right colour combination is now just a question of choice: your choice.





CS Acrovyn by Design®

Acrovyn by Design® is a game-changing novelty embedding high quality digital print in tough as nails Acrovyn® sheet. It combines unprecedented visual possibilities with heavy duty protection for both walls and image.



Acrovyn® 4000



Unbeatable protection for your walls, gentle for the environment

The best wall protection on the market just got better still. Impact tests had already proven that classic Acrovyn® was the strongest wall protection material on the market. Now, Acrovyn® 4000 reduces its weight by 25% while maintaining the same unbeatable strength.

But resistance is only part of the story. Once again, CS takes the lead with Acrovyn® 4000 as the first wall protection sheet in the world being manufactured without PVC, PBTs, BPAs or halogens.



Acrovyn® Colours



100% Bacteriostatic



B-s2,d0 fire rated







Environmentally friendly and stronger than ever before



25% lower carbon footprint

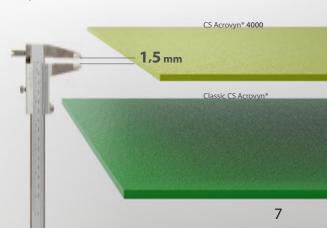
> As Acrovyn® 4000 is lighter and thinner, it requires less energy for manufacturing and transport and lowers its carbon footprint by an impressive 25%.



Thinner, stronger and with a new texture

> Even though Acrovyn® 4000 is 0,5 mm thinner than classic Acrovyn® it doesn't compromise on strength, becoming the lightest but most resistant wall protection on the market.

And its looks great, too. Acrovyn® 4000 comes with the brand new *Suede* texture: finely grained with a non-glossy and very contemporary appearance.



51 **colours** and finishes for infinite combinations

CS Acrovyn® expands its collection with 26 new colours and new finishes to offer the market's most extensive colour range in wall protection.

Legendary Acrovyn® now provides designers and architects with an almost unbelievable array of colour combinations which can blend with or accent even the hottest design concepts.

With 51 colours and finishes to choose from finding just the right colour scheme is now a question of **your choice**.



40 standard Acrovyn® Colours

available with our standard or new suede



8 Acrovyn® Faux Wood finishes

including Wengue and four brand-new and contemporary oak styles.



3 Acrovyn® Faux Metal finishes

with the captivating looks of real metal but all the properties of Acrovyn[®].



New Suede texture

> We proudly present Suede: new, stylish, contemporary, with a non-glossy appearance and reduced surface texture. All our wall protection sheets are available in either our standard or the new Suede texture (Acrovyn® 4000).



Combine freely: all products are available in all colours

> Need your handrail in the same colour as the crash rail and door protection?

Not a problem with Acrovyn®. No need to consult complicated product-colour tables. **All our products are available in all standard colours**. Only with Acrovyn® it is this simple.



Perfect colour match, guaranteed

> We went to great lengths to ensure you find the perfect colour match. We consulted hundreds of designers and harmonised our new range with products from leading floor, door and wall decoration manufacturers.

What is your favourite combination?

Colour schemes influence the mood and behaviour of building inhabitants and are the reason why designers put such great emphasis on colour.

No matter what ambience you are looking for, finding the right colour combination with Acrovyn® is now just a question of choice: your choice.

Warm, soothing colours inspired by nature



> For warm, comfortable and pleasant living room ambiences **CS** recommends its new colour range inspired by nature.

Soft, low contrast colours create peaceful environments where well-being and aesthetics are primary considerations.

Dynamic, mood-lifting colour combinations

> Dynamic and saturated colours create friendly, mood-lifting atmospheres.

They are also ideal for setting visual differences between floor levels and for colour guidance schemes in large buildings.



Stylish, cool and elegant



> Wall protection can be extremely stylish. Combos of light and dark colours and our exciting metallic finishes can blend with or accent even the most urbane and fashionable environments.

7024 | Graphite





1 | Acrovyn® door handle protection plate 2 | Acrovyn® kick plate 3 | Half height, 2mm Acrovyn® wall protection 4 | Acrovyn® SM20M

corner guard **5** | Acrovyn® 0,8 mm flexible sheet

> suggested application



51 colours for infinite combinations

> No matter what atmosphere you are looking for, with a selection of 51 colours and textures finding the right colour combination is now just a question of choice: your choice.



New suede texture

> New, stylish, contemporary, with a non-glossy appearance and reduced surface texture.

Superior protection for your walls



B-s2, d0 fire rating

cladding materials is insufficient.

> Acrovyn® is B-s2, d0 certified and can be used in many

public buildings areas where the M1 fire rating of other wall

> Acrovyn® 4000 is manufactured in

compliance with RoHS standards, without PVC,

PBTs, BPAs or halogens and a 25% lower carbon

footprint. You won't find any other wall protection

material on the market as environmentally friendly.







Acrovyn® wall cladding 2 | Smooth Acrovyn® door protection 3 | Welded joints for maximum hygiene 4 | Half height, smooth Acrovyn® sheet

> suggested application

Available in 5 colours

Certified cleaning effectiveness

> Smooth Acrovyn® sheets were certified by the renowned Louis Pasteur Institute for their bacteriostatic properties and ease of cleaning. Independently of the chosen cleaning products you will have the guarantee of a hygienic environment without bacterial growth vectors.





For areas with stringent hygienic requirements



maximum hygiene.

801 | Cloud Grey



As strong as much thicker competitors

> Test results prove it. Acrovyn® 0,8 mm wall protection sheets were tested for impact resistance using the Gardner Impact Testing method which works by dropping a heavy object from various heights directly onto the tested material. Acrovyn® 0,8 mm sheets proved to be incredibly strong, equalling in strength its much thicker competitors.



Meet our new collection

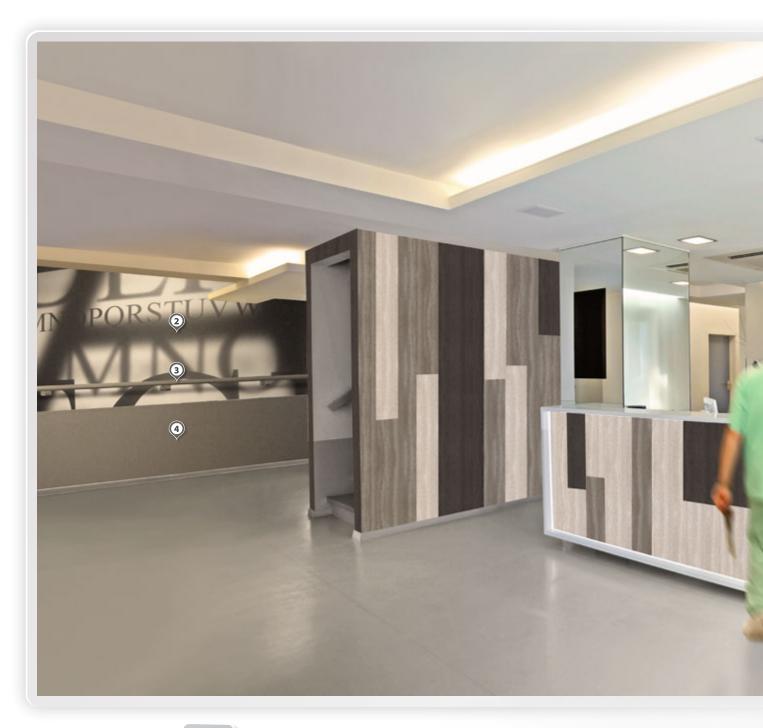
> 40 beautiful standard colours. Meet our new collection which includes no less than 21 new references, expanding our solid colour range to 40 contemporary colours.



0,8 mm CS Acrovyn® sheet is flexible but incredibly strong







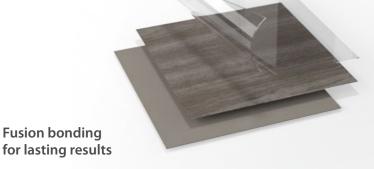


- 1 | Acrovyn® Faux Wood wall protection sheets
- 2 | Acrovyn by Design®
- wall cladding

 3 | MCE 40/45 handrail

 4 | Acrovyn® solid colour
 wall protection sheet
 - suggested application





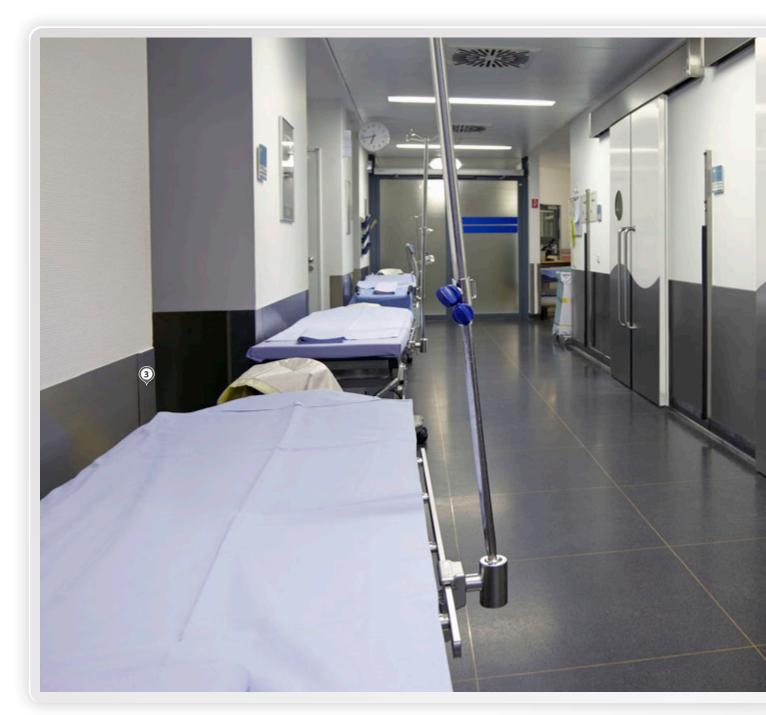
> Our exclusive fusion bonding process ensures Acrovyn® Faux Wood patterns won't wear, scratch or peel off as they become completely integral with the Acrovyn® backing material.

Looks and feels like wood, protects like CS Acrovyn®



7039 | Iron

9003 | Snow White





Precision cutting for infinite design possibilities

> Our Stainless steel sheets can be cut to your custom specifications. No matter if you want it straight, with a stylish wave or semicircular shape, we can deliver a perfect cut thanks to the precision of our high pressure water jet cutting technique.



304 L food approved stainless steel sheets



Beautiful Acrovyn® Faux Wood panels reliably protect walls and doors while harmonizing with the wood based interior design of this hospital ward.





↑ Acrovyn® sheets are incredibly strong and still flexible enough to adjust to curved walls.

An assembly of factory-cut | > colour Acrovyn® sheets have been used for this cheerful wall protection.







An elegant and very effective wall protection has been achieved by combining 2 mm Acrovyn® sheet with Inox wall protection.

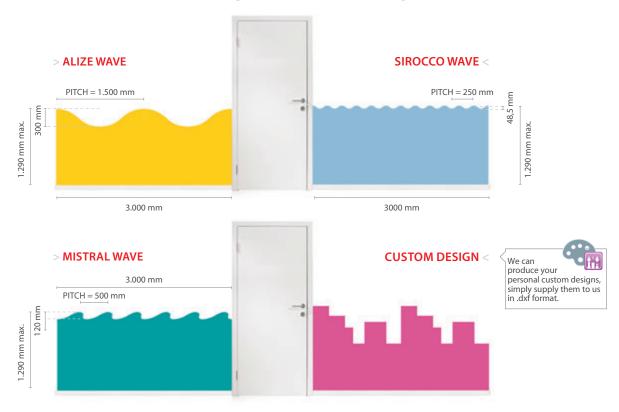


With 40 colours to | > choose from Acrovyn° sheets can blend discreetly into any interior design while efficiently protecting walls.





Standard decorative wall protection shapes



Thermoforming

for wall applications

Put bacteria at bay! Joints in corners, columns and edges constitute breeding grounds for bacteria. Thermoformed Acrovyn® sheets eliminate these hazards by providing a continuous, one piece surface for these difficult to clean areas.





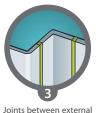
Thermoforming L Type 1 Fold from 45° to 179°



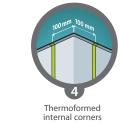
Thermoforming U Type 2 Folds







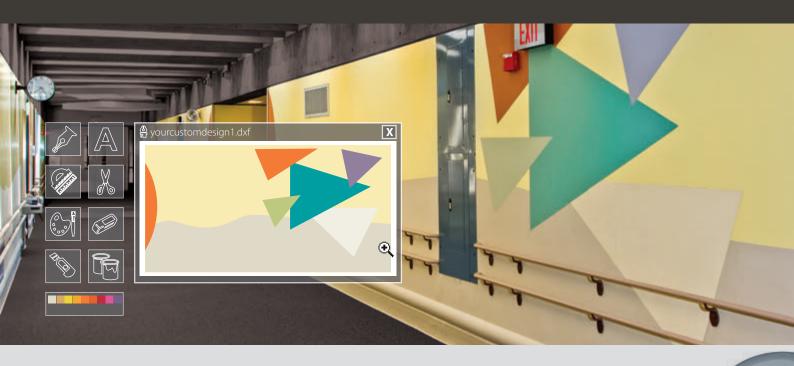
and internal angles





Heat-sealed joint with flexible flooring

CUSTOM DESIGNS, COLLAGE, SHAPES AND SIGNPOSTING



Custom designs, collage, shapes and signposting:

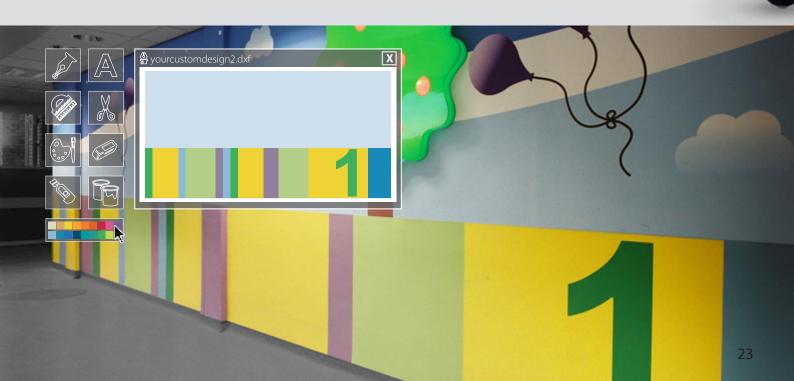




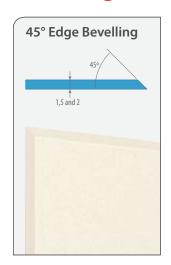
Create your own designs!

Thanks to our advanced computer cutting technology we can manufacture any design. You can choose a standard pattern from our catalogue or create your own design and simply supply it to us in .dxf format.

For help with creating your custom designs please contact our Customer Service Team.

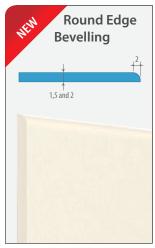


Finishing accessories for wall protection sheets













Factory applied adhesive

Perfect results in minutes. Ready-to-install wall protection sheets of your choice, delivered right to your door: factory cut to the required size and pre-fitted with adhesive strips for immediate and effortless installations.



Tidy and clean applications, no cleaning up



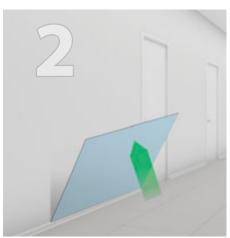
Effortless no specialist



Fast installations. perfect results in minutes.



Remove the protection from the factory applied adhesive strips >>



Put the wall protection sheet in position and press against the wall



Done! A perfect result in less than 5 minutes.

INSTALLATION ACCESSORIES





UNIDUR N PrimerCoverage: 0,1 kg/m2



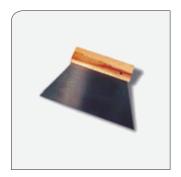
Glue SADER TAC V6 Confort

Easy and odourless gluing Coverage : 0,25 kg/m2



Glue CS4000

Water based adhesive 3 pouches of 7 kg Coverage: 0,085 to 0,3 kg/m2



Spreader n°1- A2

one spatula per 150 m²



Dry contact adhesive 85

Rolls, 50 m length



OTTOCOLL TopFix

300 ml cartridge, ideal for absorbent surfaces 1 cartridge/m²



Drum cartridge gun

Complete kit with 2 drums



Glue MSP 108

300 ml cartridge, ideal for wet environments and non-absorbent surfaces. 1 cartridge/m²



Durospray DS 525 SRM

17,25 kg (22l), applied with spray gun. Average consumption 150 g/m², suitable for humid environments



Spray gun Durospray

Spray gun kit with 4 m hose



Pressure roller

with grip



Paint remover AGS 560

500 ml Spray



Welding equipment

Complete kit



Welding rod

- For sheet thickness of 2 mm
- Roll 100 m length
- 40 Acrovyn® colours available



Craft knife

for Acrovyn® sheets



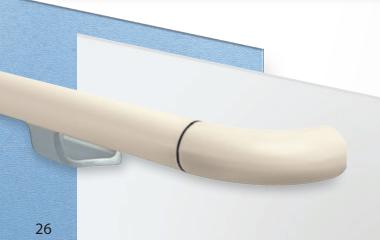
Coloured silicone

- 300 ml Cartridge
- 40 colours available
 1 cartridge/20 lm

11 | Agua Blue

9003 | Snow White





An authentic breakthrough in the fight against microbial infections.

The only bactericidal wall protection system on the market

Don't give bacteria a chance!

Nosocomial infections are a serious concern of any health sector establishment. To help combat this threat CS France has developed Acrovyn® Bactericide, a novel material that pro-actively kills bacteria through surface contact alone.

Acrovyn® Bactericide is the only wall cladding material and handrail on the market certified with the ISO norm 22196 and the ideal solution for areas where hygiene cannot be compromised.

Killing bacteria by "touch"

> All bacteria settled on the surface of Acrovyn® Bactericide are killed within a maximum time span of 24 hours. This bactericide effect is completely safe to humans but relentless on bacteria, guaranteeing unsurpassed hygienic conditions.

Wall cladding material Bacterial activity

4

4

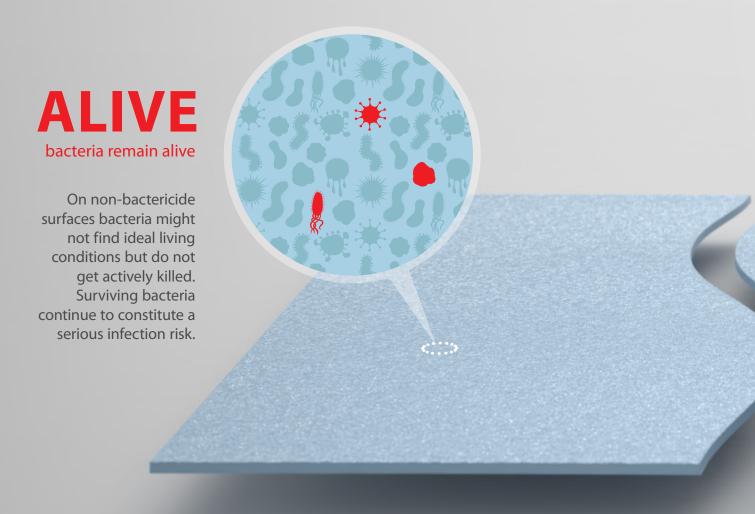
Acrovyn®Bactericide	bactericide
Competitors	bacteriostatic
Wood	inactive
Laminated panels	very little active
Fibre glass	inactive
Stainless steel	very little active
Vinyl covering	inactive
Ceramic tiles	inactive
Stone - granite - marble	inactive
_	· · · · · · · · · · · · · · · · · · ·

Impact of nosocomial infections

[...]Nosocomial infections are also one of the leading causes of death (5). The economic costs are considerable (6,7). The increased length of stay for infected patients is the greatest contributor to cost (8,9,10)[...]

SOURCE: WORLD HEALTH ORGANISATION

They may look similar...



Ordinary wall protection sheet

Don't get confused by terminology...

....100% hygienic...

Being hygienic doesn't imply any proven action on bacteria, nor is the term measurable or quantifiable by any scientific parameters.



....antibacterial...

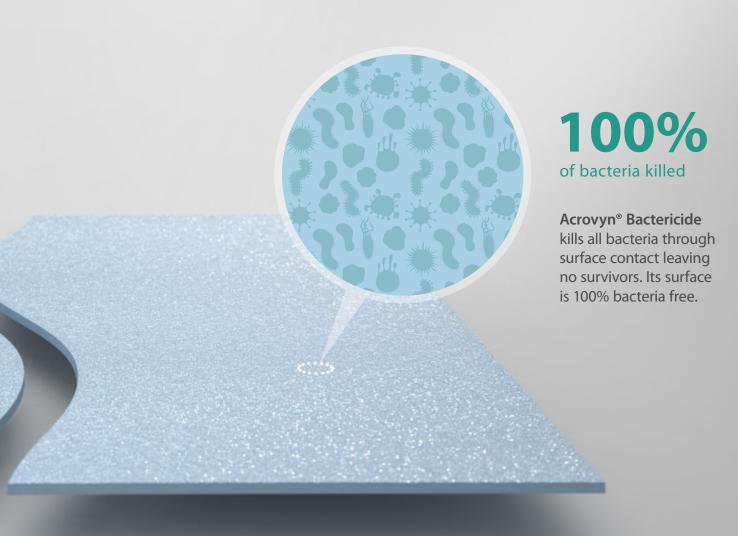
The term is commonly defined by "destroying or inhibiting the growth of bacteria" but there is no scientific criteria to measure this quality.



....bacteriostatic...

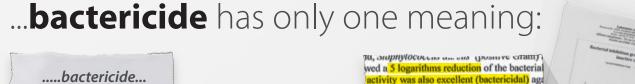
Biocide norm EN 1040 describes this term only as a reduction of the bacterial population implying clearly that there are survivors.





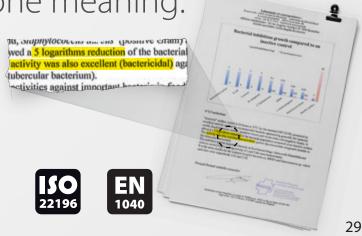
CS Acrovyn® Bactericide

...but they are **NOT** the same.



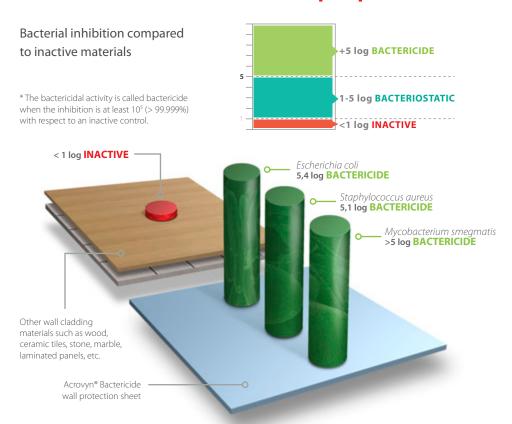
A plastic surface can only be called bactericide if 100% of all bacteria are eliminated, i.e. there are no living survivors. This is determined by the ISO 22196 test procedure and quantified by the Biocide product norm EN 1040.

Acrovyn®Bactericide is the only truly bactericide wall protection on the market.





certified with bactericidal properties





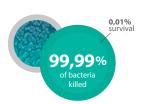
Tested on 7 of the most common hospital and food bacteria

Escherichia Coli



Activity in log: 5,4 log Inhibition: 100% Survival: 0% Classification: Bactericidal

Salmonella Enteridis



Activity in log: 4,1 log Inhibition: 99,99% Survival: 0,01% Classification: Bacteriostatic

Staphylococcus aureus



Activity in log: 5,1 log Inhibition: 100% Survival: 0% Classification: Bactericidal

Listeria monocytogenes



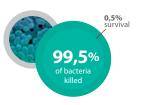
Activity in log: 2,661 log Inhibition: 99,5% Survival: 0,5% Classification: Bacteriostatic

Mycobacterium smegmatis



Activity in log: >5 log Inhibition: 100% Survival: 0% Classification: Bactericidal

Enterococcus sp.



Activity in log: 2,28 log Inhibition: 99,5% Survival: 0,5% Classification: Bacteriostatic

SARM



Activity in log: 3,92 log Inhibition: 99,99% Survival: 0,01%

Classification: Bacteriostatic

Interpretation of ISO 22196 test results

The norm ISO 22196 describes a standard method for measuring the bactericidal properties of plastic surfaces but does not offer any interpretation of the results.

Biocide product norms such as EN 1040 can be used to interpret the bactericidal activity determined by ISO 22196:

bactericide: 5 or higher **bacteriostatic:** between 5 and 1 **inactive:** lower than 1





- ← | Full height Acrovyn® Bactericide wall cladding in an operating theatre.
- ◆ | Half height Acrovyn® Bactericide wall protection sheets in a hospital ward.

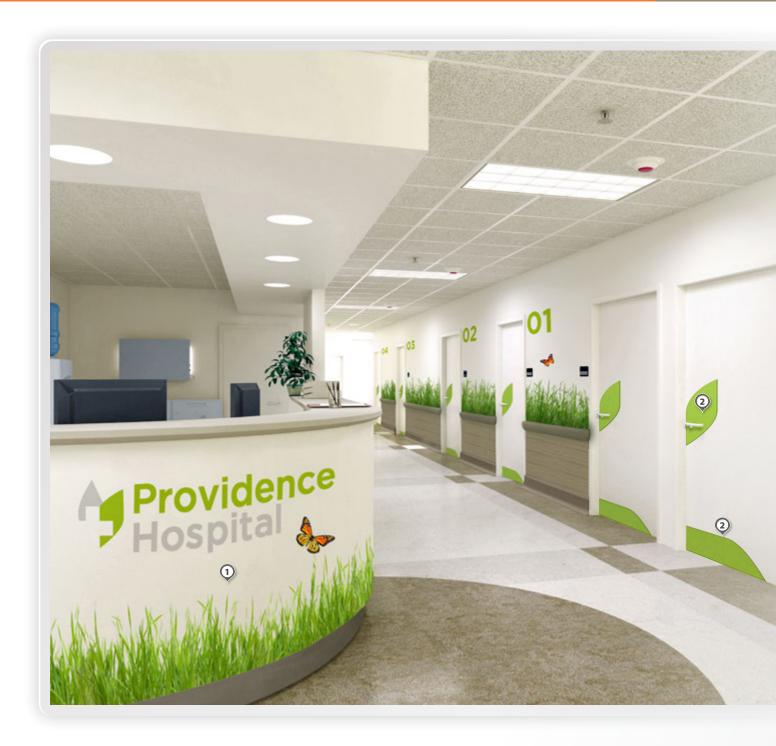


Half height **Acrovyn®** | → Bactericide wall protection sheets on a curved hospital corridor.

Half height Acrovyn® | ◆
Bactericide wall protection sheets in a surgery room.









Superior wall protection with unlimited visual possibilities

1 | Acrovyn by Design® wall protection sheet 2 | Acrovyn® door kick and push plate 3 | Full height, Acrovyn by Design® wall cladding 4 | Acrovyn® hand/crash rail HRB35

> suggested application

> Acrovyn by Design® can also be a great visual communicator. Adding your company logo, branding graphics, directory or wayfinding signs into your wall protection will personalise your environment in a fresh and groundbreaking way.

WAYFINDING





Tough as nails CS Acrovyn® meets digital print



CS Acrovyn by Design® looks great and saves you money, too

While ordinary wall imagery becomes easily damaged and requires frequent -and costly- replacements, Acrovyn by Design® will offer not only heavy duty protection to your walls but also preserve the image's brand new appearance for years to come.

Acrovyn by Design® Technology

Acrovyn by Design® uses a clear, impact resistant sheet as its protective layer and cutting edge digital printing technology to deliver brilliant images.



0,2 mm high resolution digital print layer

0,3 mm protective Acrovyn® backing









Chemical resistance

Designs that are great for walls can also be great for doors



CHILDREN'S IMAGERY



WOOD TEXTURE



NATURE



ABSTRACT BACKGROUNDS



TEXTURE



PHOTOGRAPHY



SIGNAGE



COLOURS



BRANDING



STONE

How to order CS Acrovyn by Design®





If you don't have the artwork but still want by Design® we can buy the artwork or create a specific design for you.



We panel the final artwork over one or several Acrovyn® sheets to ensure a perfect fit to your wall.

PRINTING

ensure a perfect result and true colour accuracy



X INSTALLATION

You will receive the panels ready to be installed with the adhesive solution of your choice.



- **←** | **Acrovyn by Design®** bed locators protect the wall and add life and friendliness to this hospital room.
- ♣ | Full height Acrovyn by Design® sheets decorate and protect the wall of this children hospital ward.



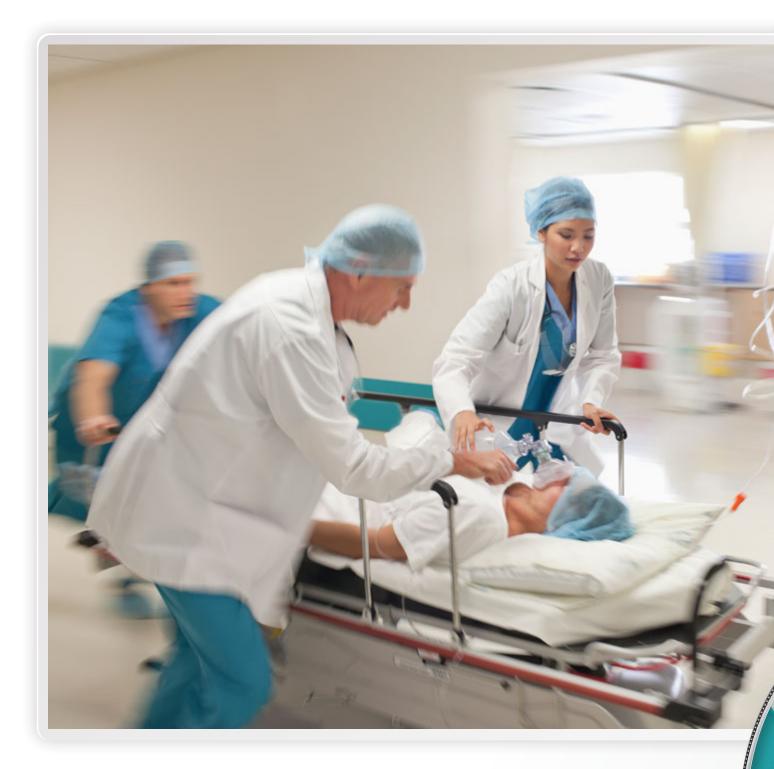
↓ | Full height Acrovyn by Design® sheets protect this busy elevator area and add visual depth. with a soothing image of





↑ | Acrovyn by Design® sheets protect the wall of this waiting area with refreshing style.







1 | Half moon push plate in 2 mm Acrovyn® sheet 2 | Half height door protection plate in 2 mm Acrovyn® sheet with custom cut 3 | TP 200 Rub rail

> suggested application

Unprotected doors can become expensive

> Acrovyn® doors are much cheaper in the long run. Acquisition is only part of the expenditure with maintenance and repair being a main contributor to total costs. Lifecycle studies compared the total costs of purchasing and maintaining different types of doors over a 10-year period, confirming the substantial saving benefits of Acrovyn® Doors.



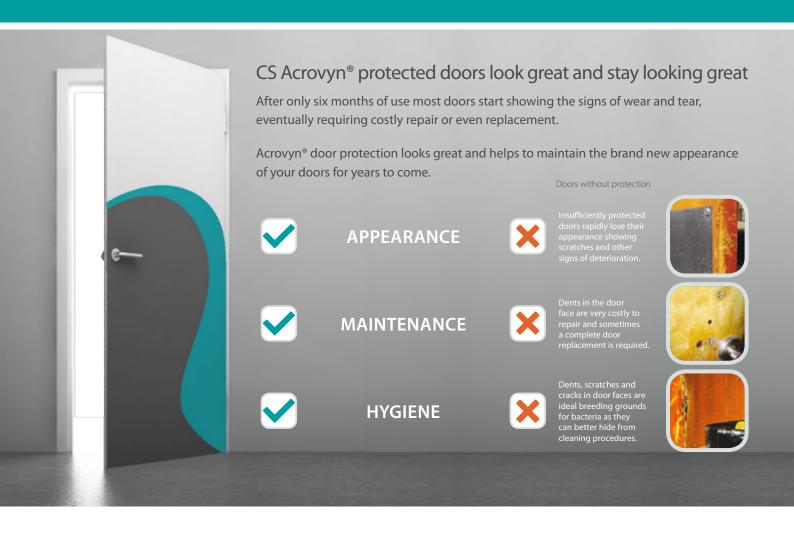
Hollow metal

High pressure CS Acrovyn®

There are doors that better be CS Acrovyn® Doors

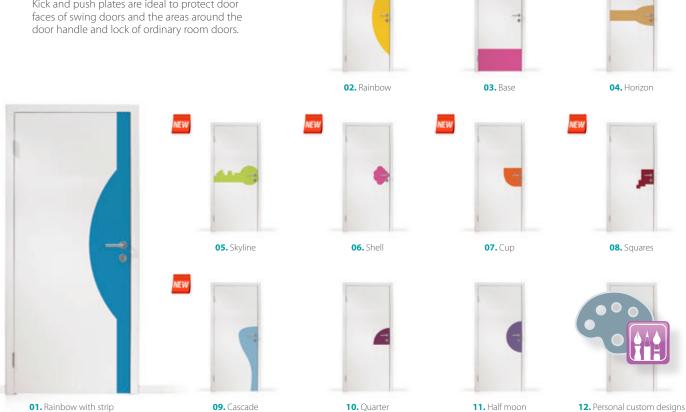






> Kick & push plates

Kick and push plates are ideal to protect door



Protect your doors with colour and style



Designed for doors that need to resist

Wood veneer and high pressure laminate just can't handle the same abuse as durable Acrovyn® nor offer its superb impact resistance. For this reason Acrovyn® has been chosen by tens of thousands of hospitals and schools worldwide.











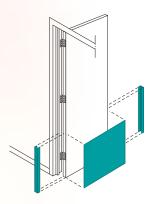
resistance

BASIC SHEET WITH U-PROFILES

Ideal for heavily abused doors.

Door edges are protected by thermoformed U-profiles while sheets with bevelled edges cover both door faces.

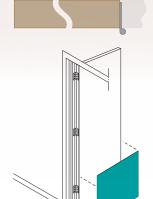
Door edges will have to be reduced by the thickness of the Acrovyn® sheet (2 mm)





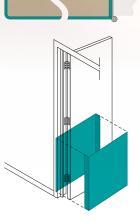
BASIC PROTECTION

A straightforward, effective and easy to fit door protection. Ideal for retrofit applications.



TWO THERMOFORMED PARTS IN L-SHAPE

A thorough door protection as its two L-shaped thermoformed plates protect the door faces and its edges.

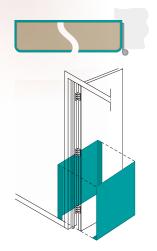


APPLICATION FOR WET AREAS

Especially designed for humid or wet environments.

A U-shaped panel protects one face and both door edges. An L-shaped panel protects the other face and the underside of the door.

To be used with glue MSP 108.



PROTECTION OF FRAMES

Acrovyn® sheets are cut to the exact dimensions of wooden or metal door frames and are then thermoformed in one piece to protect door rebates and frames.



INFINITE DESIGN APPLICATIONS





- Straight half height | •
 Acrovyn® sheet in matching door colour.
 - Straight half height | > Acrovyn® sheet in contrasting colour.



- ↑ | Acrovyn by Design® was used for the left door leaf and standard Acrovyn® sheet for the right.
- ↓ 2 mm and 0,8 mm custom cut Acrovyn® sheet make up this cheerful protection.

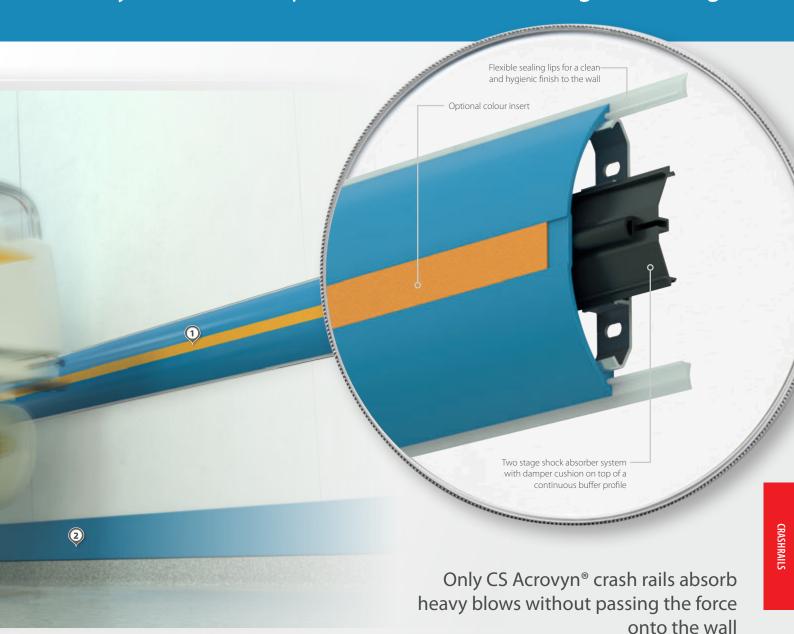


← | Full height Acrovyn® door protection with cut out room number to reveal wooden door face.





Only the best wall protection is sometimes good enough

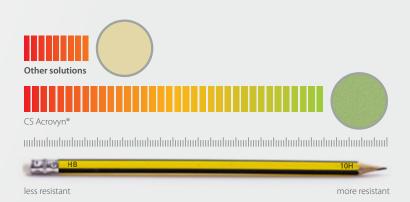




The shock absorber difference

> Acrovyn® crash rails deform under impact immediately recovering its original shape. Their internal shock absorbers dissipate the impact energy along the length of the crash rail and away from fixtures, preventing them from loosening or breaking.

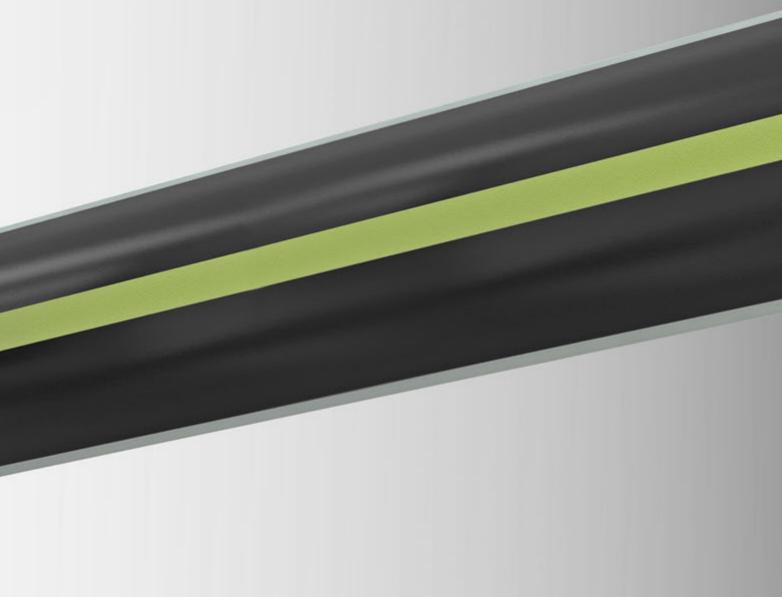
Behind the sleek and elegant lines of Acrovyn® crash rails you will find shock absorbers engineered with state of the art technology and top quality materials to provide heavy duty impact resistance where you most need it.

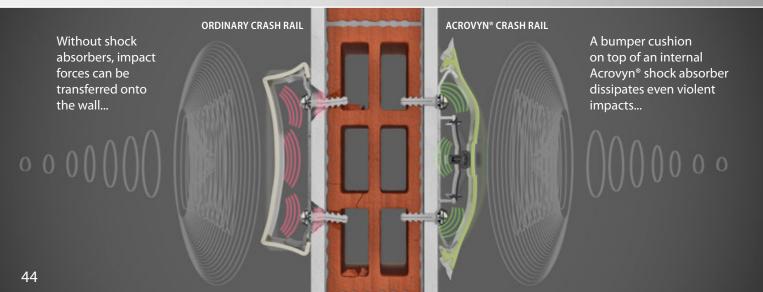


Our unique Acrovyn® texture conceals scratches much better

> Acrovyn® is highly scratch resistant but if a scratch occurs our unique texture conceals it preserving its brand-new look.

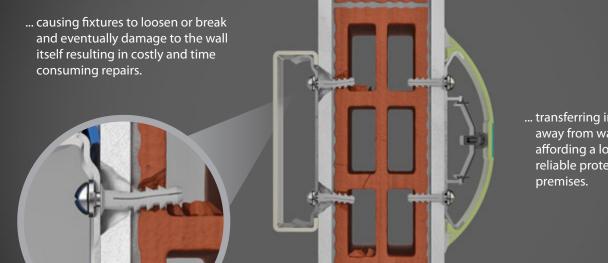
Looks great from the outside...







the cover. Unlike ordinary bumper guards, only Acrovyn®'s range of heavy duty crash rails have been engineered with internal shock absorbers to channel the force of violent impacts away from walls and fixtures to afford reliable and great looking protection for years to come.



... transferring impact forces away from wall and fixtures, affording a long lasting and reliable protection to your



← | The extra-wide rub rail TP300 protects the lower part of the walls. Corner guards SSM20 and the **combined handrail** crash rail HRB20 complete the wall protection scheme.





- Crash rails SCR80 and SCR50 protect walls from hospital equipment.
- ← | SCR80 crash rails and TP200 rub rails have been used in this hospital corridor for wall and door protection.







- ↑ | SCR50 crash rails mounted at low- and mid-height provide a discreet but very effective wall protection.
- Aronde 170 crash rail mounted at mid-height. The decorative insert can also be used for colour guidance schemes.



★ The stylish curves of the SCR80 crash rail discreetly hug the wall while offering effective impact protection from hospital equipment.

SCR80M | ACROVYN®

A stylishly curved profile with impressive impact protection

- Acrovyn® cover over a continuous aluminium retainer for extra resistance and heavy duty applications (SCR80M)
- An economic version with aluminium mounting brackets at 600 mm centres is also available (SCR80)
- Free-floating cover flexes on impact, neutralising the force
- An internal, continuous, shock-absorbing bumper profile provides top of the range impact protection



4.000x203x35 mm



- Standard end cap
- External corner
- Decorative insert in black
- Splice plate





SCR80M Heavy duty



SCR80











specification texts <u>www.c-sgroup.eu/?p=384</u>

SCR80M | FAUX WOOD, BRUSHED METAL AND CARBON

Beautiful natural colours and textures, heavy duty impact protection

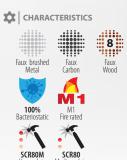
- Acrovyn® cover over a continuous aluminium retainer for extra resistance and heavy duty applications (SCR80M)
- An economic version with aluminium mounting brackets at 600 mm centres is also available (SCR80)
- Free-floating cover flexes on impact, neutralising the force
- An internal, continuous, shock-absorbing bumper profile provides top of the range impact protection

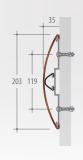


▲ 4.000x203x35 mm



- · Standard end cap
- External corner
- · Decorative insert in grey
- Splice plate















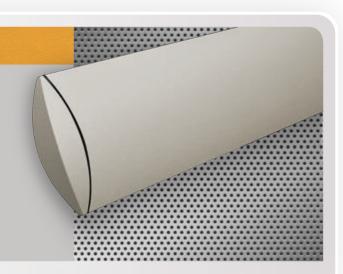




SCR50M | ACROVYN®

Sleek and stylish appearance, heavy duty performance

- Acrovyn® cover over a continuous aluminium retainer rail for extra resistance and heavy duty applications (SCR50M)
- An economic version with aluminium mounting brackets at 600 mm centres is also available (SCR50)
- Free-floating cover flexes on impact, neutralising the force
- An internal, continuous, shock-absorbing bumper profile provides for top of the range impact protection



4.000x127x27 mm



- Standard end cap with decorative insert in black
- External corner
- Splice plate





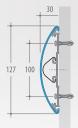
SCR50M Heavy duty



SCR50 Medium duty









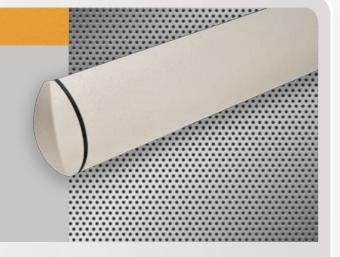


| specification texts | wwww.c-sgroup.eu/?p=387

FR225 | ACROVYN®

A discreet and lightweight rub rail you can rely on

- Acrovyn® cover over continuous aluminium retainer
- Low profile crescent shape
- Free-floating design flexes on impact, neutralising the force



4.000x57x19 mm

ACCESSORIES

- Standard end cap with decorative insert in black
- External corner













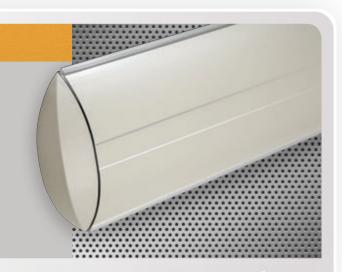


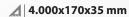
specification texts <u>www.c-sgroup.eu/?p=388</u>

ARONDE170 | ACROVYN®

Engineered for highly demanding applications but with design versatility in mind

- · Heavy duty version with continuous vinyl bumper rail and aluminium mounting brackets at 600 mm centres (Aronde170)
- Economic version, with aluminium mounting brackets at 600 mm centres only (Aronde170E)
- Flexible closing lips ensure a hygienic and sealed finish to the wall
- Decorative inserts allow for stylish colour combinations and guidance schemes







- Standard end cap
- · External corner
- Splice plate
- Decorative contrast insert in 40 colours





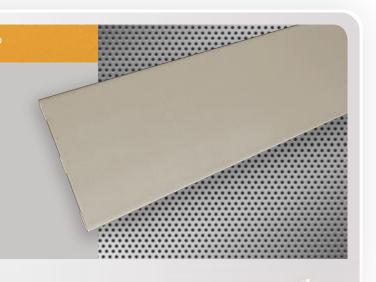


specification texts <u>www.c-sgroup.eu/?p=6867</u>

TP100-150-200-300 | ACROVYN®

Light duty rub rails maximise corridor space while offering reliable impact and scratch resistance

- Available in four heights to suit project requirements
- Bull-nose edges mould profile to the wall
- Fast and effortless installation with factory applied adhesive strips (optional)

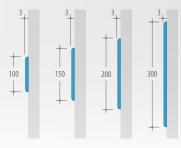


4.000x100x3 mm 4.000x150x3 mm 4.000x200x3 mm 4.000x300x3 mm



- Preformed internal and external corners
- Optional adhesive strips







specification texts <u>www.c-sgroup.eu/?p=390</u>



| specification texts | www.c-sgroup.eu/?p=8515



ARONDE170 - 170E



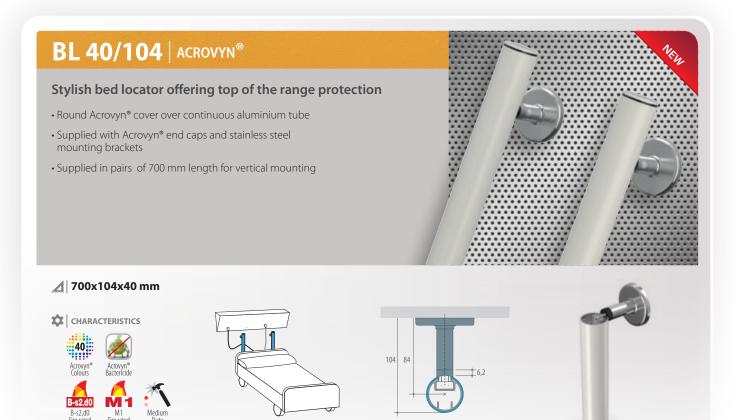
TP100-150-200-300



BI 40/104



BL HRB4C/76-174











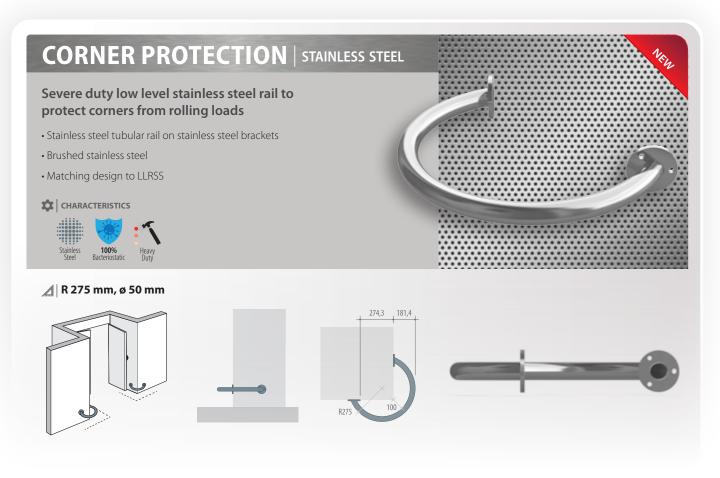




CRS100-150-200

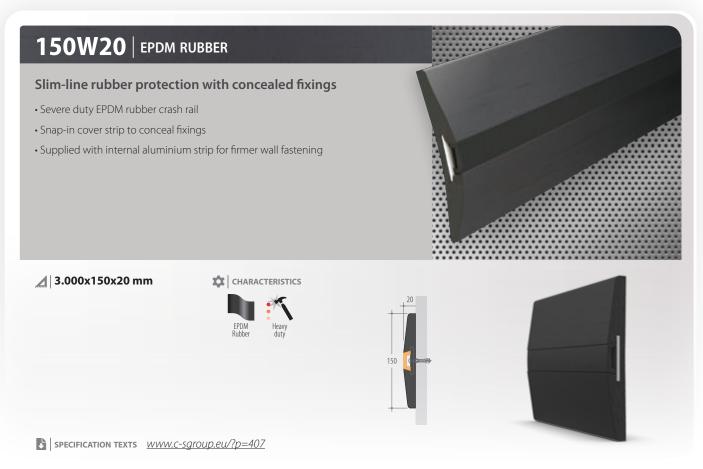
LLRSS





specification texts <u>www.c-sgroup.eu/?p=406</u>

200 mm high EPDM rubber crash rail for extreme industrial applications Severe duty EPDM rubber crash rail Suitable for interior and exterior applications Available in two thicknesses to suit project requirements CHARACTERISTICS ACCESSORIES Light reflective, self adhesive tape inserts



| SPECIFICATION TEXTS | www.c-sgroup.eu/?p=408









OD .







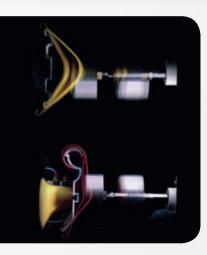
12 | Cobalt Blue

100 | Eggshell



Engineered for performance and good looks



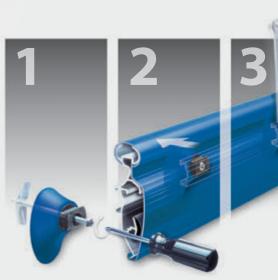


Install or remove in half the time with Quick Install®

STEP 1: Quick Install® brackets are fixed onto the wall at appropriate heights.

STEP 2: Simply place handrail assembly over the Quick Install® bracket.

STEP 3: One quarter turn with supplied wrench to lock handrail in place.









↑ For this hospital the HRB20 profile had been chosen to offer handrail support to patients while protecting walls from impacts.





- ← | HRB20 hand/crash rail contrasts with the wall colour.
- ➡ HRB4C profiles in matching wall colour mounted on half height Acrovyn® sheet form a clean and unobtrusive wall protection.



- ← | The handrail profile of the HRB20 handrail-crash rail can be chosen in contrasting colours, wood or metal textures to create fashionable duo-colour combinations.
- Stylish **HRB35** and matching | > half-height **Acrovyn® sheet** combine into a contemporary wall protection assembly.



HANDRAILS - BUMPER GUARDS

HRB20 ACROVYN®

Stylish and hard wearing handrail-crash rail combo for high traffic circulation routes

- Beautiful colour combinations can be used to provide visual contrast and for colour guidance schemes in hospitals
- Oval Acrovyn® handrail for 335° grip surface and Acrovyn® crash rail over continuous aluminium retainer
- Shock-absorbing bumper cushion for increased impact protection
- Easy and fast to install thanks to its Quick Install® fixture system



4.000x143x38 mm

ACCESSORIES

- Mounting brackets
- · Standard end cap
- External and special corners
- Splice plate
- Removable kit for service duct
- Quick Install® spanners







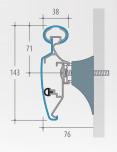








Acrovyn^o Colours





specification texts <u>www.c-sgroup.eu/?p=134</u>

HRB20 | FAUX WOOD, BRUSHED METAL AND CARBON

Stylish and hard wearing handrail -crash rail combo for high traffic circulation routes

- Beautiful colour combinations can be used to provide visual contrast and for colour guidance schemes in hospitals
- Oval Acrovyn® handrail for 335° grip surface and Acrovyn® crash rail over continuous aluminium retainer
- Shock-absorbing bumper cushion for increased impact protection
- Easy and fast to install thanks to its Quick Install® fixture system



▲ 4.000x143x38 mm

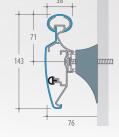
* ACCESSORIES

- Mounting brackets
- Standard end cap
- External and special corners
- · Splice plate
- Removable kit for service duct
- Quick Install® spanners









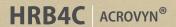


specification texts <u>www.c-sgroup.eu/?p=134</u>









Effective handrail - bumper guard with a fluid minimalist design

- Single piece Acrovyn® cover over continuous aluminium retainer
- Free-floating design flexes on impact, neutralising the force
- Shock-absorbing bumper cushion for increased impact protection



4.000x140x38 mm



- Mounting brackets
- Standard end cap
- External and special corners
- Internal and special corners
- Splice plate

















| specification texts | www.c-sgroup.eu/?p=371

HRB35 ACROVYN®

Sleek and stylish handrail - crash rail combo

- Oval Acrovyn® handrail for 335° grip surface
- Acrovyn® crash rail cover over continuous aluminium retainer
- Free-floating design flexes on impact, neutralising the force
- Easy and fast installation thanks to its Quick Install® fixture system



4.000x89x38 mm



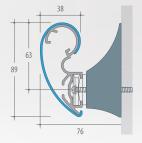
- Mounting brackets
- Standard end cap
- External and special corners
- Splice plate
- · Removable kit for service duct
- Quick Install® spanners

CHARACTERISTICS







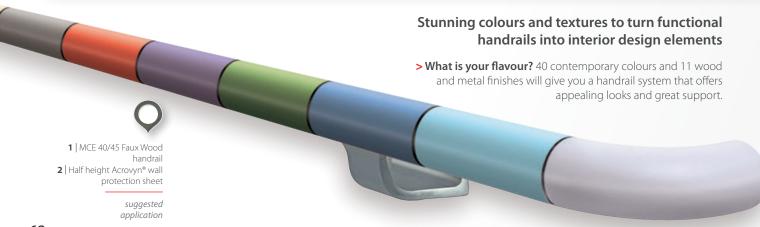




specification texts <u>www.c-sgroup.eu/?p=6865</u>



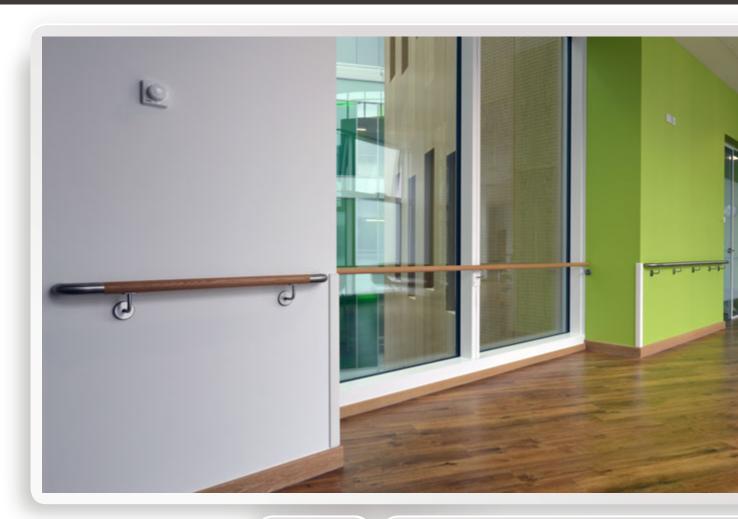




A firm grip with a comfortable touch and feel







Hospital corridor | >
with HRO6 Faux
Wood handrails and
matching Faux Wood
Acrovyn® protection sheets.





← | Acrovyn® Bactericide MCE 40/45 handrail with matching **Aronde**170 crash rail.



← | A stylish combination of MCW40/45 solid beech and MCE40/45 Aluminium handrails.





HRO6 handrails with | → stainless steel fixing brackets in hospital hall and half-height Acrovyn® wall protection sheets.

- ↑ | Hydrotherapy pool with MCE40/45 Faux Carbon handrail.
- Geriatric residence equipped with MCE 40/45 Bactericide handrails with aluminium fixing brackets.





The only handrail that pro-actively kills bacteria

- The only handrail in the market with "Bactericide" certification (test reports upon request)
- Its ergonomic design allows for a firm grip while the hand can slide comfortably past the fixing brackets without touching them
- Handrail can be installed to curved walls (minimum radius 1 m)









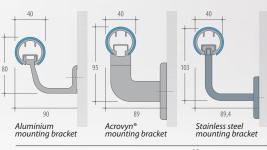








- Aluminium mounting brackets
- Stainless steel mounting brackets
- Acrovyn® mounting brackets in Snow White 9003 or Dove Grey 24
- Standard end caps and end stops
- External, internal, universal corners
- · Support plug for end cap
- Removable kit for service duct
- Universal corner adaptor for stairs
- Decorative rings in black
- Splice plate



FOR MORE INFORMATION ON MOUNTING BRACKETS PLEASE SEE page 68

specification texts <u>www.c-sgroup.eu/?p=6851</u>

MCE40/45 | ACROVYN® FAUX WOOD

The warm look and feel of wood with the ruggedness and ease of maintenance of CS Acrovyn®

- Acrovyn® Faux Wood cover mounted over a continuous aluminium retainer for extra stability and sure grip
- Handrail can be installed to curved walls (minimum radius 1 m)









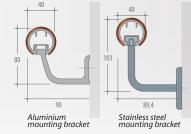




4.000x40x40 mm



- Aluminium mounting brackets
- Stainless Steel mounting brackets
- Standard end caps and end stops • External, internal and universal corners
- Support plug for end cap
- Removable kit for service duct
- Universal corner adaptor for stairs
- Decorative rings in grey
- Splice plate







specification texts <u>www.c-sgroup.eu/?p=6853</u>







MCE40/45 FAUX WOOD-METAL





The cool and elegant look of metal with the warm and sure grip of CS Acrovyn®

- Acrovyn® Faux Metal cover mounted over a continuous aluminium retainer for extra stability and sure grip
- Handrail can be installed to curved walls (minimum radius 1 m)

CHARACTERISTICS

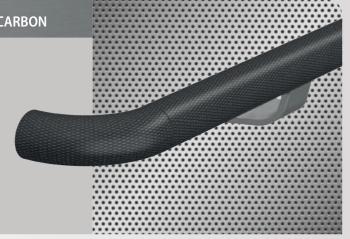








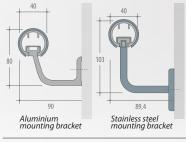




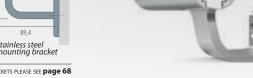
4.000x40x40 mm



- Aluminium mounting brackets
- Stainless Steel mounting brackets
- Standard end caps and end stops
- External, internal and universal corners
- Support plug for end cap
- Removable kit for service duct
- Universal corner adaptor for stairs
- Decorative rings in black
- Splice plate







specification texts <u>www.c-sgroup.eu/?p=6853</u>

MCE 40/45 | ALUMINIUM

Real aluminium handrail never goes out of style

- Rugged aluminium profile with highest quality anodisation
- Infill strip closes off retainer groove providing a continuous 'easy clean' surface
- · Handrail profile can be curved





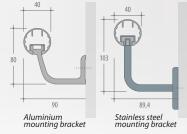




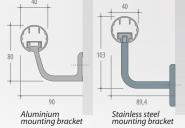
4.000x40x40 mm



- Aluminium and Inox mounting brackets
- 32 mm Alu bracket for curved handrails
- Standard end cap
- Support plug for end cap
- External/Internal/universal corners
- Universal corner adaptor for stairs • Removable kit for service duct
- Decorative rings in black
- Splice plate

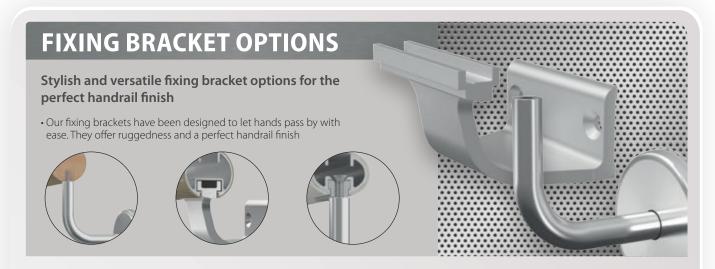


FOR MORE INFORMATION ON MOUNTING BRACKETS PLEASE SEE **page 68**









FIXING BRACKETS FOR THE MCE40/45 HANDRAIL

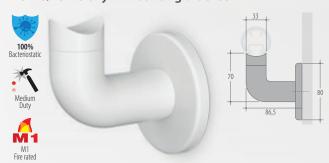
MCE40/45 anodised Aluminium mounting bracket



Stylish fixing bracket in aluminium with a high quality anodised finish.

____ 54,5x78x80 mm

MCE40/45 Acrovyn® mounting bracket



Acrovyn® fixing bracket available in Snow White (9003) and Dove Grey (24).

■ 95x86,5x80 mm

MCE40/45 anodised Aluminium ECO mounting bracket



Sturdy aluminium bracket for projects on a tight budget. Excellent cost to quality ratio. 🔏 |66,5x78,5x60 mm

MCE40/45 Stainless Steel mounting bracket



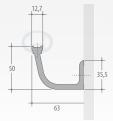
Elegant bracket in polished stainless steel with snap-on cover to conceal screw fixings. 🔎 | 107x75,4x64,7 mm

FIXING BRACKETS FOR THE HRO6 HANDRAIL

HRO6 Aluminium mounting bracket



Stylish fixing bracket in aluminium with a high quality anodised finish.





HRO6 Stainless Steel mounting bracket



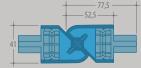
Elegant bracket in polished stainless steel with snap-on cover to conceal screw fixings. 🔏 | 100,8x75,4x64,7 mm

UNIVERSAL CORNER ADAPTOR FOR STAIRS

Building continuous handrail systems made easy

- One adaptor fits all situations. Rotation around two axes allows the adaptor to accommodate any required angle and staircase configuration
- Makes it easy to build continuous handrail systems



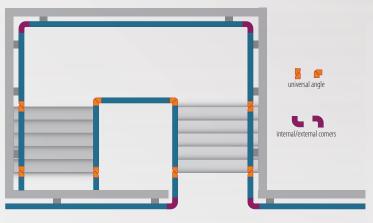












MCE40/45 handrail

Continuous handrail systems that connect staircase with floor level handrails can be built effortlessly with the universal angle adaptor

REQUIREMENTS FOR STAIRCASES OF PUBLIC PREMISES

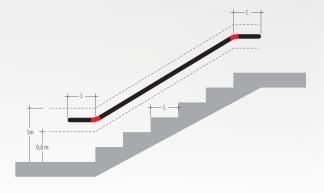
Staircases in premises open to the public must be equipped with handrails on each side.

The handrail systems must be compliant with the following requirements:

• Installation at a height

of 0,80 m to 1,00 m.

- The handrail must be extended on each flight beyond the first and last step for the length of at least one tread.
- The handrail must be continuous, rigid and allow for an easy grip.















The soothing touch of real wood

- Untreated timber handrail in solid beech for on-site assembly, delivered in standard length of 2000 mm
- Premium quality timber, steamed for extra stability and durability
- Custom size, ready-to-install handrail kits are available upon request in three varnish colours (Mahogany, Golden Oak or Walnut)



2.000x40x40 mm



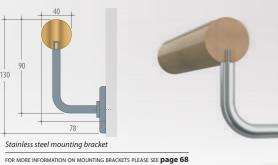


- Stainless steel mounting brackets
- Standard end cap
- Stainless steel end cap





- External/Internal corners
- Round end stop
- Removable kit for service duct





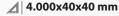
specification texts <u>www.c-sgroup.eu/?p=6857</u>

VISION | TRANSPARENT POLYCARBONATE

Futuristic transparent looks with all the features of a top grade handrail

- Extruded, highly resistant polycarbonate offering a warm and pleasant touch with an excellent grip
- Available in five transparent colours
- Allows for eye-catching interior LED illumination







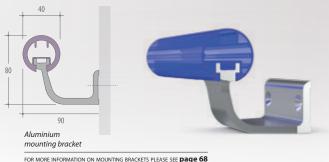








- Polished aluminium mounting brackets
- Standard end special end caps
- External/Internal corners
- Splice plate
- Removable kit for service duct



specification texts <u>www.c-sgroup.eu/?p=6859</u>





Reliable, long lasting protection for all types of corners



CS Acrovyn® protects corners with refreshing style

There are few architectural elements of busy hospital areas more prone to impact damage than columns and corners.

The heavy duty impact resistance of Acrovyn® corner guards, available in 51 colours and textures, will protect your corners from crumbling and keep your premises in flawless conditions with refreshing style.

A corner guard for every design need

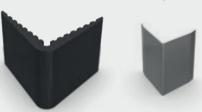


Available in all Acrovyn® colours independent of the fixing method (screw or glue fixed).

Industrial grade protection in EPDM rubber for logistics areas or loading bays. Stainless steel corner guards are ideal for industrial kitchen areas.



Reliable protection for non-standard corners of up to 175°, either screw or glue fixed.





20x more resistant than real wood

> Acrovyn® Faux Wood looks like real wood but is as a matter of fact **20 times more resistant than solid timber**. Now you can prevent the damage to corners with trend setting style and without the maintenance cost of real timber.



CORNER GUARDS





♦ | Half-height **SSM20 corner** guard in combination with handrail HRB20 and low level crash rail SCR50.



Full height **SM20M corner** | **> guard** protects this non-standard corridor corner.

Full height **SO75** protects | corners and gives a perfect finish to **Acrovyn® wall protection sheets**.









Walls are protected | ↑
with half-height
SSM20 corner
guards and matching
SCR80 crash rails, for
doors TP200 rub rails
had been chosen.





specification texts <u>www.c-sgroup.eu/?p=8489</u>

SCREW FIXED CORNER GUARDS









SSM20 | FAUX WOOD, BRUSHED METAL AND CARBON

Natural looks, top grade protection

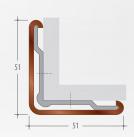
- Shock absorbing Acrovyn® cover over continuous, surface mounted aluminium retainer
- Designs with natural looks thanks to Acrovyn® Faux Wood or Metal finishes
- Free floating cover flexes upon impact, neutralising the shock force and protecting the wall from damage

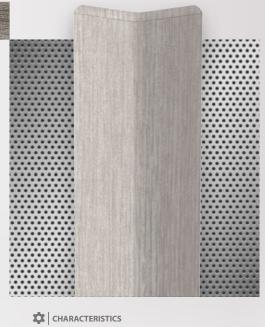
3000x51x51 mm



• Top and bottom end caps



















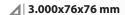


SPECIFICATION TEXTS <u>www.c-sgroup.eu/?p=398</u>

SM20M | ACROVYN®

Heavy duty guards for non standard corners

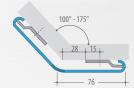
- Shock absorbing Acrovyn® cover clipped over two continuous, surface mounted aluminium retainer profiles
- •The co-extruded Acrovyn® cover sports a flexible centre to allow for corner angles of 100 to 175°

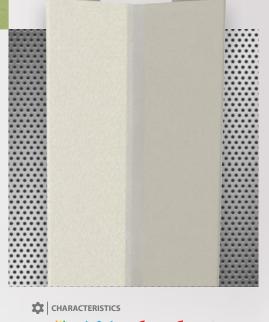




 Top and bottom end caps only available in 135°



















GLUE FIXED CORNER GUARDS





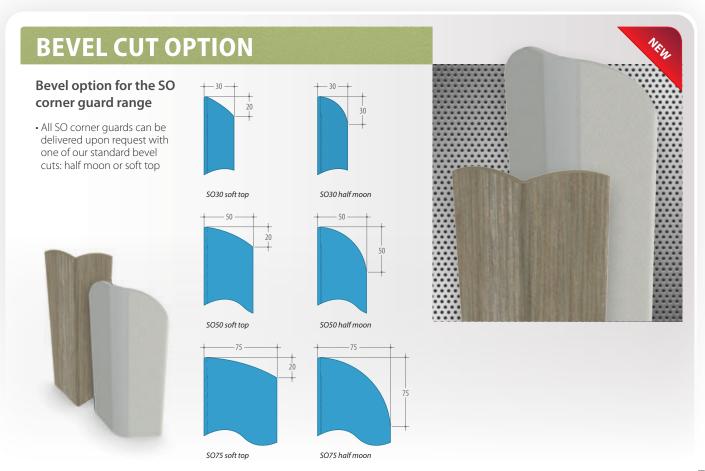




S030-50-75











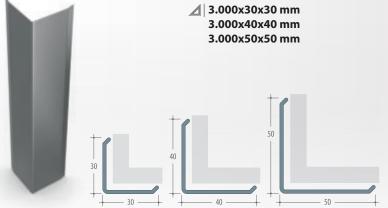
30A / 40A / 50A

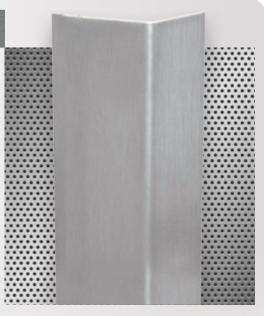
75C / 100C

30A / 40A / 50A | STAINLESS STEEL

Food industry approved stainless steel corner guards

- 1 mm thick, food-approved, brushed stainless steel (304 L)
- Can be screw fastened or fixed with construction adhesive
- Available in three sizes to suit most common project requirements







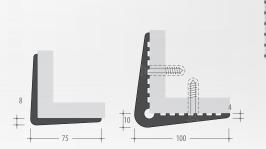
specification texts <u>www.c-sgroup.eu/?p=8505</u>

75C / 100C | EPDM RUBBER

Industrial grade EPDM rubber corner guards for indoor/ outdoor applications

- Industrial grade EPDM rubber corner guards, available in 75mm and 100mm sizes
- Can be screw fastened or fixed with neoprene adhesive





⊿ 3.000x75x75 mm 3.000x100x100 mm





specification texts <u>wwww.c-sgroup.eu/?p=411</u>

UNIQUE FACTORY SERVICES ONLY CS WILL OFFER.



FACTORY CUTTING

We can deliver our products cut to custom lengths **to spare you on-site cutting** and allow for faster installations.

- Tolerances +/- 2 mm



EXTRUSION TO CUSTOM LENGTHS

Our extrusion lines at your service. We can extrude our products to lengths of your choice in order to minimise cutting waste.

Minimum order of 150 meters per product – 4-5 weeks delivery Gross manufacturing tolerances (20 to 40 mm extra length).



PRE-ASSEMBLY

We do the assembly so you don't have to. We can deliver "ready to install" handrail assemblies to allow for speedy installations:

- Fast, clean and effortless installations
- No on-site cutting
- Fewer installation personnel needed

COUNT ON TRUE EXPERTS FOR YOUR PROJECTS.



A TRUE EXPERT ON YOUR SIDE

Our expertise at your service. All of our sales technicians have many years of practical experience and will accompany you on-site to advise on product choices and address all your technical questions.



YOUR PERSONAL SALES ENGINEER

One expert contact. A personally assigned sales technician with direct email and telephone contact will stand by your side to help you with product choices, technical questions and other nitty-gritty details of your project.

EXCLUSIVE FEATURES TO ASSIST WITH PRODUCT CHOICE.



SWATCHES AND SAMPLES

See the real thing before ordering. Your personal sales technician will gladly supply you with colour swatches and product samples to help you make the perfect choice.



SPECIFICATION TEXTS

Need help with specification? Detailed specification texts for all our products are available in paper format or via email from your personal sales technician or can be downloaded from our website.



COLOUR MATCHING SERVICE

What's the perfect match? Colour matching can be a science of its own. Our colourists happily share their professional experience to help you make the perfect choice.

| Anise



The industry standard for high quality curtain track systems



Plus is a set of highly flexible system modules which

can be assembled to a multitude of configurations

to suit your exact project requirements.

RAK® PLU

83

two standard colours (Window Grey 7040 and Signal

White 9003). To suit project requirements it can also be

ordered in any other RAL colour (subject to quantity).

Supertrak® Plus | 🗷 two bed layout in combination with a cheerful curtain pattern has been used for this intensive care twin room.





↑ | Supertrak® Plus cubicle tracks provide both privacy and unhindered access to the boxes of this emergency ward

Supertrak® Plus two bed | → layouts offer privacy to this examination area, still allowing freedom of movement of hospital equipment or unhindered cleaning.







A practical curtain track | ↑ with a 90° bend separates the examination area of a Doctor's office.



A basic curtain rail |
allows for instant
privacy to this
highly frequented
examination box.





The most extensive range of vivid colours for mood-lifting environments

Our range of bright and saturated colours has been updated with 12 new colours and has become the most extensive collection on the market. They are ideal for dynamic and mood-lifting environments and help with providing guidance throughout the building.



▶ LAGOON 5018 2018

TURQUOISE 6033

OLIVE 33

Need a different colour?

Subject to minimum quantities we

can produce your custom colours.

SMOOTH

A smooth finish

Acrovyn® wall protection

sheets with a smooth surface finish are avail-

DOVE GREY 24

▶ AQUA BLUE 11

for maximum

hygiene

PAPRIKA 30

ORANGE 2008

POMEGRANATE 31

▶ SPECTRUM RED 845

FAUX METAL

The looks of metal with the unique properties of CS Acrovyn®

Our Faux Metal collection has the stylish appeal of real metal but the warm touch and unique properties of Acrovyn® protecting from the rigours of day to day wear and tear.



NEUTRAL TONES, TEXTURED

Soothing, low contrast colours for peaceful environments

Inspired by nature itself, CS has created a unique choice of soft, low contrast colours for relaxing and peaceful environments where well-being and aesthetics are primary considerations.













▶ BRUSHED METAL 06



▶ CLOUD GREY 801



▶ PEARL GREY 136



MOLE 26



▶ FRENCH CREAM 101



NICKEL 80



FELT 7044 233



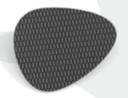
► CHARCOAL GREY 162



▶ MOCHA 105



RAFFIA 1019



▶ CARBON 07



IRON 7039 2001



GRAPHITE 7024



▶ **EARTH** 8019 **200**



CLAY 7006 2001

ACROVYN® FAUX WOOD

New contemporary wood finishes for comfortable living environments

Includes five brand new wood finishes such as Wengue and four contemporary oak styles.



▶ BIRCH 01



► MAPLE 02



▶ BEECH 03



WENGUE 39



▶ BLEACHED OAK 36



STEAMED OAK 37



SMOKED OAK 38



BURNED OAK 40

CROVYN® BACTERICIDE





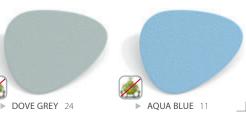
Acrovyn® Bactericide relentlessly kills bacteria settled on its surface helping to combat nosocomial infections. Ideal for wall and handrail applications in health environments.













WALL, CORNER AND DOOR PROTECTION

ARCHITECTURAL **SOLUTIONS** WORLDWIDE



Construction Specialties

















WALL, CORNER AND DOOR PROTECTION







Dexpale*





EXPANSION JOINT COVER SYSTEMS

ENTRANCE FLOORING SYSTEMS SUN CONTROL AND SHADING SYSTEMS

DISPLAY PANELS FOR LIGHTING PRODUCTS DEMOUNTABLE PARTITIONS

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This document voids and replaces all earlier versions. V40.



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