Manchester Art Gallery



Loading Bay Doors [Ref: 144501/VO/2025]
Discharge of Condition 4 (Material Samples)
May 2026

Version history

Project name: Manchester Art Gallery
Project number: 9604
Client: Manchester City Council | Manchester Art Gallery

Rev:	Date:	Status	Name	Description
P01	May 26	For discharge of conditions	Hannah Bellerby	Senior Architect	First Issue

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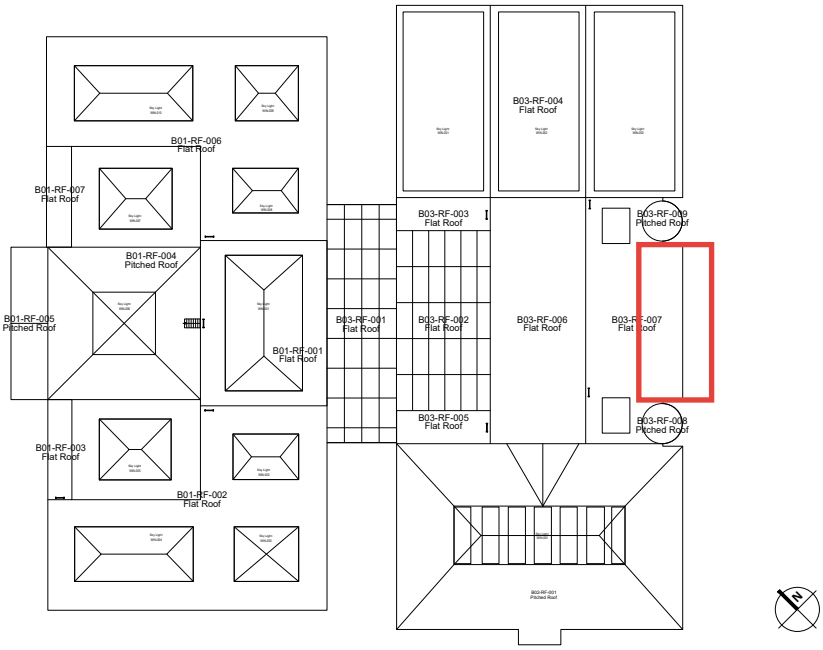
1.0 Schedule of Submitted Material Samples

2.0 Product Specifications

This report pertains to Condition 4 of Planning Permission 144501/VO/2025

Prior to the commencement of all development, but upon the discharging of condition 3 of this permission, details/samples of the materials to be used in the construction of all external surfaces of the development hereby approved shall have been submitted to and approved in writing by the Local Planning Authority. Any such scheme shall include material samples, as well as product specifications. The development shall then be carried out in accordance with the approved details/samples.

Location Plan



1.0 Schedule of Submitted Material Samples

No.	Item	Material and Finish	Photograph	Submitted to	Relevant dates	Comments / Feedback
1	Finish to internal and external door and panel surfaces, including recess flashings	0.7mm thick Zinc coated steel sheet, with HP Colour Coat Ultra finish in Ardenne (RAL 7022)		Michael Pearson [Planning Officer] & Paul Mason [Conservation Officer] Manchester City Council	Sample viewed during site meeting on 26/03/26	Sample accepted
2	Mock up sample of painted steel section and panel joint	**Painted mild steel SHS:** Primer - Rustoleum 3369 & 3380 Combi Primer Topcoat - Johnstones TR Steel and Cladding Semi-Gloss Topcoat, RAL 7022 **Black panel joint:** 0.7mm thick Zinc coated steel sheet, with HP Colour Coat Ultra finish in Black (RAL 9005)		Michael Pearson [Planning Officer] & Paul Mason [Conservation Officer] Manchester City Council	Sample viewed during site meeting on 26/03/26	Sample accepted

2.0 Product Specifications

2.1 Rhino NPSA Security Rated Sliding Folding Doors Datasheet

2.2 Colourcoat HPS200 Ultra

2.3 Silicone Sealant

2.4 Paint System (personnel door frames)

2.5 Paint System (loading bay door hinge covers)

2.6 Cylinder guard

2.7 Lever Handle

2.8 Door Sensor

Rhino DOORS

National Protective Security Authority

MADE IN BRITAIN

RHINO-SFC

NPSA SECURITY RATED SLIDING FOLDING DOORS

PRODUCT DATASHEET: **PD01**



Rhino-SFC
Sliding Folding Door



Rhino-SFC
Sliding Folding Bi-Parting



Rhino-SFC Folding Doors

Designed to resist deliberate forced entry, blast, vehicle ram and ballistic attacks.

Comprised of any number of high strength panels that can part at any section along the width of the doors, providing greater operational flexibility. The panels fold away into compact areas at the sides of the opening.

NPSA rated product: Approved for UK Government use, for details contact NPSA

Tested to

UK Government NPSA (was CPNI)
MFES security standard

Optional ratings

Blast resistance
Ballistic resistance to FB4/G2
Ram Resistance to BSi
PAS68 (amended)

Configurations

Sliding folding and bi-parting sliding folding

Maximum opening size

48000 x 11000mm (w x h)

Door Panels

100mm thick with steel skins
Composite attack resistant core
Vertical steel box section joints sealed with dovetailed EDPM seals
Solid steel hinges with grease nipple lubricated and phosphor bronze bushes

Guides and rails

Heavy duty top supported tracks at the head fitted with 'sealed for life' Nylatron bearings
Bottom track guide rail manufactured from heavy gauge mild or stainless steel

Operation

Available with manual, semiautomatic or fully automatic operation

Drop bolts

Manual or electrically operated

Optional extras

Wicket door for personnel access
Louvres
Glazing
Bi-parting option tailored to crane

Finishes

'Colorcoat' sheets from a range of standard colours
Galvanised steel
Finish painted in a choice of colours

Rhino DOORS

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Rhino ENGINEERING GROUP
Rhino Hysafe
Rhino SITE SYSTEMS

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2.2 Colourcoat HPS200 Ultra

Colour coat sheet finish that will be visible on the external and internal door & panel surfaces, and recess flashings

CI/SfB | | | (4-) | Nh2 |
June 2023

TATA STEEL

TATA

Colorcoat HPS200 Ultra®

Super durable, guaranteed performance



Unrivalled product performance

Exceptional performance

Designed to withstand even the most demanding and aggressive environments, Colorcoat HPS200 Ultra® pre-finished steel provides super durability and corrosion resistance. Whatever your type of building, from warehouses to retail outlets to processing plants, Colorcoat HPS200 Ultra® demonstrates proven performance and reliability.

Typical properties

Colorcoat HPS200 Ultra®			Test standard
Nominal organic coating thickness	(µm)*	200	EN 13523-1
Specular gloss (60°):			
Non-matt colours	%	20-40	EN 13523-2
Matt colours	%	<10	EN 13523-2
Scratch resistance	(g)	>5000	EN 13523-12
Abrasion resistance (Taber CS10 2x 1kg, 250 Rev)	(mg)	<12	EN 13523-16
Flexibility:			
Minimum bend radius	(T)	0T (16°C) 1T (0°C)	EN 13523-7 EN 13523-7
Reverse impact	(J)	≥18	EN 13523-5
Adhesion (cross hatch)	(%)	100	EN 13523-6
Maximum continuous operating temperature	(°C)	60	
Corrosion resistance:			
Salt spray	(h)	1000	EN 13523-8
Humidity	(h)	5000	EN 13523-25
Corrosion resistance category		RC5+	EN 10169:2022
UV resistance category		Ruv4	EN 10169:2022
Internal environment classification		CPI5	EN 10169:2022

*µm = micron

Notes

1. The figures contained in this table are typical properties and do not constitute a specification. Tested in accordance with EN 13523. For details on test methods visit **www.colorcoat-online.com**
2. For health and safety datasheets contact the Colorcoat Connection® helpline on +44 (0)1244 892434.

Super durability

Colorcoat HPS200 Ultra® has been developed to perform in demanding environments – both external and internal. It has been subjected to comprehensive natural and accelerated testing, often way beyond the required standards. Colorcoat HPS200 Ultra® is used in a wide range of industrial and commercial buildings and real-life scenarios provide further evidence of the product's super durable qualities.

Excellent test results mean that Colorcoat HPS200 Ultra® is classified as a CPI5 product as per EN 10169:2022. This is the highest classified level of corrosion protection for internal environments and means that Colorcoat HPS200 Ultra® is suitable for the most demanding internal applications such as swimming pools, sewage treatment plants, power stations, energy from waste and processing factories.

Today's super durable Colorcoat HPS200 Ultra® comes with comprehensive guarantees and offers a sustainable solution for the building envelope where longevity and durability are imperative.

Double sided option

To support the super durable qualities of Colorcoat HPS200 Ultra® it is provided with a high performance backing coat as standard however is also available double sided. This provides a robust barrier on the reverse side of the steel substrate for buildings with demanding internal and external environments such as manufacturing plants.

Unrivalled corrosion protection

Colorcoat HPS200 Ultra® uses the unique and proven Galvalloy® metallic coating by Tata Steel. Galvalloy® is made with a special mix of 95% Zinc (Zn) and 5% Aluminium (Al) that conforms to EN 10346:2015. The carefully developed proportions of Zinc and Aluminium in Galvalloy® offers a combination of increased barrier and sacrificial protection when compared with conventional Hot Dip Galv (HDG) coatings and provides unrivalled corrosion protection, even at the cut edges.



Colorcoat HPS200 Ultra® with Galvalloy® roof after 7 years.



Leathergrain alternative on hot dip galvanised steel substrate roof after 7 years.

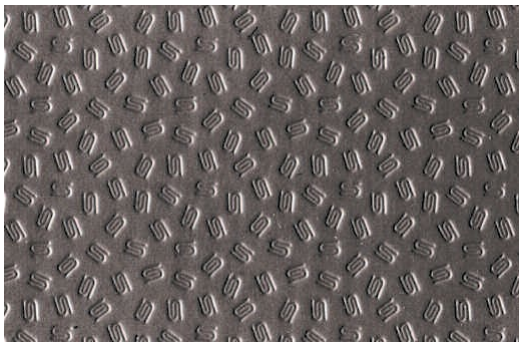
Colorcoat Connection® helpline +44 (0) 1244 892434

Enduring quality

Scintilla®

Unique to Colorcoat HPS200 Ultra® the Scintilla® emboss has been developed with a depth of only nominal 50 microns, which makes it less likely to trap dirt than deeper leathergrain embosses therefore making the pre-finished steel easier to clean whilst being more robust.

Unlike leathergrain patterns the emboss is subtle and does not detract from the overall appearance of the building, looking smooth and creating a modern building appearance from a distance. The Scintilla® emboss provides a unique guarantee of authenticy and an overall thicker protective top coat from Tata Steel.



Fire performance

External fire performance for roof covering products

Colorcoat HPS200 Ultra® when used as a roof covering can be classed as $B_{ROOF}(t1)$, $B_{ROOF}(t2)$, and $B_{ROOF}(t3)$ without further testing, in accordance with Commission Decision 2005/403/EC for all gauges ≥ 0.4mm and for all colours in the product range for single sided and 200/100 product.

Colorcoat HPS200 Ultra® has been tested to EN 1187 test method 4 and can be classified according to EN 13501-5 as $B_{ROOF}(t4)$ for all gauges ≥ 0.4mm and for all colours in the product range for all single and double sided products.

Reaction to fire performance

Colorcoat HPS200 Ultra® has been tested to EN 13823 and EN 11925-2 and can be classified in accordance with EN 13501-1 as C-s2, d0. This classification is valid for all gauges ≥ 0.46mm and for all colours for single sided product.

For double sided products contact Tata Steel.

Made in the UK

Colorcoat HPS200 Ultra® is exclusively from Tata Steel, and is fully traceable with certification to BES 6001 for Responsible Sourcing. From steel manufacture to processing, Colorcoat HPS200 Ultra® uses some of the most advanced, and sustainable, technologies in the UK for high quality building products with a lower carbon footprint.

Colorcoat® made in the UK

Specification

To secure the peace of mind that comes from a rigorously manufactured and world wide tested product from Tata Steel, please ensure Colorcoat® as well as the individual product name is specified: Colorcoat HPS200 Ultra® by Tata Steel with Galvalloy® metallic coating.

British Board of Agrément Certificate

The long-term performance of Colorcoat HPS200 Ultra® has been recognised within BBA certificate 91/2717 as "Colorcoat HPS200 Ultra® coating and metal treatment will protect the steel substrate against corrosion for a period in excess of 40 years in normal industrial, urban, suburban and rural environments."

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 91/2717

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Peace of mind

The Confidex® Guarantee

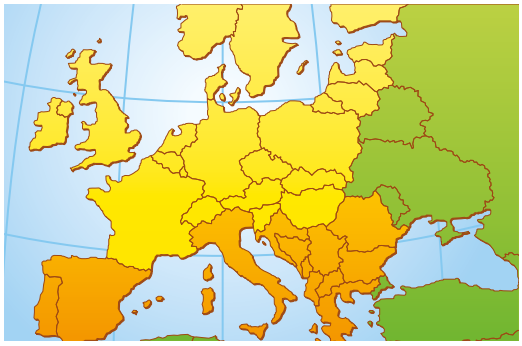
Confidex® is the product performance guarantee for Colorcoat HPS200 Ultra®, when used in an external conventional building envelope application namely roof and wall cladding using single skin, built-up or composite panel construction in industrial and commercial buildings.

Confidex® offers the most comprehensive guarantee for pre-finished steel available in Europe with Colorcoat HPS200 Ultra® being guaranteed for up to 40 years. Superior and unrivalled improvements in colour stability and gloss retention are translated into a durable product with great longevity.

The Confidex® Guarantee is project specific and upon registration provides a contractual relationship between Tata Steel and the building owner meaning that in the case of a claim the contact with Tata Steel is direct rather than having to go through the supply chain, saving time and money. What's more this is transferable should the building owner change by simply filling in the form on the back of the guarantee certificate.

Who registers?
Usually the cladding contractor or the cladding system manufacturer, but anyone in the supply chain can apply online at: www.colorcoat-online.com/registration.

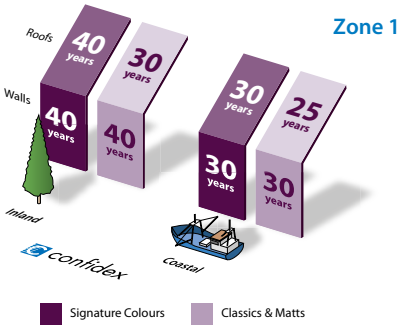
If you want to check if your building has been registered contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

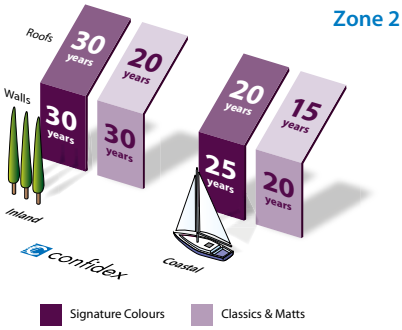


Northern Europe – Zone 1
Southern Europe – Zone 2
For areas outside of Confidex® zones please contact Tata Steel for more information.

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Confidex® zones





Notes

1. Figures under the Coastal heading are for buildings within 1km of any coast.
2. Full terms and conditions of the Confidex® Guarantee are on the online application form, available at www.colorcoat-online.com/registration
3. Confidex® must be registered within 3 months of the building completion date for the guarantee to be valid.
4. The Confidex® Guarantee periods on the diagram above are applicable to Zone 1 and Zone 2. For more information visit www.colorcoat online.com/confidexmap
5. Anthracite Matt is classified as a Signature colour duration and available with a Confidex® Guarantee of up to 40 years in Zone 1 and up to 30 years in Zone 2.

Other warranties

Whilst Confidex® has always been restricted to the weathering performance of the external cladding, we have recognised the growing emergence of demanding internal environment projects, such as energy from waste plants, and may offer a non-Confidex® warranty on a case by case basis for Colorcoat HPS200 Ultra® used internally.

Application specific warranties are also available for non-standard cladding applications; i.e flashings and sectional roller shutter doors.

Please contact the Colorcoat Connection® helpline for guarantees associated with such applications.

Sustainability

Sustainability

At Tata Steel we are committed to making the products society needs and to making them in the most responsible way. Our commitment to sustainability also means we actively manage our impacts and contribution throughout the full life of our products - with our suppliers, within our own operations, through the supply chains we serve and by taking responsibility for recycling steel. Our manufacturing site has an environmental management system which has been certified to ISO 14001, as well as ISO 50001 Energy Management.

Life Cycle Assessment

We constantly strive to ensure that the manufacturing processes and materials used to manufacture Colorcoat HPS200 Ultra® are the most sustainable available. Moreover, the enhanced robustness and durability of Colorcoat HPS200 Ultra® mean that it significantly outperforms other pre-finished steel in terms of environmental impacts over the full life cycle.

To demonstrate the environmental impacts, Tata Steel have published an Environmental Product Declaration (EPD) for each of the Colorcoat® assessed cladding systems, based on an initial Life Cycle Analysis. Please visit www.colorcoat-online.com/sustain for further details.

System environmental assessment

In the UK all roof and wall systems using pre-finished steel achieve a Green Guide A+ rating. Manufacture and processing of Colorcoat HPS200 Ultra® into building envelope products, through our approved supply chain, can meet the responsible sourcing criteria for BREEAM.

Recycling

Colorcoat HPS200 Ultra® is truly recyclable without any loss of quality, time after time. There is a well established and very efficient steel recycling infrastructure which ensures that all steel collected at end of life goes back into steel manufacture. Through this efficient recycling of steel, the environmental investment in steel-making is never wasted, making steel the most sustainable construction material.

Colorcoat Connection® helpline +44 (0) 1244 892434

Photovoltaic

To demonstrate Tata Steel's commitment to the environment and renewable energy offerings, Colorcoat HPS200 Ultra® now provides the comprehensive Confidex® Guarantee for the pre-finished steel that is under the photovoltaic (PV) frame modules on a roof or wall. This provides the building owner with the confidence that installing a PV array will not have a detrimental effect on the performance of the pre-finished steel, and that the product is guaranteed to perform for the same duration of up to 40 years.

If the building owner is considering retrofitting PV in the future, specifying Colorcoat HPS200 Ultra® ensures that your roof or wall is PV ready, future proofing your building, and providing peace of mind that installation will not have a detrimental and costly impact on the pre-finished steel. The Confidex® Guarantee allows PV modules to be installed at any point throughout the Confidex® Guarantee Period, providing it has been registered, and ensures that the full roof will still be covered for the remainder of the Confidex® Guarantee duration.



Colorcoat® services

The Colorcoat® brand is recognised as the exclusive mark of quality and metal envelope expertise and is supported by a comprehensive range of services, technical advice and guidance.

Colorcoat® business development team

The team are readily available to assist you with queries relating to the design, specification and construction of your metal building envelope. Call the Colorcoat Connection® helpline or visit www.colorcoat-online.com to find out who the representative is for your area.

Colorcoat Connection® helpline

This dedicated helpline offers immediate and easily accessible advice and guidance on a wide range of construction issues. Contact us on +44 (0)1244 892434.

Colorcoat® technical papers

We have produced a number of technical papers that can help you address key issues in building design and construction.

Colorcoat® supply chain partners

Colorcoat® products are available through our market leading supply chain partners, who have products that are UKCA/CE marked and systems that provide the highest quality and service.

Colorcoat® Accredited Distributors

Our Colorcoat® Accredited Distributors can provide you with any colour from the Colorcoat HPS200 Ultra® range in small quantities, with a 48 hour service guaranteed.

Environmental Product Declaration (EPD)

Tata Steel have published an Environmental Product Declaration (EPD) for Colorcoat HPS200 Ultra® that complies with EN 15804 and ISO 14025. Please visit www.colorcoat-online.com/epd for further details.

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Colour reference table

Colour	BS	RAL	SRI	SSST
Signature colours				
Alaska Grey	*	7000	24	73.3
Albatross	18B17	240 80 05	60	59.7
Anthracite	*	7016	1	81.9
Ardenne	*	7022	5	80.6
Black	00E53	9005	0	82.9
Goosewing Grey	10A05	7038	46	65
Hamlet	*	9002	69	56.5
Honesty	10C31	1015	75	54
Ice Blue	*	230 80 10	71	55.4
Marlstone	10B15	1013	77	53.3
Meadowland	12B17	100 80 20	57	60.7
Merlin Grey	18B25	180 40 05	10	78.8
Mole Brown	*	070 40 10	11	78.2
Moorland Green	12B21	100 60 20	34	69.6
Mushroom	10B19	080 70 10	44	65.7
Olive Green	12B27	100 30 20	5	80.5
Pure Grey	*	000 55 00	19	75.2
Straw	*	080 70 30	48	64.2
Svelte Grey	10B23	080 50 20	22	74
White	00E55	9003	94	47
Classics				
Barn Red	*	030 30 40	35	69
Burano	*	3004	34	69.6
Chili	04E56	3000	41	66.9
Heritage Green	*	6002	6	80
Ivy	*	170 20 10	23	73.8
Jade	*	150 50 20	20	75
Juniper Green	12B29	140 20 10	2	81.7
Ocean Blue	18C39	220 30 25	8	79.3
Petra	04D44	3013	47	64.6
Raven	*	7021	0	82.4
Sargasso	*	5003	28	71.9
Solent Blue	18E53	240 40 40	33	69.9
Terracotta	04C39	040 40 40	42	66.4
Van Dyke Brown	08B29	8014	5	80.6
Wedgewood Blue	18C37	220 50 15	24	73.6
Matts				
Alaska Grey Matt	*	7000	23	73.7
Anthracite Matt	*	7016	1	81.9
Green Grey Matt	*	150 40 10	7	79.8
Oxidised Matt	*	050 20 10	3	81.2
Terracotta Matt	04C39	040 40 40	46	65.2

RAL references
4 digit numbers are RAL Classic references.
7 digit numbers are RAL Design references.
British Standard or RAL reference numbers shown in the table, represent the nearest colours and are not exact matches to Colorcoat HPS200 Ultra®.
* These colours do not have equivalent BS references.
SRI – Solar Reflective Index as per ASTM E 1980.
SSST – Steady State Surface Temperature as per ASTM E 1980.

Colorcoat HPS200 Ultra®

Colorcoat HPS200 Ultra® pre-finished steel provides exceptional performance and corrosion resistance for building envelope applications. Guaranteed for up to 40 years it is backed up with even more extreme testing and real world global data to demonstrate the best combination of excellent colour stability, gloss retention and outstanding durability.

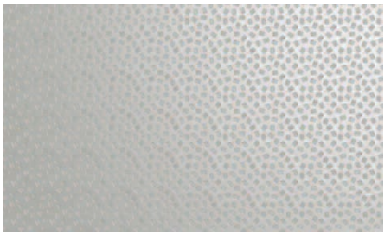
To make the colour selection process easier the colour palette is grouped as follows: Signature, Classic and Matt colours.

Product features and benefits

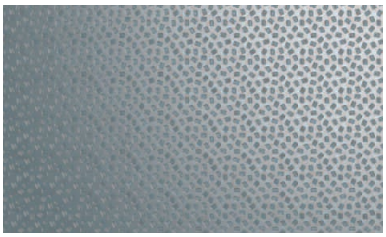
- Optimised Galvalloy® metallic coating for exceptional corrosion resistance and cut edge protection.
- Meets RUV4 and surpasses RC5+ as per EN 10169:2022 proving excellent colour and gloss retention and corrosion resistance.
- Scintilla® embossed as a mark of authenticity from Tata Steel.
- Made in the UK for a lower carbon footprint and certified to BES 6001 Responsible Sourcing standard.
- Confidex® Guarantee for up to 40 years for the weatherside of industrial and commercial buildings with no inspection or maintenance to maintain its validity except when used on a roof or wall that has a Photovoltaic (PV installation).
- Can be used under Photovoltaic (PV) frame modules with no reduction in guarantee length ensuring all parts of the roof or wall are covered for the same duration.
- Exceeds requirements of CPI5 as per EN 10169 demonstrating excellent barrier properties when used internally.
- Independently tested for liberation of volatile organic compounds (VOC) against EN ISO 16000-9 and achieved an A+ rating.
- Fully REACH compliant & free of chromates including hexavalent chrome.
- BBA certified for durability in excess of 40 years.
- Fully recyclable.

Signature

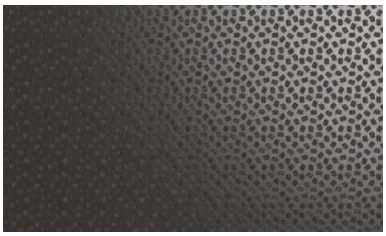
White (RAL 9003)



Goosewing Grey (RAL 7038)



Alaska Grey (RAL 7000)



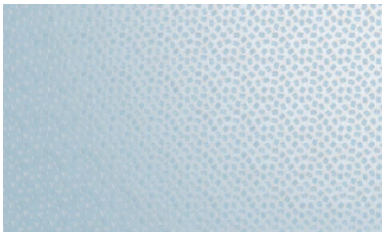
Anthracite (RAL 7016)



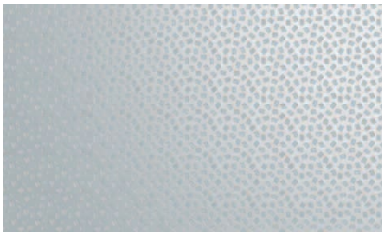
Black (RAL 9005)

Applied panel joints

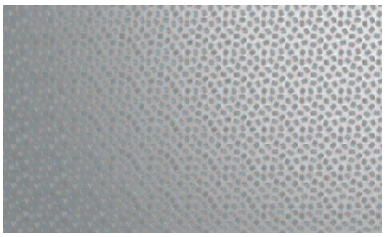
Signature



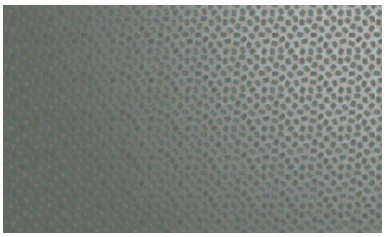
Ice Blue (RAL 230 80 10)



Albatross (RAL 240 80 05)

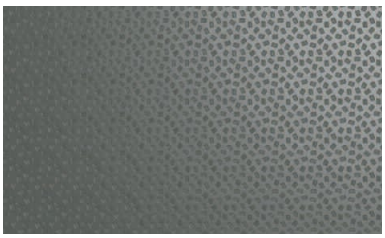


Pure Grey (RAL 000 55 00)



Merlin Grey (RAL 180 40 05)

Door and panel surfaces, recess flashings



Ardenne (RAL 7022)

Signature

Marlstone (RAL 1013)

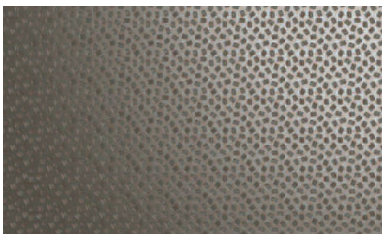
Honesty (RAL 1015)



Mushroom (RAL 080 70 10)

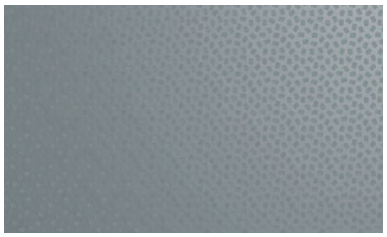


Straw (RAL 080 70 30)



Mole Brown (RAL 070 40 10)

Matts



Alaska Grey (RAL 7000)



Anthracite (RAL 7016)



Green Grey (RAL 150 40 10)



Oxidised (RAL 050 20 10)



Terracotta (RAL 040 40 40)

Colour reassurance

Colour availability

All the colours on the colour card are now available on short production lead times, and from our Colorcoat® Accredited Distributors in standard sizes. To check the quickest colour availability for your project contact the Colorcoat Connection® helpline on +44 (0) 1244 892434.

Repertoire®

As an additional service, whether you want your building to stand out, or blend with the surroundings, we can create a unique identity for your building. Through our Repertoire® Colour Consultancy service we can match almost any solid colour for walls or roofs of your building, with a minimum order quantity of 5000m2. Smaller order quantities may be possible dependant on size - please contact your Tata Steel representative for further information. We can work from either physical swatches or reference standards.

Metal hand samples



Metal hand samples are available for all colours. For a truer representation of colour and effect, please obtain metal hand samples from the Colorcoat Connection® helpline or online at www.colorcoat-online.com/samples

Colour consistency

If tonal consistency is critical, all cladding for a single elevation should come from the same production batch.

Matching components

If accessories made from other materials are to be colour-matched to the roof or wall cladding, the best reference is the actual profiles or panels delivered to site, or material from the same batch.

www.colorcoat-online.com

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Scan for the latest version of this literature.

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Registered in England No. 2280000

Language English UK 0623

2.3 Silirub LMN Sealant

Mastic sealant used to bond hinge covers to the door panels and seal the door to the subframe during installation

Colour - Bronze

SOUDAL

Technical datasheet

Silirub LMN

Product description

Silirub LMN is a high quality, neutral, elastic one-component joint sealant based on silicones.



Properties

- Very good adhesion on many materials
- Easy to apply
- Permanently elastic after curing
- Good UV resistance
- Moisture resistant
- Very good resistance to ageing
- Neutral curing
- MEKO free

Applications

- All usual building joints with high movement.
- Glazing and joint works.
- Expansion joints between many different construction materials.
- Sealing between uPVC, treated wooden and metal profiles and glass.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 7 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.00 g/ml (trans.) | ca. 1.22 g/ml (colours)
Maximum allowed joint movement		± 25 %
Elasticity modulus	ISO 37	ca. 0.39 N/mm²
Elastic recovery	ISO 7389	> 80 %
Elongation at break	ISO 37	> 700 %
Maximum tension	ISO 37	ca. 1.70 N/mm²
Hardness		24 ± 5 Shore A
Application temperature		+5°C → +35°C
Temperature resistance		-60°C → +150°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  The surface must be rigid, clean, dry, free of dust and grease.

Soudal UK
Soudal House, Unit 1, Centurion Way, Centurion Park, B77 5PN Tamworth
+44 1827 261 092
www.soudal.com sales.uk@soudal.com

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Silirub LMN

- Substrate preparation
  Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet).
- Substrate types
  Silirub LMN has a good adhesion to following substrates: all usual building substrates, etc.. Silirub LMN has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the product with a manual, pneumatic or accu caulking gun.
- Cleaning method
  Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Compatibility

- Compatibility with glass
  Silirub LMN is not suitable for contact with secondary sealant of insulating glass units. Silirub LMN is not suitable for direct contact with pvb-films for laminated glass.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 15 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Standards and certificates

- Conform to ISO 11600 F+G 25LM

Joint dimensions

- Min. width for joints: 5 mm
  Max. width for joints: 30 mm
  Min. depth for joints: 5 mm
  Recommendation for sealing jobs: joint width = 2 x joint depth

Environmental clausules

- Leed regulation: Silirub LMN conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Remarks

- Do not use on natural stones like marble, granite,...(staining).

Soudal UK
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+44 1827 261 092

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Silirub LMN

- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- A total absence of UV can cause a color change of the sealant.
- In an acid environment or in a dark room, a white sealant can slightly turn yellow. Under the influence of sunlight it will turn back to its initial colour.
- When finishing with a finishing- or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.
- We strongly recommend not to apply the Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Do not use on polycarbonate.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.

This technical data sheet replaces al previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. It is general in nature and does not constitute any liability. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.

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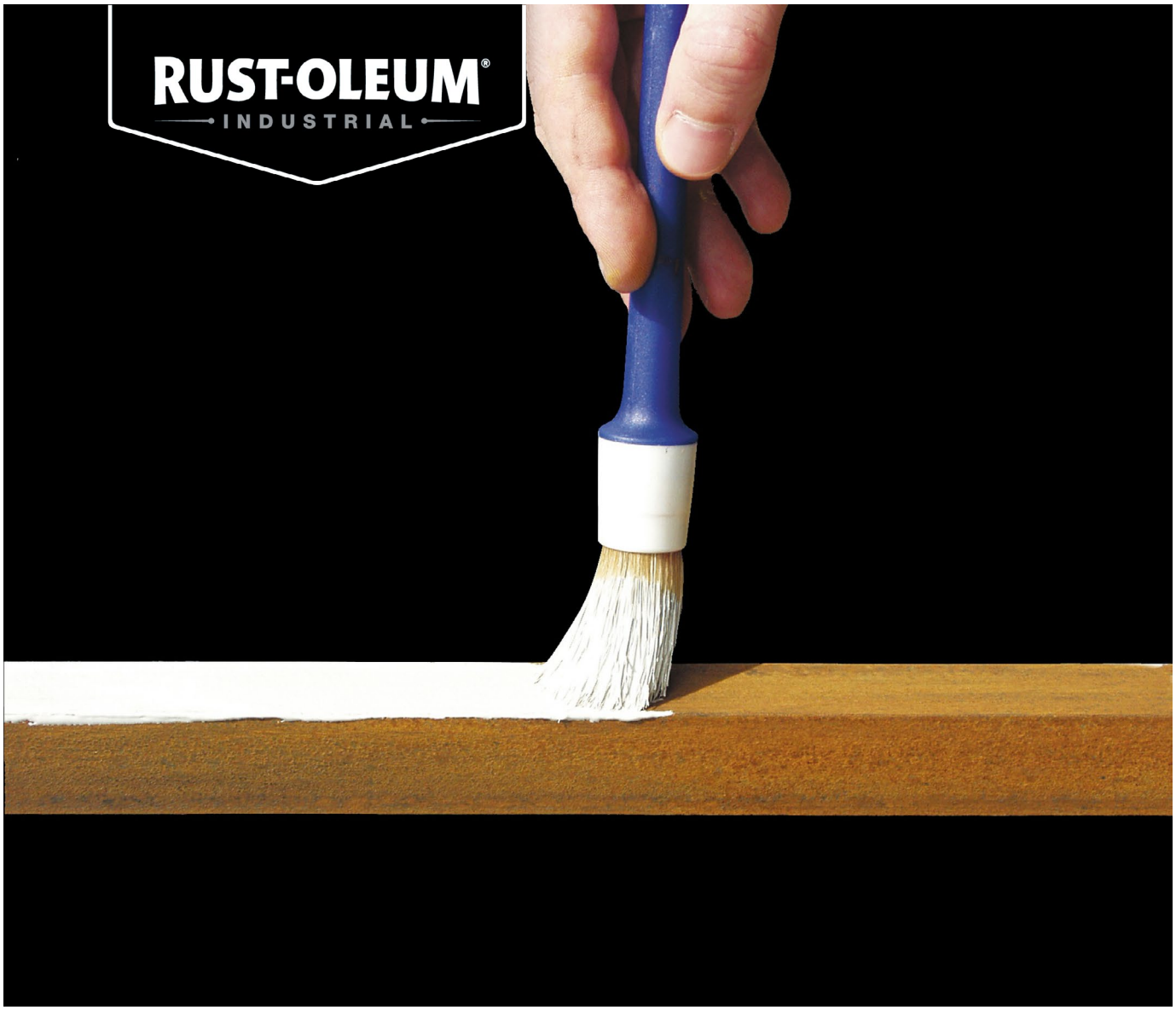
Note: Colour swatches provided as guide only, as accuracy of reproduction can not be guaranteed.

2.4 Paint System (personnel door frames)

For all exposed steel surfaces.

Primer: Rustoleum 3369 & 3380 Shop Primer

Topcoat: Johnstones TR Steel and Cladding Semi-Gloss Topcoat (RAL 7022)



COMBIPRIMER® ANTI-RUST PRIMER



High quality anti-rust primer for CombiColor®

- Recoatable after 2 hours
- For new / slightly rusted surfaces
- Grey for light coloured topcoats
- Red for dark coloured topcoats

KNOW-HOW TO PROTECT™

WWW.RUST-OLEUM.EU

COMBIPRIMER® ANTI-RUST PRIMER

DESCRIPTION
RUST-OLEUM® CombiPrimer Anti-Corrosion 3369 Red / 3380 Grey are fast drying primers based on an aromatic free short oil alkyd resin. The products contain rust-inhibitive pigmentsand are lead- and chromate free.

RECOMMENDED USE
RUST-OLEUM CombiPrimer should be used on new or prepared rusted steel surfaces to provide and enhance protection against corrosion. CombiPrimer Anti-Corrosion is primarily intended for brush application and can also be applied by roller and air spray. CombiPrimer Anti-Corrosion should be used in general industrial exposures, normal humidity and interior applications and should be recoated with CombiColor Original.

TECHNICAL DATA

Density (g/cm³):	1,21
Gloss Level:	Matt
Solids content in volume:	44,8%
Heat Resistance:	120°C (dry heat)

DRY TIMES BY 20º C/RH 50%

Touch dry:	1 hour (20°C), 2 hours (10°C), ½ hours (30°C)
Dry to handle:	2 hour (20°C), 4 hours (10°C), 1 hour (30°C)
Dry to recoat:	2 hours (20°C), 4 hours (10°C), 1 hour (30°C)
Fully cured:	7 days (20°C), 14 days (10°C), 5 days (30°C)

RECOMMENDED WET FILM THICKNESS
80 µm

RECOMMENDED DRY FILM THICKNESS
35 µm

THEORETICAL CONSUMPTION
12,8 m²/l at 35 µm dry

PRACTICAL CONSUMPTION
Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

SURFACE PREPARATION
Remove grease, oil and all other surface contaminations by alkaline or high pressure (steam) cleaning in combination with appropriate detergents. Remove rust scale, loose mill scale, loose rust and loose coatings by scraping and wire brushing to St 2/3 (ISO 8501-1 : 1988). Sand intact coatings to roughen the surface slightly. The surface must be clean and dry during application.

DIRECTIONS FOR USE
To ensure homogeneity, coating materials should be thoroughly stirred prior to use.

APPLICATION CONDITIONS
Temperature of air, substrate and coating material between 5 and 35°C and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

APPLICATION & THINNING: BRUSH
Up to 10% volume RUST-OLEUM Thinner 7301. Use natural bristles, longhair brushes.

APPLICATION & THINNING: ROLLER
Up to 10% volume RUST-OLEUM Thinner 7301. Use medium nap, 8-12 mm rollers. Roller application may require 2 coats to achieve recommended dry film thickness.

APPLICATION & THINNING: AIR-ATOMISED SPRAY
10-20% volume RUST-OLEUM Thinner 7301. Gravity cup and pressure cup. Tip size: 1.2 - 1.8 mm. Atomizing pressure: 2 - 4 bar.

CLEANING OF EQUIPMENT / SPILLS
Use RUST-OLEUM Thinner 7301 or white spirit.

REMARKS
Maximum dry film thickness per coat: 60 µm dry, equals 135 µm wet.

SAFETY DATA

VOC level:	424 g/l
VOC readymix:	490 g/l
VOC category:	A/i
VOC limit:	424 g/l
Remarks regarding safety:	Consult Safety Data Sheet and Safety Information printed on the can.

SHELF LIFE
Minimum of 5 years from date of production in unopened cans, if stored in dry, well ventilated areas, not in direct sunlight at temperatures between 5° and 35°C.

Date issued: 22/11/2023

Available colours & pack sizes: Please refer to the respective product page on www.rust-oleum.eu for an overview of actual available colours and pack sizes.

Disclaimer: The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied him/herself independently as to the suitability of our products for his/her own particular purpose. In no event shall Rust-Oleum Europe be liable for consequential or incidental damages. Products must be stored, handled, and applied under conditions complying with Rust-Oleum Europe recommendations detailed within the latest copy of the product data sheet. It is the users responsibility to ensure that they have the current copy. Latest copies of the product data sheet is available for free and downloadable from www.rust-oleum.eu or upon a request to our Customer Services department. Rust-Oleum Europe reserves the right to change the properties of its' products without prior notification.

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Steel & Cladding Semi-Gloss Topcoat

DESCRIPTION

Johnstones Steel & Cladding Topcoat is specially formulated to provide long lasting protection against corrosion on metal substrates. It is UV resistant and has good water resistance for all round weather protection. Ideally use over Johnstone's Quick Dry Zinc Phosphate Primer for lasting corrosion protection.

RECOMMENDED USES



Plastisol cladding, suitably prepared steel and other metallic surfaces.

SPECIAL PROPERTIES

UV resistance and good weather resistance for all round weather protection.

COLOUR RANGE

Available in a range of colours via our Tinting System.

FINISH

Semi-gloss.

VOLUME SOLID

50%.

COVERAGE



Johnstone's Semi-Gloss Topcoat will cover at the rate of approximately 10 square metres per litre depending on the nature and porosity of the surface being painted.

DRYING TIME



Recoatable after 16–24 hours under normal drying conditions.

TRANSPORTATION & STORAGE

To avoid the risk of spillage always store and transport in a secure upright position. STORE AWAY FROM HEAT AND FLAME.

THINNER

TC2 Thinner and Cleaner.

VOC CONTENT

HIGH VOC CONTENT 25–50%
VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.

EU limit value for this product (Cat A/i): 500g/l (2010).
This product contains max 500g/l VOC.

FILM THICKNESS

Wet: 100µm, dry: 50µm.

SIZE

5 Litre

PREPARATION

Steel: Prepare surface and prime accordingly. If overcoating an existing paint ensure the surface is clean and dry.

Cladding: Clean thoroughly with Johnstones Cleaner & Degreaser after removing all loose and flaking paint, salts etc. Wash down with clean water. All bare areas of steel/aluminium must be suitably prepared and spot primed with Quick Dry High Build Zinc Phosphate Primer or Steel and Cladding Coatings 2 Pack Primer. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead. For further advice and free Johnstone's Trade datasheets, call 01924 354354 or visit www.johnstonestrade.com

APPLICATION



Stir thoroughly before use. Apply by brush or roller. If more than one can of a colour is to be used in the same area, intermix before use.

CLEANING



Remove as much product as possible from application equipment before cleaning. Replace lid firmly. Clean equipment immediately after use with TC2 Thinner and Cleaner. Some local authorities have special facilities for the disposal of waste coatings. Do not empty product into drains or watercourses.

PRECAUTIONS

- WARNING
- Flammable liquid and vapour.
- Contains 2-butanone oxime. May produce an allergic reaction.
- Repeated exposure may cause skin dryness or cracking.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Dispose of contents/container to a waste disposal site in accordance with local/national regulations.
- Do not get in eyes, on skin, or on clothing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of water. Do not use solvent thinners or White Spirit.
- IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- Ensure maximum ventilation during application and drying.
- Not recomended for interior use on large surface areas, or in confined spaces.
- Store in a well-ventilated place. Keep cool.
- Keep container tightly closed.
- Safety data sheet available on request.

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TECHNISPRAY PAINTS LTD.

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Tel: ++44 (0) 121 326 8020 Fax: ++44 (0) 121 327 1507
Email: enquiries@kolorbond.co.uk **www: kolorbond.co.uk**

TECHNICAL DATA SHEET

KOLORBOND® K2

PRODUCT DESCRIPTION

Kolorbond® K2 is a two pack PU coating which can be applied directly onto a variety of substrates including metals, GRP and hard plastics.

It can be applied with all types of spraying equipment and, in its brushable format, can be brush or roller applied.

PRODUCT GROUP

Kolorbond K2 is available in 4 gloss levels, 10%, 30%, 50% and 70%
K2 Hardener, K2 Thinners, K2 Accelerator, K2 Retarder, K2 G-pro

MIXING RATIO (by Volume)

Kolorbond K2	5 parts	**K2 Hardener**	1 part
By weight	7 parts		1 part

APPLICATION

POT LIFE **2 -** 3 hours @ 20°C

SPRAY VISCOSITY 20-25 seconds @ 20°C DIN 4

SPRAY PRESSURE HVLP 25-30psi (2 bar) NOZZLE 1.8mm

TOTAL FILM BUILD 80 micron dry (max)

FLASH OFF between coats 15 minutes

DRYING @ 20°C dust free 1 hour, hard 16 hours @ 50°C hard 1hour
Drying can be accelerated by adding **K2 Accelerator** (2%)

COVERAGE 14m^2 per litre (30 micron dry film thickness)

SUBSTRATE PREPARATION

Cast iron and steel – abrade with 120 free cut
GRP – abrade with 320 free cut
Aluminium and light alloys – abrade with 320 free cut
Galvanised & Phosphated steel – abrade with Scotchbrite
PVCu & hard plastics– abrade with Scotchbrite
Glass – Thoroughly clean with Windowprep, add 75ml of G-pro to mixed paint

All substrates must be thoroughly cleaned and degreased
PVCu must also be thoroughly cleaned with Windowprep

TECHNICAL

SPECIFIC GRAVITY @ 20 °C	Kolorbond K2	1.3 g/cm^3
	K2 Hardener	1.0 g/cm^3

FLASH POINT 23°C (method ISO3679)

VOC 520-550 g/l (dependant on colour)

SOLID CONTENT 60-65% by weight (dependant on colour)

CLEANING OF EQUIPMENT

Clean spray equipment regularly with any proprietary gun cleaning solvent. Spray guns and pots must be cleaned as required between colours using any proprietary cleaning apparatus.

STORAGE CONDITIONS

Containers must not be exposed to direct sunlight or temperatures above 50° C.
Store away from oxidizing agents. Avoid exposure to sources of heat or ignition.
Static electricity may result in build-up that may cause a flash fire or an explosion.
Keep containers tightly closed.

FIRST AID PRECAUTIONS

For inhalation, move the exposed person to fresh air at once. Get medical attention immediately.

For breathing difficulties, oxygen may be necessary. If rapid recovery does not follow, apply artificial respiration as necessary.

For ingestion, do not induce vomiting. Obtain medical attention immediately.

For skin contact, wash the skin immediately with soap and water. Use a moisturiser. Get medical attention if any discomfort continues.

For eye contact, flush with plenty of water for several minutes. Continue to rinse for at least 15 minutes. If irritation persists, refer for medical attention.

CYLINDER GUARDS

Surelock McGill have developed and manufacture a range of high performance cylinder guards designed to provide protection of the cylinder against various levels of physical attack.

The cylinder guards have been tested to the latest LPS 1175 standards, meeting security levels from SR2 – SR6. These guards are manufactured to suit doors between 40mm (1.574 in) and 100mm (3.937 in) thick.

The design enables the guard to accept either a Euro-profile, Scandinavian oval, or round rim cylinder, it will accommodate the majority of commercially available cylinders.



GSS7

FEATURES

- Provides security to external cylinders to LPS 1175 security ratings 1, 2, 3, 4, 5 and 6 when fitted on certified doorsets
- Fits wide range of Rim, Scandinavian Oval and Europrofile Cylinders
- Suitable for use with surface mounted and mortice fitted locks
- Modular design for ease of installation
- Corrosion resistance to EN 1670 grade 5 including 480 hours salt spray testing
- Supplied with 5 packers (9mm)(0.354") to suit most cylinders
- EN1906 Compliant
- Tested to EN1627 to RC4 on GSS4 cylinder guard, to RC5 on the GSS6 cylinder guard and to RC6 on the GSS7 cylinder guard
- 6no. M8 fixings offering maximum protection

FIXING LENGTH	STANDARD CYLINDER FIXING METHOD	OPTION W15 (5mm (0.196") load plate cylinder guard fixing)	OPTION W14 (BOLT THROUGH CYLINDER GUARD FIXING)
		DOOR THICKNESS	
40mm (1.574")	40mm (1.574") to 50mm (1.968")	35mm (1.377") to 45mm (1.771")	
50mm (1.968")	50mm (1.968") to 60mm (2.362")	45mm (1.771") to 55mm (2.165")	
60mm (2.362")	60mm (2.362") to 70mm (2.755")	55mm (2.165") to 65mm (2.559")	
70mm (2.755")	70mm (2.755") to 80mm (3.149")	65mm (2.559") to 75mm (2.952")	40mm (1.574") to 50mm (1.968")
80mm (3.149")	80mm (3.149") to 90mm (3.543")	75mm (2.952") to 85mm (3.346")	50mm (1.968") to 60mm (2.362")
90mm (3.543")	90mm (3.543") to 100mm (3.937")	85mm (3.346") to 95mm (3.740")	60mm (2.362") to 70mm (2.755")
Screw length for option W14 subject to change when any packing options are introduced			



GSS6



GSS5



GSS4



GSS2/GSS3

Secured by Design
Police Preferred Specification

+44 (0) 118 977 2525 - sales@surelock.co.uk - www.surelockmcgill.com - Surelock McGill Ltd, 26 The Business Centre, Molly Millars Lane, Wokingham, Berkshire RG41 2QY

CYLINDERS ASSESSED TO LPS 1175

Manufacturer	Model	Profile	GM LB03 / LD05 / LSR3	GM LD10 / LSR4	GS LB03 / LD05 / LSR3	GS LD10 / LSR4	GS LE10 / LSR5	GS LG05	Packers (dim X) (mm)	LPS1175 Plus
Abloy	Disclock Pro CY403-DP	Rim			√				13	+
Abloy	Disclock Pro CY405-DP	Rim			√				12	+
Abloy	Disklock Pro CY201-DP	Scandinavian Oval			√				7	+
Abloy	Disklock Pro CY303-DP, CY304-DP, CY305-DP, CY307-DP, CY308-DP, CY309-DP, CY317-DP, CY318-DP, CY319-DP, CY321-DP, CY322-DP, CY323-DP, CY326-DP, CY327-DP, CY328-DP, CY331-DP, CY332-DP, CY333-DP, CY336-DP, CY337-DP, CY338-DP	Europrofile	√		√				0	+
Abloy	Novel CY403-VL	Rim			√				13	+
Abloy	Novel CY405-VL	Rim			√				12	+
Abloy	Novel CY201-VL	Scandinavian Oval			√				7	+
Abloy	Novel CY321-VL, CY322-VL, CY323-VL, CY326-VL, CY327-VL, CY328-VL, CY331-VL, CY332-VL, CY333-VL, CY336-VL, CY337-VL, CY338-VL	Europrofile	√		√				0	+
Abloy	Protec CY403-PT	Rim			√	√	√		13	+
Abloy	Protec2 CY403-TT	Rim			√	√	√		13	+
Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim			√	√	√		13	+
Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim			√	√	√		13	+
Abloy	Protec CY405-PT	Rim			√	√	√		12	+
Abloy	Protec2 CY405-TT	Rim			√	√	√		12	+
Abloy	Protec CY201-PT	Scandinavian Oval			√	√	√		7	+
Abloy	Protec2 CY201-TT	Scandinavian Oval			√	√	√		7	+
Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval			√	√	√		7	+
Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval			√	√	√		7	+
Abloy	Protec CY303-PT, CY304-PT, CY305-PT, CY307-PT, CY308-PT, CY309-PT, CY317-PT, CY318-PT, CY319-PT, CY321-PT, CY322-PT, CY323-PT, CY326-PT, CY327-PT, CY328-PT, CY331-PT, CY332-PT, CY333-PT, CY336-PT, CY337-PT, CY338-PT	Europrofile	√	√	√	√	√		0	+
Abloy	Protec Cliq / Cliq Remote CY303-PT-CLIQ, CY304-PT-CLIQ, CY305-PT-CLIQ, CY331-PT-CLIQ, CY332-PT-CLIQ, CY333-PT-CLIQ	Europrofile	√	√	√	√	√		0	+
Abloy	Protec2 CY321-TT, CY322-TT, -CY323-TT, CY326-TT, CY327-TT, CY328-TT, CY331-TT, CY332-TT, CY333-TT CY336-TT, CY337-TT, CY338-TT	Europrofile	√	√	√	√	√		0	+
Abloy	Protec2 Cliq / Cliq Remote CY331-TT- CLIQ, CY332-TT- CLIQ, CY333-TT-CLIQ	Europrofile	√	√	√	√	√		0	+
ABUS	Vitess 1000	Rim			√	√			2	
ABUS	Vitess 1000	Scandinavian Oval			√	√			7	
ABUS	Vitess 1000	Europrofile	√	√	√	√			0	
ABUS	Bravus 2000	Rim			√	√	√		2	
ABUS	Bravus 2000	Scandinavian Oval			√	√	√		7	
ABUS	Bravus 2000	Europrofile	√	√	√	√	√		0	
Access2	Tigris Omega	Rim			√	√	√		5	+
Access2	Tigris Omega	Scandinavian Oval			√	√	√		7	+
Access2	Tigris Omega	Europrofile	√	√	√	√	√		0	+
Access2	Tigris Plus	Rim			√	√			5	
Access2	Tigris Plus	Scandinavian Oval			√	√			7	
Access2	Tigris Plus	Europrofile	√	√	√	√			0	
Access2	Tigris Premier, Premier 2, Premier 3	Rim			√	√	√		5	+
Access2	Tigris Premier, Premier 2, Premier 3	Scandinavian Oval			√	√	√		7	+
Access2	Tigris Premier, Premier 2, Premier 3	Europrofile	√	√	√	√	√		0	+
Acsys	BL, SL, DL	Europrofile	√	√	√	√	√		0	+
ASSA	4457	Rim			√	√	√		4	+
ASSA	4401, 4407	Scandinavian Oval			√	√	√		7	+
ASSA	4401, 4407 Cliq / Cliq Remote	Scandinavian Oval			√	√	√		7	+
ASSA	4422, 4423, 4427	Europrofile	√	√	√	√	√		0	+
ASSA	44M22, 44M23, 44M27 Cliq / Cliq Remote	Europrofile	√	√	√	√	√		0	+
ASSA	4857	Rim			√	√	√		4	
ASSA	4801, 4807	Scandinavian Oval			√	√	√		7	

Manufacturer	Model	Profile	GM LB03 / LD05 / LSR3	GM LD10 / LSR4	GS LB03 / LD05 / LSR3	GS LD10 / LSR4	GS LE10 / LSR5	GS LG05	Packers (dim X) (mm)	LPS1175 Plus
ASSA	4822, 4823, 4827	Europrofile	√	√	√	√	√		0	
ASSA	C5857	Rim			√	√	√		4	+
ASSA	C5801, C5807	Scandinavian Oval			√	√	√		7	+
ASSA	C5822, C5823, C5827	Europrofile	√	√	√	√	√		0	+
ASSA	7657	Rim			√	√			4	
ASSA	7601, 7607	Scandinavian Oval			√	√			7	
ASSA	7622, 7623, 7627	Europrofile	√	√	√	√			0	
iLOQ	C10S.1	Scandinavian Oval			√	√		√	15	+
Kaba	experT	Scandinavian Oval			√	√	√	√	6	+
Kaba	experT	Europrofile	√	√	√	√	√	√	0	+
Kaba	Gege pExtra	Scandinavian Oval			√	√	√		7	+
Kaba	Gege pExtra	Europrofile	√	√	√	√	√		0	+
Kaba	Gege RAM	Scandinavian Oval			√	√	√		7	+
Kaba	Gege RAM	Europrofile	√	√	√	√	√		0	+
Kaba	K20	Rim			√	√	√		0	
Kaba	K20	Scandinavian Oval			√	√	√		6	
Kaba	Quattro PluS	Rim			√	√	√		0	+
Kaba	Quattro PluS	Scandinavian Oval			√	√	√		6	+
Kaba	Quattro PluS	Europrofile	√	√	√	√	√		0	+
KESO	4000S	Rim			√	√	√		2	+
KESO	4000S	Scandinavian Oval			√	√	√		7	+
KESO	4000S	Europrofile	√	√	√	√	√		0	+
Locken/ISEO	LSSA20A329M	Scandinavian Oval			√	√	√		7	+
Locken/ISEO	LMSA030309M, LMSA830309M, LMSA030109M	Europrofile	√	√	√	√	√		0	+
Medeco	M3-ARX	Rim			√	√	√	√	4	+
Medeco	M3-ARX	Scandinavian Oval			√	√	√	√	7	+
Medeco	M3-ARX	Europrofile	√	√	√	√	√	√	0	+
Mul-T-Lock	Classic Pro	Rim			√	√			4	
Mul-T-Lock	Classic Pro	Scandinavian Oval			√	√			7	
Mul-T-Lock	Classic Pro	Europrofile	√	√	√	√			0	
Mul-T-Lock	Interactive+	Rim			√	√			4	
Mul-T-Lock	Interactive+	Scandinavian Oval			√	√			7	
Mul-T-Lock	Interactive+	Europrofile	√	√	√	√			0	
Mul-T-Lock	Intergrator	Rim			√	√			4	
Mul-T-Lock	Intergrator	Scandinavian Oval			√	√			7	
Mul-T-Lock	Intergrator	Europrofile	√	√	√	√			0	
Mul-T-Lock	MT5	Rim			√	√			4	
Mul-T-Lock	MT5	Scandinavian Oval			√	√			7	
Mul-T-Lock	MT5	Europrofile	√	√	√	√			0	
Mul-T-Lock	MT5+	Rim			√	√			4	
Mul-T-Lock	MT5+	Scandinavian Oval			√	√			7	
Mul-T-Lock	MT5+	Europrofile	√	√	√	√			0	
Schlage	MC201	Rim			√	√	√			
Schlage	EC901, EC902, EC903	Europrofile	√	√	√	√	√		0	
Surelock McGill	CY-RM	Rim			√	√	√		5	+
Surelock McGill	CY-SN	Scandinavian Oval			√	√	√		7	+
Surelock McGill	CY-ED, CY-ET, CY-ES	Europrofile	√	√	√	√	√		0	+
Videx	Cyberlock CL-OVLD	Scandinavian Oval			√	√	√		7	+
Winkhaus	VS6	Rim			√	√			2	
Winkhaus	VS6	Scandinavian Oval			√	√			7	
Winkhaus	VS6	Europrofile	√	√	√	√			0	
Yale	X5	Rim			√	√			4	
ASSA	4857	Rim			√	√	√		4	
ASSA	4801, 4807	Scandinavian Oval			√	√	√		7	
ASSA	4822, 4823, 4827	Europrofile	√	√	√	√	√		0	
ASSA	C5857	Rim			√	√	√		4	+
ASSA	C5801, C5807	Scandinavian Oval			√	√	√		7	+
ASSA	C5822, C5823, C5827	Europrofile	√	√	√	√	√		0	+
ASSA	7657	Rim			√	√			4	
ASSA	7601, 7607	Scandinavian Oval			√	√			7	
ASSA	7622, 7623, 7627	Europrofile	√	√	√	√			0	
iLOQ	C10S.1	Scandinavian Oval			√	√		√	15	+
Kaba	experT	Scandinavian Oval			√	√	√	√	6	+

Note: Union 1x1 is not suitable for LPS 1175

Planning Permission | 144501/VO/2025 | Discharge of Condition

CYLINDERS NOT ASSESSED TO LPS 1175

Manufacturer	Model	Profile	GM LB03 / LC05 / LSR3	GM LD10 / LSR4	GS LB03 / LC05 / LSR3	GS LD10 / LSR4	GS LE10 / LSR5	Packers (dim X) (mm)
Ilco	7016	Rim			√			6
ASSA	P657	Rim			√	√	√	4
ASSA	P601, P607	Scandinavian Oval			√	√	√	7
ASSA	P622, P623, P627	Europrofile	√	√	√	√	√	0
ESLA	NG	Scandinavian Oval			√	√	√	8
ESLA	NG	Europrofile	√	√	√	√	√	0
Union	1x1	Rim			√	√	√	5
Union	KeyPrime	Rim			√	√	√	5

ORDER CODES

Product Range First 3 digits	Security Rating 4th digit	Cylinder Profile 5th digit	Fixings 6th digit	Fixing Plate 7th digit
GSS = Steel cylinder guard for surface mounted locks **GMS** = Steel cylinder guard for morticed locks	**1** = LPS 1175 SR1 **2** = LPS 1175 SR2 **3** = LPS 1175 SR3 **4** = LPS 1175 SR4 **5** = LPS 1175 SR5 **6** = ULTIMATE **7** = LPS 1175 G5	**E** = for Europrofile Cylinders **S** = for Scandinavian Oval Cylinders **R** = for Rim Cylinders **A** = for Abloy Rim Cylinders	**0** = No fixings supplied **4** = Supplied with 40mm(1.575") fixings **5** = Supplied with 50mm(1.968") fixings **6** = Supplied with 60mm(2.362") fixings **7** = Supplied with 70mm(2.756") fixings **8** = Supplied with 80mm(3.150") fixings **9** = Supplied with 90mm(3.543") fixings *Order fixings over 90mm(3.543") separately*	**0** = Supplied without a fixing plate **1** = Supplied with a fixing plate

Standard package order codes (when ordered with a locking system)

CODE	ENHANCEMENT
GSS2R51	SR2 Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS2S51	SR2 Scandinavian oval cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS2E51	SR2 Euro-profile cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS3R5	SR3 Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS3S51	SR3 Scandinavian oval cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS3E51	SR3 Euro-profile cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS4R51	SR4 Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS4S51	SR4 Scandinavian oval cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS4E51	SR4 Euro-profile cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS5R51	SR5 Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS5S51	SR5 Scandinavian oval cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS5E51	SR5 Euro-profile cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS6R51	ULTIMATE Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS6S51	ULTIMATE Scandinavian oval to suit 50-60mm(1.968-2.362") thick door
GSS6E51	ULTIMATE Euro-profile cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS7R51	G5 Rim latch cylinder - to suit 50-60mm(1.968-2.362") thick door
GSS7S51	G5 Scandinavian oval to suit 50-60mm(1.968-2.362") thick door
GSS7E51	G5 Euro-profile cylinder to suit 50-60mm(1.968-2.362") thick door

Planning Permission I 144501/VO/2025 I Discharge of Condition

LEVER HANDLES

Designed for comfortable and ergonomic operation, the Surelock McGill lever handles offer a robust drive for 8mm lock spindles.

Manufactured from grade 316 stainless steel and tested to over 1 million cycles, the rugged construction provides excellent durability even in high-traffic and external areas.



ERGONOMIC CRANKED LEVER HANDLE

FEATURES

- Brushed stainless steel finish provides a modern appearance
- Internal and External handle options
- Provides a non-handed and bi-directional means of escape
- Cycle tested to over 1,000,000 cycles



STRAIGHT LEVER HANDLE

BENEFITS

- Can be used in conjunction with a range of Surelock McGill locking systems such as the multi-point Slimline lock or the single point Stirling lock to provide a fully functional and BS EN 179 compliant means of escape
- Ergonomic design
- Compatible with a range of locking and bolting systems

OPTIONAL FINISHES

- Green
- Brass
- Copper
- Bronze

PRODUCT PERFORMANCE CHART

☐ Indicates product has been certified, or tested & approved as part of a complete doorset assembly.
Product certification is subject to the chosen lock configuration, for full details please contact the sales office.

SECURITY																								
LPS 1175									LPS 1673 (A.R.)					FEBR (min)	EN 1627	STS 202	PAS 24	LPS 2081	SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7	SR8																
Issue 8	A	B	C	D	E	F	G	H	TIME	A	B	C	D											
20 MIN									300 SEC					60	RC6	BR6	PAS 24	SRB	EN 1125	EN1522 FB1-7	ISO 16933 EXV 15/25	UL 10C	GR5	1 MIL
15 MIN									240 SEC						RC5	BR5								
10 MIN									180 SEC					15	RC4	BR4			EN 179	UL752 Level 1-10		EN 1634-1	GR4	500K
5 MIN									120 SEC						RC3	BR3		SRA			ASTM F2927 Cat 1	CERTIFIRE	GR3	
3 MIN									60 SEC					5	RC2	BR2			UL 305	NIJ 0108.01 Level 1-4		BS 476-22	GR2	200K
1 MIN									30 SEC						RC1	BR1							GR1	

Product data sheet
GC 338



Sensor strip with standby mode for the protection of automatic swing and revolving doors

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GC 338

AREAS OF APPLICATION

- → Protection of automatic swing and revolving doors
- → Interior and exterior doors
- → Complicated flooring, such as reflective floors, entrance mats, metal rails
- → Narrow door profiles
- → Door widths 600 to 1500 mm
- → Minimum possible length of the sensor strip with 1 transmitter/receiver module each: 51 cm
- → Minimum possible length of the sensor strip with 2 transmitter/receiver modules each: 83 cm

PRODUCT FEATURES

- → Energy and space-saving sensor strip
- → Standby mode provides up to 50 % energy savings and increases the life span of the LED diodes
- → Closely monitored detection area secures leaf widths up to 1500 mm
- → Integrated object and wall blanking near maximum door opening
- → Automatized teaching of the system with the push of a button
- → All settings can be conveniently made by DIP switch
- → Click installation in the sensor cut-out profile reduces installation work

TECHNICAL DATA

Productname	GC 338
Technology	Active infrared beams
Switching voltage	30 V
Switching capacity max.	100 mA
Operating current	30 mA
IP rating	IP54
Connector cable length	5000 mm
Installation height (min.)	1500 mm
Installation height (max.)	3500 mm
Reaction time	< 52 ms and < 200 ms in boost mode
Service temperature	-30 - 60 °C
Humidity	< 90% relative, non-condensing
Standard conformity	EN 16005, DIN 18650

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GC 338

VARIANTS / ORDER INFO

Designation	Description	Ident-No.	Colour	Dimensions	Output
GC 338 Pair of sensor strips 1200 mm *	consisting of two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142825	according to RAL	1200 x 42 mm	Electrical relay
GC 338 Pair of sensor strips 1500 mm *	consisting of two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142827	according to RAL	1500 x 42 mm	Potential-free relay contact
GC 338 Pair of sensor strips 1500 mm *	consisting of two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142757	EV1	42 mm	Electrical relay
GC 338 Pair of sensor strips 1200 mm *	consisting of two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142219	EV1	1200 x 42 mm	Electrical relay

ACCESSORIES

WEATHER HOOD *

Accessory for the sensor strip



Designation	Ident-No.	Colour	Material
GC 335 / GC 338, weather hood L=1500 mm *	142232	transparent	Plastic
GC 335 / GC 338, weather hood L=1200 mm	142227	transparent	Plastic

CABLE SET GC 338 *

Accessory for the sensor strip



Designation	Description	Ident-No.	Colour	Dimensions	Type of installation
GC 338 Cable set *	Consisting of flat ribbon connection cable 2 m with 5 connectors and connection cable hinge side/opposite hinge side	149237			Integrated

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* The products designated above may vary in form, type, characteristics, function, or availability depending on the country. Please get in touch with your GEZE contact person if you have any questions.

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Buttress

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