# **Roofing and Cladding (IRC Carocelle)**

Contents

IRC Carocelle Bradley Smith bradley.smith@irc-carocelle.co.uk Unit 21 Maybrook Industrial Estate Walsall Wood West Midlands WS8 7DG 01543 379 800



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Scope of Works



# Scope of Works P21-024, Calder Park, Wakefield

## Main Warehouse

## **Roof Cladding**

Main Warehouse Roof to be clad in a CA Twin-Therm Quantum (212mm O/All) Built-Up System consisting of the following:

- 0.7mm thick 32/1000R Profile Top Sheet, Goose Wing Grey (RAL 7038) Colour, HPS200 Ultra Finish
- 180mm thick Therma-Quilt Insulation (212mm Overall Thickness)
- 0.7mm thick 17/1000L Profile Liner Sheet, Bright White Colour
- Panels to achieve a U Value of 0.23 W/m<sup>2</sup>K

All Fasteners, Mastics & Fillers are supplied via CA Building Products, as part of the CA Twin-Therm Quantum System.

Roof Construction proposed by IRC Carocelle Ltd for this project is strictly in accordance with CA Installation Guides and will provide a complete 25-Year Warranty & 40 Years Confidex.

# Rooflights

Approximately 10% of the Warehouse Roof Area to be in GRP Triple Skin Roof lights to suit 212mm thick CA Twin-Therm System, compromising of the following:

- CA Therma-Light 32/1000R CE18E 8oz Class 3 GRP Translucent Rooflight Top Sheets
- TCB-10MX Intermediate Core Layer
- CA Therma-Light 32/1000RL CE24 8oz Class 1 GRP Translucent Rooflight Liner Sheets
- System to achieve a U-Value of 1.30W/m<sup>2</sup>K
- Light Transmission Value of 0.58
- Solar Transmission "G-Value" of 0.55

All Fasteners, Mastics & Fillers are supplied via CA Building Products, as part of the CA Twin-Therm System.

Roof Construction proposed by IRC Carocelle Ltd for this project is strictly in accordance with CA Installation Guides and will provide a complete 25-Year Warranty.

<u>Note</u>: Whilst Rooflights achieve a Non-Fragility Classification, we do not recommend they are walked upon, as damage (due to cracking, etc.) may occur.

## **Roof Safety System**

SFS Soter II Safety Systems to be installed on the main warehouse, office, and hub office roof

System comprised of:

- Stainless steel posts directly riveted to CA Twin Therm Quantum Roof Structure
- Waterproof Detail to prevent water ingress
- Located around the perimeter of the roof (relocated to 2300mm away from any roof edge) and
- Restraint only system to be used with a standard-length lanyard

## External Main Warehouse & Office Eaves Gutters

Rainwater disposal along the Main Warehouse & Office Eaves to be by means of a Single Skin Gutter, complete with a bonded membrane to the water bearing surface.

The Single Skin Eaves Gutter compromises of the following:

- Tata Aquatite 1.2mm thick Membrane Laminated to 1.2mm thick Galvanised Steel
- 1062mm Girth

Gutters are manufactured in standard 4,000mm lengths. The External Membrane is hot air welded to provide a continuous External Water Bearing Surface.

PIRC

All Gutters are laid flat, <u>NOT</u> to falls.

## **Internal Main Warehouse & Office Valley Gutters**

Rainwater disposal along the Main Warehouse & Office Valley to be by means of factory-Insulated Gutters, complete with a bonded membrane to the water bearing surface.

The gutters are composed of the following:

- Tata Aquatite 1.2mm thick Membrane Laminated to 1.2mm thick Galvanised Steel
- 1250mm Girth
- 50mm Rock-Fibre Insulation
- 0.5mm Standard Bright White Liner internal

Gutters are manufactured in standard 3,600mm lengths. The External Membrane is hot air welded to provide a continuous External Water Bearing Surface.

All Gutters are laid flat, <u>NOT</u> to falls.

### **Hub Office External Eaves Gutters**

Rainwater disposal along the Hub Office Eaves to be by means of a Single Skin Gutter, complete with a bonded membrane to the water bearing surface.

The Single Skin Eaves Gutter compromises of the following:

- Tata Aquatite 1.2mm thick Membrane Laminated to 1.2mm thick Galvanised Steel
- 1060mm Girth

Gutters are manufactured in standard 4,000mm lengths. The External Membrane is hot air welded to provide a continuous External Water Bearing Surface.

All Gutters are laid flat, NOT to falls.

## Wall Cladding - Horizontal Built-Up

CA Twin-Therm Horizontal Built-Up Cladding compromising of the follow:

- CA 300MR Top Sheet Colour: Albatross (RAL 240 80 05), Alaska Grey (RAL 7000), Merlin Grey (RAL 180 40 05), or Anthracite (RAL 7016) with a HPS200 Ultra finish
- CA MatriX Spacer Bar System
- 120mm Therma-Quilt insulation
- 0.4mm CA 17/1000L Profile Liner Sheet, Bright White Colour
- System to achieve a U Value of 0.35 W/m<sup>2</sup>K

# IRC CAROCELLE ROOFING & CLADDING

Wall Cladding - Vertical Built-Up

CA Twin-Therm Vertical Built-Up Cladding compromising of the follow:

- CA 32/1000 0.7mm Trapezoidal Profiled Top Sheet Colour: Albatross (RAL 240 80 05) with a HPS200 Ultra finish
- CA MatriX Spacer Bar System
- 120mm Therma-Quilt Insulation
- 0.4mm CA 17/1000L Profile Liner Sheet, Bright White Colour
- System to achieve a U Value of 0.35W/m<sup>2</sup>K

The Side Laps and End Laps of both the Liner Trays and the External Sheets are to be fixed using fixings supplied by CA Building Products while all Side Laps and End Laps are to be sealed using Butyl Strip Mastic and T-Foil Tapes supplied by CA Building Products.

The wall cladding is to be complete with matching Flashings and Trims, including Foam Fillers as appropriate.

All Built-Up Cladding within Firewall Zones has been fixed in accordance with CA Twin-Therm System Recommendations.

The Wall Construction proposed by IRC Carocelle Ltd for this project is strictly in accordance with the CA Twin-Therm System Recommendations and will provide a complete 25-Year Warranty & 40-Year Confidex.

# IRC CAROCELLE ROOFING & CLADDING



**Certificates/Warranties/Guarantees** 





# SFS FALL PROTECTION RECOGNISED INSTALLER

This Certificate certifies that

Chris Adams

Unique Safety Systems

Has successfully completed a course on SFS Fall Protection systems including the SOTER<sup>®</sup> II Horizontal Lifeline, SFS Vertical, Overhead and Wall mounted systems.

# **Topics Covered:**

Product Development & performance System components, fixing options and approvals Testing standards EN795/ CEN/TS & ACR Magenta Product selection, design considerations and system limitations



Certificate #: UK-04052022CA-HURL

Jane Bha

David Cookson Senior Sales Manager SFS Fall Protection

Expiry date: 04/05/2024

**COMPLETION CERTIFICATE** 

# No. 0378



# Unique Safety Systems Unit 4 Winster Grove

Unit 4 Winster Grove Great Barr Birmingham B44 9EG Tel: 0121 325 2600 Fax: 0121 325 2610

Contract No:	Project Name: WAKEFIELD		
Client Name: IRC CAROCELLE	Job Description: COMPLETION OF SOTER II SYSTEM		
Client Address: UNIT 12A MATBROOK IND. ESTATE WALWALL WOOD WS8 7DG	Site Address: WINVIC CONST. TUNSSTEN PROPERTIES CALDER PARK WAKEFIELD WF2 7BJ		
Date installation completed: 2002 Installers Comments / Remarks:			
This contract has been carried out and completed to ou         Please Print Name         Simon         We confirm that the above installation is now complete and conforms to the contract order and conforms to the relevant order order and conforms to the relevant order and conforms to the relevant order or	r / my satisfaction: Signed on behalf of client. has been installed in accordance with the conditions and		
FOR AND ON BEHALF OF UNIQUE SAFETY SYSTEMS			
DATE: 27 4 2022			



# No. 0381

VARAL ICHALLING



Unit 4 Winster Grove Great Barr Birmingham B44 9EG Tel: 0121 325 2600 Fax: 0121 325 2610

Contract No:	Project Name:
C 150	WAKEFIELD
Client Name:	Job Description:
IRC CAROCELLE	COMPLETION OF SYSTEM + OF PPE
Client Address:	Site Address:
UNIT 12A	WINVIC CONST.
MATBROOK IND. ESTATE	TUNSSTEN PROPERTIES
(1915ALL (NORD	CALDER PARK
	WAKEFIELD
W38 109	WF2 7B1
Date installation completed: 4 5 201	22
Installers Comments / Remarks:	<u>, , , , , , , , , , , , , , , , , , , </u>
This contract has been carried out and completed to ou	r / my satisfaction: Signed on behalf of client.
	•
We confirm that the above installation is now complete and requirements of the contract order and conforms to the rele	has been installed in accordance with the conditions and want specification(s) / drawing(s).
FOR AND ON BEHALF OF UNIQUE SAFETY SYSTEMS	
INSTALLERS SIGNATURE: M. Me	
DATE: 4 5 2022	



# SFS FALL PROTECTION RECOGNISED INSTALLER

This Certificate certifies that

**Martin Lane** 

Unique Safety Systems

Has successfully completed a course on SFS Fall Protection systems including the SOTER<sup>®</sup> II Horizontal Lifeline, SFS Vertical, Overhead and Wall mounted systems.

# **Topics Covered:**

Product Development & performance System components, fixing options and approvals Testing standards EN795/ CEN/TS & ACR Magenta Product selection, design considerations and system limitations



Certificate #: UK-04052022ML-HURL

Janidlaha

David Cookson Senior Sales Manager SFS Fall Protection

Expiry date: 04/05/2024



# **TEST CERTIFICATE**

CERTIFICATE NO. C750/05/22

CONTRACT NUMBER	C750	DATE OF TEST	May-22
IRC Carocelle Limited Unit 12 A, Maybrook I Walsall Wood WS8 7DG TELEPHONE: 01543 37	ndustrial Estate 9800	SITE ADDRESS Tungsten Properties Calder Park Wakefield WF2 7BJ	
TYPE OF SYSTEM	Soter II Wire based Sy Restraint Only System	ystem to roof	NOTE: Standard BS EN 365 : 2004
LOCATION OR REFERENCE 13 No. Soter II System installed to CA Twin Therm Quantum roof System includes 93 No. Stainless Steel Posts			Personal protective equipment against falls from a height - "General requirements for instructions for use
DESCRIPTION OF TEST / EXAMINATION In compliance with EN 7883:2019, BS EN795:2 CEN TS 16415:2013 Pull tested cable swages to 15 kN RESULTS PASSED		9, BS EN795:2012 +	and for marking" requires the system(s) be examined and serviced at least once every twelve months by a competent person authorised by Unique Safety Systems
THIS CERTIFICATE IS USED TO RECORD	EXAMINATIONS WHICH MAY OR MAY NOT I	NCLUDE PROOF TESTING	

TESTED BY:-	Chris Adams	MAXIMUM NUMBER OF USERS	Two
WITNESSED BY: Martin Lane		RE-TEST BEFORE	May 23
COMPANY	Unique Safety Systems		iviay-23

Unique Safety Systems certify that the system(s) described are fit for the use as given in the operation and maintenance instructions

# **Unique Safety Systems**

Unit 4, Winster Grove, Great Barr, Birmingham B44 9EG TEL: 0121 325 2600 FAX: 0121 325 2610

Doc: UNIQUER61



# **Complete Assurance Envelope Guarantee**

for

Unit 1 Tungsten, Wakefield

> SP0349-A-EI-1 Rev 1 Rev: 4.2 October 2020

# **Guarantee Particulars**

Applicant Reference:	C2172
Commencement Date:	21 October 2021
Guarantee Period:	25 years
Initial Inspection Date:	20 June 2022

Building:	Unit 1
Location:	Tungsten Properties, Calder Park, Wakefield, West Yorkshire, WF2 7BJ
For use as:	Distribution/ warehouse
Design External Environmental Conditions:	Class B - Industrial / Urban
Design Humidity Class:	Class 3 - Building with Low Occupancy
Beneficiary:	Tungsten
Occupier:	British Airways Pension Trustees Ltd
Cladding Contractor:	IRC Carocelle
Main Contractor:	Winvic Construction Ltd
Architect:	HTC Architects



# **Definitions**

Architect:	means the person or persons named in the Guarantee Particulars
Beneficiary:	means the person or persons named in the Guarantee Particulars
Cladding Contractor:	means the person or persons named in the Guarantee Particulars
Company:	means CA Group Limited
Company Standards	means the Company's standards for quality, temper, gauge, shape, physical and geometric properties, thermal insulation properties and strength current at the date of manufacture of each component part of the System
Competent Inspector	means a person, persons or body employed by the Company with sufficient training, experience and knowledge, in respect of the mechanical and physical properties of the material, components, structure, installation, assembly, inspection, repair and maintenance of the System, including thorough knowledge of safe working practices and statutory requirements.
Competent Person / Competent Contractor	means a person, persons or body with sufficient training, experience and knowledge, in respect of the mechanical and physical properties of the material, components, structure, installation, assembly, inspection, repair and maintenance of the System, including thorough knowledge of safe working practices and statutory requirements.
	Advice on competent persons is detailed in ACR[CP]005, 'Guidance note for competence and general fitness requirements to work on roofs' covering inspection, new build, maintenance, repair and refurbishment work.
Components	the constituent parts of the System to be supplied by and/or as approved by the Company for use in the System at the Guarantee Commencement Date (inclusive of non-system components manufactured by The Company, as stated in Appendix 3)
Envelope	means those elements of the external weatherproof fabric of the building comprising of the System (as defined herein)
Guarantee	means the Guarantee Particulars, the Guarantee, the Terms and Conditions and Appendices 1 & 2.
Guarantee Commencement Date	means the date of the Company's first acknowledgement of order for the whole or part of the System as stated in the System Guarantee Particulars
Main Contractor	means the person or persons named in the Guarantee Particulars
Non-Fragility	means the performance of the roof assembly as described and detailed in the System Installation Instructions and Technical Information Paper TIP-101, current at time of Guarantee Date ensuring compliance of the System as tested and classified by the Company in accordance with ACR[M]001, 'Test for Non-Fragility of Large Element Roofing Assemblies'
Occupier	means the Beneficiary's tenant stated in the Guarantee Particulars
System	means the envelope product; roof, walls and gutters; as stated in Appendix 3.
	Not covered by this guarantee are the items supplied by others, such as, but not restricted to Photo Voltaic arrays, solar thermal systems, smoke vents, access hatches and other roof furniture not manufactured by the Company, but with agreed connection details, including fasteners and sealants
System Installation Guidelines	means the Company's Installation Guide(s) current at the System Guarantee Date
Weather Event	A period of severe inclement weather including but not limited to high winds, gales including heavy rainfall or hail or excessive snowfall



## Guarantee

This Guarantee is given for the building Envelope, comprising of the following system(s) (the "System") when all used together;

#### Roof >

- Twin-Therm® Quantum Roof & Rooflights
  - 0.23W/m<sup>2</sup>K roof U-value incorporating CA 17 1000L x 0.4mm liner panel and MatriX Spacer System, with CA 32 1000R external profile. Integral GRP Therma-light rooflights incorporating TC-10M intermediate core achieving 1.30W/m<sup>2</sup>K U-value.

#### Walls >

- Twin-Therm® Wall
- 0.35W/m²K U-value incorporating CA 17 1000L x 0.4mm liner panel, MatriX Spacer System and CA 32 1000W/ CA 300MR external profile(s).
- Colorcoat HPS200 Ultra® weathering sheets and Bright White Lining Enamel and Components.

#### > Gutters

- Caskade® PREMIER Insulated Gutter System •
  - 1.2mm thick steel substrate / 1.2mm thick Fatra PVC membrane Insulated with 50mm thick Rock Fibre complete with 0.7mm thick steel liner
- Caskade® Premier Single Skin Gutter, comprising
  - 1.2mm thick steel substrate / 1.2mm thick Fatra PVC membrane
  - Fatra PVC membrane, Bright White Lining Enamel and Components.
- In consideration of entering into a contract to manufacture and/or supply the System, the Company has agreed to provide this Guarantee to the Beneficiary. 2.
- The Company warrants that 3
  - The System supplied for use at the Building / Location, has been designed and manufactured in accordance with the Company Standards. b.
    - Provided always that the System has been installed in strict compliance with the System Installation Guide(s), the Company warrants that for a period of 25 years, from the Guarantee Commencement Date: The Company has exercised the reasonable skill and care to be expected of a competent designer of the System, including but not restricted to durability, thermal and structural performance, Non-÷ Fragility and air permeability.
      - ii The Company has exercised reasonable skill and care to be expected of a competent manufacturer and/or supplier of the System
    - iii.
    - The System has been designed in accordance with the design internal humidity and design external environmental conditions as stated in the Guarantee Particulars. Any System Components replaced (in part or whole) and installed strictly in accordance with the System Installation Guide(s) for the remainder of the Guarantee period. iv.
- Δ This Guarantee is conditional on:
  - The System having been inspected and maintained at all times in accordance with the inspection and maintenance procedures set out at Appendix 1 (Inspection) and Appendix 2 (Maintenance) to this Guarantee.
  - Any part or parts of the System requiring replacement as identified during an inspection being replaced within such reasonable period of time as the Company may agree, such agreement not to be b. unreasonably withheld or delayed.
  - Subject to 4b above, any maintenance and/or repair identified during an inspection being undertaken and completed within one month of the actual date of inspection. c
  - Full comprehensive and complete written record(s) of each and every inspection (mandatory or otherwise) and of any maintenance or repair work subsequently undertaken (such record may be in the form of the Company's 'Inspection & Maintenance Record Template for Building Envelope') shall be made available to the Company at the time the Beneficiary makes a claim under this Guarantee. d.
  - The information at Appendix 3 (Building Information) is true and accurate. ρ f
  - The System having been installed strictly in accordance with the System Installation Guide(s), current at time of the Guarantee Commencement Date.
  - The Beneficiary having signed, dated and returned this Guarantee to the Company within one month of date of the Company's signature to this Guarantee. g.
  - h. Each mandatory inspection having been undertaken within one calendar month of the required inspection date.
  - The System when installed comprises only of Components supplied by the Company
  - The Terms and Conditions of the Guarantee being observed and complied with at all times. j,

Signed on behalf of the Company:

SR-

Technical Director

27 July 2022

Date

Signed on behalf of the Beneficiary:

Director

Date





# **Terms and Conditions**

- 1. Any part or parts of any structure supporting the System are excluded from the Guarantee.
- 2. The Company's liability to the Beneficiary for the Components under or in connection with this Guarantee in contract, tort (including negligence) breach of statutory duty or otherwise howsoever arising shall be no greater than the liability owed by any manufacturer or supplier of such Components owes to the Company.
- 3. The Company's liability under the Guarantee is limited to replacement or repair of the whole or part of the System, which it shall at its sole discretion decide.
- 4. The Company shall not be liable to the Beneficiary for any other claims, losses, expenses or damage whether direct, indirect or special howsoever arising from any breach by the Company (of this Guarantee and/or of the contract under which the System is manufactured and supplied) whether in contract, tort (including negligence) breach of statutory duty or otherwise howsoever arising to the extent liability can be limited or excluded at law.
- 5. Nothing in this Guarantee shall:
  - a. relieve the Beneficiary or others of their duty or liability for ensuring the structure supporting the System, in whole or part, is designed to withstand appropriate loadings and constructed in accordance with good engineering practice.
  - b. relieve the Beneficiary of his duty or liability for ensuring that any person or persons responsible for installing the System does so in a workmanlike manner, in accordance with good engineering practice and strictly in accordance with the Company's Installation Guide(s) current at Guarantee Commencement Date.
  - c. guarantee the performance and durability of any touch up paint, over-paint or repair unless such works are undertaken by the Company or others on behalf of the Company.
- 6. Any loss or damage to the System and/or Components caused by any of the following is excluded from this Guarantee:
  - a. when the Components are subjected to or exposed to contact with harmful liquids, substances, chemicals, fumes, gases, radiations, wet, green or treated timber, internal or external stresses for which the System has not been designed.
  - b. during handling, distribution, storage and/or installation or any other events and conditions, which have or may have deleterious effects on the Components.
  - c. where Components are generally exposed to temperatures greater than 60°C or less than -20°C unless they are adequately insulated (e.g. for hot/cold flues/pipes).
  - d. due to ponding on the weathering sheets.
  - e. ponding due to improperly sealed weathering sheet end and side laps, (see System Installation Guide(s)) thereby allowing retention of water and/or other contaminants.
  - f. misuse of the System or any wilful damage or negligent act or omission to act.
  - g. corrosion or other effects due to other materials comprising the Building being in contact with Component(s).
  - h. corrosion due to entrapment (including but not limited to entrapment within overlaps) of pollutants or due to abnormal atmospheric pollution levels or due to contact with deleterious gases, fumes or chemicals.
  - i. when the internal lining and/or the underside of the weathering sheets is open and/or exposed to external environmental and or climatic conditions.
  - j. without limitation all defects and/or damage caused by water in all its forms, storms, flooding or any other natural occurrence, force majeure, that a prudent person when taking out a building insurance policy would normally include cover for by such insurance.
- 7. This Guarantee is null and void if:
  - a. there has been any change in use of the Building to that as stated in the Guarantee Particulars, without prior written consent of the Company, such consent not to be unreasonably withheld or delayed.
  - b. there has been a change in the Building internal Design Humidity Class, and/or the Design External Environmental Conditions, without prior written consent of the Company such consent not to be unreasonably withheld or delayed.
  - c. there has been any alteration, extension, modification, re-erection, repair or maintenance work, or attachment made to the System, without the prior written consent of the Company (such consent not to be unreasonably withheld or delayed) and in the event of consent being given the work is not carried out by a competent contractor.
  - d. there has been any change to the structure supporting the System and/or the System during the Guarantee Period without the prior written consent of the Company, such approval not to be unreasonably withheld or delayed.
  - e. within one month of any person becoming aware of any damage or loss of integrity of the System, remedial work has not been initiated in accordance with Appendix 1 by a Competent Contractor.
  - f. any maintenance has been undertaken that was not in accordance with recommendations noted in Appendix 2, was undertaken without the prior written consent of the Company.
  - g. the System is fixed to secondary steelwork or supports of less than 1.4mm thick (S450GD) / 1.5mm thick (S350GD) or greater than 10 mm thick.
  - h. the Company has not been paid for in full for the manufacture and/or supply (as the case may be) of the whole of the System.
- 8. The Company shall have no liability whatsoever for claims, losses, expenses or damage, whether direct, indirect or special howsoever arising from any wear and tear to the System.
- 9. Neither the Company nor the Beneficiary shall assign (whether legal or equitable) this Guarantee without the agreement which will not be unreasonably withheld or delayed.
- 10. In the event of a claim under this Guarantee, the Beneficiary shall allow the Company and/or its agents, reasonable and sufficient access to the System for the purpose of carrying out inspections, investigations, testing or remedial works during normal working hours. Insofar as possible, the Beneficiary shall not, save for in the case of an emergency, undertake or allow others to undertake any work to the System until such inspections, investigations or testing by or on behalf of the Company have been completed. In the event that emergency repairs are necessary to maintain the integrity of the Building any Components removed must be stored and made available for inspection by the Company.
- 11. Any notice given under this Guarantee by the Beneficiary must be delivered to the Company's registered office.
- 12. Nothing in this Guarantee confers or purports to confer any right to enforce any of its terms on any person who is not a party to it.
- 13. The Law of England and Wales shall be the law applying to this Guarantee.
- 14. This Guarantee shall be subject to the exclusive jurisdiction of the courts of England and Wales.



# **APPENDIX 1: 'Inspection'**

The Company will contact the Occupier and/or Beneficiary to facilitate such inspections. Following every inspection, a summary report will be issued to the Occupier and/or Beneficiary identifying any remedial works required. Dependent upon the established cause, The Company will also provide costs to undertake any remedial works identified.

When using cleaning, maintenance and repair products, noted throughout Appendix 2 to the Envelope Guarantee, in the interests of personal safety, health & hygiene, product manufacturers'/suppliers' advice and instructions on the use of their products/supplies must be strictly followed.

#### Inspection of the System

Inspections based upon good practice must be carried out throughout the life of the Building, by the Company's Competent Inspector(s), free of charge, subject to access. Any evidence of change to the local environment which could cause premature degradation of the System.

Inspections of the system must be conducted;

#### All Systems

- 1. during installation of the Systems (roofs, rooflights, walls and wall lights)
- 2. immediately after installation of the Systems
- 3. at practical completion of the Building
- 4. on or before the 12 month anniversary of the practical completion of the Building
- 5. thereafter, every three to five years, based upon findings from previous inspections (up to 25 year guarantee periods. For guarantees beyond 25 years, annual inspections
- are to be conducted beyond 25 years) and6. immediately following the occurrence of any Weather Event

#### **Gutters Only**

- 7. during the installation of the System Gutters (including drainage pipework, whether gravity or siphonic);
- 8. immediately after installation of the System Gutters;
- 9. at practical completion of the Building;
- 10. on or before the 12 month anniversary of the practical completion of the Building
- 11. thereafter, on no less than a once every 12 months basis and
- 12. immediately following the occurrence of any Weather Event.

The maximum periods between inspections specified above may be reduced to 6 months if, in the reasonable opinion of the Company, the nature, characteristics or situation of the Location or the Building reasonably require that more regular inspections should take place, and must be identified in the inspection report.

# **APPENDIX 2: 'Maintenance'**

#### Roof, wall cladding & interface junctions

Full and comprehensive written record(s) of each and every inspection (mandatory or otherwise) and of any maintenance or repair work subsequently undertaken (recording may be in the form of the Company's 'Inspection & Maintenance Record Template for Building Envelope').

#### Washing/Cleaning

Rainfall alone is often sufficient to keep exterior surfaces looking clean and bright. However, to achieve maximum life from the product, it is important that accumulations of dirt and debris which are not removed by normal rain washing are removed regularly by cleaning. This reduces the risk of 'wet poultice' corrosion, i.e. water retention due to debris.

Washing may be carried out with a hose and a soft bristle brush, using fresh water. In areas where heavy industrial deposits dull the surface, a solution of fresh water and good quality household detergent or proprietary cleaner may be applied to ensure thorough cleaning. For household detergents, use a maximum 10% solution; for proprietary cleaners, follow the manufacturer's recommendations. A thorough rinse with clean water must follow the wash. (*Note: only use a household type hose, with normal tap pressure, (i.e. \leq 80psi). At no point should pressure washers be used as water pressure being delivered could be \geq 2,000psi, which may result in damage to coatings and or components installed).* 

Proprietary cleaners are available from suppliers listed in the Company's 'Inspection & Maintenance Record Template for Building Envelope'. Caution: when cleaning, the following points should be noted:

- 1. Stronger concentrations of cleaners than those recommended can damage coating surfaces.
- 2. Rinse thoroughly to remove all detergents after cleaning.
- 3. Organic solvents and abrasive cleaners should be avoided in cleaning any coated surface. Caulking components, tar and similar substances may be removed with mineral spirits, but wash the surfaces thoroughly afterwards.
- 4. Always clean coated surfaces from top to bottom and rinse immediately and thoroughly with fresh, clean water.
- 5. Over-cleaning or scrubbing can do more harm than good.

#### **Mould/Fungal Growth**

Some types of local environment are particularly conducive to mould growth, i.e. areas of wet, dark, wooded surroundings or low-lying marshland. In these areas, mould will grow, even on inert materials such as glass.

Mould/fungal growth can be removed by treatment with a basic solution of the following ingredients, by weight, which should be available from local chemical suppliers. Before using the first three of these ingredients, you should refer to the manufacturers' health and safety information.

Good quality household detergent or proprietary cleaner	0.50
Trisodium phosphate	3.00
5% sodium hypochlorite solution	25.00
Fresh water	71.50
	100.00

Before applying this mixture, wash down first, as explained under *Washing* (above), then apply the mixture to all surfaces by low-pressure spray or brush. All surfaces must then be rinsed with cold water within twenty-four hours.

#### Fasteners/Fixings

Ideally these should be left undisturbed please contact the Company for advice.



#### **Treatment of Edge Corrosion**

Corrosion at the edges of the profiled steel cladding may be rectified as described below. However, if edge corrosion is observed contact the Company prior to any remedial work being undertaken.

- 1. Cut and remove, or abrade, any loose organic coating back to a firm point.
- Remove all white and red rust by sand blasting to BS 4232 second quality (Swedish Standard ST2) or by abrading to bright, firm metal, ensuring that the surface is not polished. Thoroughly clean and dry these surfaces before applying the specified materials, which must be applied as directed by the recommended paint system manufacturer.
- 3. Coat the prepared areas with the relevant anti-corrosive primer recommended by the materials supplier.
- 4. When the first primer coat has dried, apply a further primer coat in a neat band to the prepared area so that the primer extends beyond the prepared area, covering the original surface.
- 5. Apply a topcoat to the dry, primed area.

Materials are available from the recommended suppliers listed in the Company's 'Inspection & Maintenance Record Template for Building Envelope'. Reparation contractors are listed in the Company's 'Inspection & Maintenance Record Template for Building Envelope'.

#### Local Damage Touch-Up (Metal Sheets)

During inspections, you may find that the coating has suffered some damage. It is better not to treat the surface of the product if it has been only slightly scuffed. If it is scratched more deeply, say, down to the substrate, the damage can be repaired by applying standard touch-up paint. It is important to ensure that the applied paint is no wider than the original scratch. To achieve this, the paint should be applied with an artist or child's medium to fine paintbrush. Touch-up paints are, of necessity, air-drying; over the years they will change colour differently from the original stoved coating. For this reason, it is good practice to keep the applied area as small as possible.

Should the System have suffered impact or structural damage please contact the Company for further advice. Recommended touch-up systems are available from the suppliers listed in the Company's 'Inspection & Maintenance Record Template for Building Envelope'.

#### Rooflights: Therma-light (GRP) Weather Sheet Inspection, Maintenance and Protection

The Company recommends inspections be carried out at the same time as the metal weathering sheets and details of inspection – findings and maintenance work undertaken must be recorded in the Company's 'Inspection & Maintenance Record Template for Building Envelope'. In addition we recommend that Therma-lights be inspected following periods of severe inclement weather e.g. high winds and gales.

- 1. Any build-up of debris, including any debris remaining after the Therma-light has been fixed such as drilling swarf, loose fixings and rivets should be carefully cleared from the Therma-light, using a soft brush to avoid scratching the surface of the GRP.
- 2. Areas retaining dirt should be cleared away with a soft brush / cloth and cleaned with a mild household detergent solution 10% in water to preserve the Therma-light. Rinse off with clean water.
- 3. Any growth of moss on or around the Therma-light should be carefully removed and the Therma-light cleaned with a mild household detergent solution 10% in water and a soft brush / cloth. Rinse off with clean water.
- Local Damage ~ replace depending on severity, if in doubt contact the company, else use the following guidelines, which is an extract from Technical Information Paper TIP-104 'GRP Therma-light Rooflight Damage';

#### Bruises

- A GRP Therma-light with an area of bruising (where the protective film has not been penetrated) no greater than a 50p piece (or a 30mm rooflight washer) will remain serviceable and no further remedial action is required unless unsightly. For aesthetic reasons the client may insist on the Therma-light in question being replaced.
- ) If the area of damage is completely white (severe bruising) and is less than 30mm diameter, then the Therma-light must be replaced.
- > Any Therma-light with an area of bruising greater than a 30mm diameter must be removed and replaced to maintain structural integrity, longevity and Non-Fragility of the assembly.

#### Punctures

- > If the surface of the GRP Therma-light is slightly crazed but still hard then the rooflight can remain, with no detrimental effect.
- If a Therma-light is punctured or if the centre of the impact feels 'soft' (where the resin has been broken away from the glass fibres) or if the surface protection layer has been ruptured, then the Therma-light must be replaced, however small the area of damage.

#### Side Lap Damage

- Often caused during construction due to rope holding down the packs of rooflights, or indeed individual rooflights until such time they are installed. This damage is generally outside the critical zones for both Non-Fragility and durability, whilst unsightly the rooflights can be left insitu. Additional side lap stitching screws may be required either side to ensure Non-Fragility is not compromised.
- 5. During inspections, care should be taken to check the condition of fixings including tightness and to replace or tighten them as necessary. Contact the Company for the recommended replacement procedure.
- 6. Should the Therma-lights suffer any structural or impact damage whatsoever, they must be replaced. Contact the Company for further advice if in doubt.

#### Wall-lights: Therma-light CF40 Polycarbonate

- 1. Polycarbonate is vulnerable to scratching. Do not scrub with brushes, abrasive materials or sharp instruments as these will mark/damage the surface. Never use solvents, alkaline cleaners, thinners or abrasive cleaners, white spirit, petroleum ether (BP65), methyl alcohol (methanol), acetone, petrol, benzene.
- 2. Should the polycarbonate panels suffer any structural or impact damage whatsoever, they must be replaced. Contact the Company for further advice if in doubt.





#### Gutters

It is a mandatory requirement that the gutters are inspected by the Cladding Contractor after unloading at site and after gutter installation is completed. All mechanical damage etc. occurring during gutter transport, unloading and installation must be repaired immediately before or after installation (whichever is practical).

#### Gravity drainage system

BS EN 12056-3, Section NE.5.1 states; "Gutters, rainwater pipes, outlets and gratings should be inspected and thoroughly cleaned once a year, or more often if the building is in or near to an industrial area or is near trees or may be subjected to extremes of temperature."

#### Siphonic drainage system

BS 8490: 2007, Section 12.1 states; "During the first year of operation, it is recommended that inspection, etc. should be carried out four times a year in order to establish an appropriate maintenance regime. The regime should take account of autumn leaf fall and the fact that intense rainfall tends to occur during summer storms."

#### Maintenance

- 1. General coating and galvanised material damage repair as PVC Membrane Repair.
- Any build up of debris including debris remaining after the roof installation e.g. drilling swarf, loose fixings, rivets should be cleared from the gutters taking care not to scratch/damage the protective surface.
- 3. Areas of dirt compaction and any other vegetable matter i.e. soil, twigs, weeds, should be carefully removed and contaminated areas hosed down and cleaned with fresh water.
- 4. Check outlets are clear and re-protect welds if necessary as PVC Membrane Repair.

#### **PVC Membrane Repair**

When repairing damage to the PVC membrane, all repair patches should be fully welded with a minimum weld of 50mm in all directions from any damage i.e. if damage is 2mm wide by 50mm long then the repair patch is required to be a minimum of 102mm wide by 150mm long.

When cleaning out gutters any build-up of detritus should be collected using non-metallic tools, i.e. soft bristled brushes / brooms, PVC shovels (preferably snow shovels).

The recommended method of repair is as follows:

- 1. Sweep gutters clean of debris.
- 2. In the area of damage, dry surface and remove any loose coating particles by gently scraping.
- 3. Remove any zinc salts or rust on exposed galvanised surface by abrasive cleaning using a non-metallic media.
- 4. Supplies of membrane patches and seam sealer can be obtained from the Company.
- 5. Wash damaged area with water and washing-up liquid, rinse off and dry thoroughly before commencing any repair work.
- 6. Repair scratches in membrane with seam sealer (see system Installation Instructions).
- 7. Where the membrane is badly scuffed, torn, ripped or damaged exposing the galvanised metal, heat weld a membrane patch to an area covering plus 50mm all round the damaged section (refer to gutter installation instructions). Apply seam sealer to the welded edges of the patch.

If in doubt about any aspect of gutter inspection, maintenance or repair, contact 'The Company' for advice.



# **APPENDIX 3 'Building Information'**

Please add / amend text to ALL relevant cells for your guarantee application or use the drop-down facility to select from the lists. Any questions or to submit completed forms please send to guarantees@cagroup.co.uk. Applications can take up to 14 working days to process, failure to complete all the relevant cells on this form may result in your application being delayed.

Building:	Unit 1	Beneficiary/Owner:	Tungsten
Contact:	Ashleigh Hayes	Contact:	Ashleigh Hayes
Email:	Ashleighhayes@tungsten.uk.com	Email:	Ashleighhayes@tungsten.uk.com
	Tungsten Properties, Calder Park,		Gateway House, Penman Way,
Address:	Wakefield, West Yorkshire	Address:	Grove Park, Leicester
Post Code:	WE2 7BJ	Post Code:	LE19 1SY
	British Airways Pension Trustees	Cladding	
Occupier:	Ltd	Contractor:	IRC Carocelle
Contact:	Ashleigh Hayes	Contact:	Callum Clohessy
Email:	Ashleighhaves@tungsten.uk.com	Email:	Design.carocellegroup.co.uk
	British Airways Pension Trustees		
	Ltd. Waterside, HAA1.		Unit 12A, Mavbrook Industrial
Address:	Harmondsworth	Address:	Estate
Post Code:	UB7 0CB	Post Code:	WS8 7DG

Main Contractor:	Winvic Construction Itd
Contact:	Peter Barker
Email:	peterbarker@winvic.co.uk Brampton House, 19 Tenter Boad Moulton Park
Address:	Northampton
Post Code:	NN3 6PZ
Architect:	HTC Architects
Contact:	David Wainwright
Email:	David@htcarchitects.co.uk
Address:	York Place Studio, 8 Britannia Street, Leeds
Post Code:	LS1 2DZ

#### Building Envelope Design: Roof

Period:	25 Years	-	-
System/Specification:	Twin-Therm®	-	-
Design:	Quantum <110m Radius		
U-value:	0.23W/m²K	-	-
External Coating:	HPS200 Ultra	-	-
Colours:	Goosewing Grey	-	-
Approx. Quantity:	26,600m <sup>2</sup>	-	-
External Fasteners:	Stainless Steel	-	-
External Fillers:	MP (Modifed Polvethylene)	-	-
Liner Panel:	CA 17 10001 × 0.4mm	-	-
Liner Coating:	Bright White Lining Enamel		
Enter County.			
External Roonights.	802 (2.44kg) GRP	-	-
Intermediate:	TC-10M	-	-
Internal Rooflights:	8oz (2.44kg) GRP		-
Min. Purlin Thickness:	1.5mm S450GD	-	-

#### Building Envelope Design: Wall

Period:	25 Years	25 Years		-
System/Specification:	Twin-Therm®	Twin-Therm®	-	-
Design:	Standard	Standard	-	-
U-value:	0.35W/m²K	0.35W/m²K	-	-
External Coating:	HPS200 Ultra	HPS200 Ultra	-	-
	Albatross	Merlin Grey		
	Anthracite	Albatross		
	Pure Grev	Anthracite		
Colours:		Alaska Grey		-
Approx. Quantity:	7900 m <sup>2</sup>	7400 m <sup>2</sup>	-	-
External Fasteners:	Stainless Steel	Stainless Steel		-
External Fillers:	MP (Modifed Polyethylene)	MP (Modifed Polyethylene)	-	-
External Profile (1):	CA 32 1000W	CA 300MR	-	-
External Profile (2):	-		-	-
External Profile (3):	-	-	-	-



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Every effort has been made to ensure that the details included in this document are correct. We accept no liability for any errors nor responsibility for how this information is utilised and we reserve the right to amend specifications without prior notice. This document and the information contained within it remain the intellectual property of CA Group Limited. For further guidance please contact CA Group's Technical Department at technical@cagroup.co.uk © Copyright CA Group 2020. All rights reserved

Orientation:	Vertical & Horizontal	Horizontal Only	-	
Liner Panel:	CA 17 1000L x 0.4mm	CA 17 1000L x 0.4mm	-	-
Liner Coating:	Bright White Lining Enamel	Bright White Lining Enamel		_
Min. Purlin Thickness:	1.5mm S450GD	1.5mm S450GD	-	-
Building Envelope Desig	n: Gutter			

Period:	25 Years	25 Years	-
System:	Caskade® Premier	Caskade® Premier	-
Membrane Material:	1.2mm Fatra PVC Membrane on 1.2mm Steel	1.2mm Fatra PVC Membrane on 1.2mm Steel	-
Insulation Type:	Rock Fibre	Single Skin	-
Insulation Thickness:	50mm		-

#### Non-system components manufactured and supplied by The Company

Roof:	Roof Safety Line System	
Walls:	N/A	

#### **Environmental Conditions**

Internal Humidity: Class 3 - Building with Low Occupancy

Class	Туре	Min f-value
1	Dry Storage areas	0.30
2	Offices / shops	0.50
3	Buildings with low occupancy	0.65
4	Buildings with high occupancy	0.80
5	Special buildings (swimming pools, EFWs, etc)	0.90

#### External Conditions: Class B - Industrial / Urban

Class	Туре
А	Coastal: within 1km of the coast or tidal estuary
В	Industrial / urban: areas of industrial activity
С	Suburban / rural: away from coast and remote from industrial activity

#### **Project Information**

Date of Order:	21 October 2021	Sales Order Number(s):	C2172	 
Practical Completion:	20 June 2022		-	 

#### **Cladding Contractor Declaration**

The Company is in receipt of, and has relied on, written confirmation from the Cladding Contractor, that any issues identified in any site visit report(s) and/or set out in e-mail(s) by the Company or an independent inspector to the Cladding Contractor have been rectified in accordance with the Company's recommendations and that the System and all Components have been installed strictly in accordance with the System Installation Guide(s) current at the time of installation. The Cladding Contractor also declares that all areas including gutters have been cleaned down prior to handover.





CA Group

Evenwood Industrial Estate

Copeland Road

Evenwood

County Durham

DL14 9SF

t: 01388 830222

e: technical@cagroup.co.uk

www.cagroup.co.uk

# TATA STEEL



# **Confidex Sustain Guarantee Certificate**

#### **Confidex Sustain®**

This Confidex Sustain® certificate provides a combined guarantee which covers the performance of the Colorcoat® pre-finished steel product, and makes the pre-finished steel building envelope CarbonNeutral®. Tata Steel UK Limited have measured the CO2 emitted by the pre-finished steel building envelope from manufacture through to installation, use and end of life and has invested in a climate friendly project overseas to offset this, ensuring CarbonNeutral® status is achieved.

Using life cycle assessment data for each part of the cladding system, Tata Steel UK Limited can accurately identify how much gas that contributes to global warming has been emitted at each stage of the process. This information provides the basis for calculating the correct amount of CO2 to offset the individual building envelope project.

#### **Confidex® Guarantee**

The term "Confidex® Guarantee" refers to a guarantee of the Product against paint delamination and, where applicable, a guarantee against excessive colour change. This certificate validates the Confidex® Guarantee in respect of the Building identified below. This certificate is evidence of the relationship between Tata Steel UK Limited and the Building Owner (which term means Tata Steel UK Limited's original customer or any notified transferee who is the registered freeholder of the Building). Please keep it in a safe place and make a note of the guarantee registration number. The paint delamination guarantee is based on and lasts for the Guarantee Period (as stated below), which is the length of time before a Building Owner needs to consider whether to repaint the Building's exterior. It is guaranteed that, for this period, on any single plane (i.e. one wall or one roof slope), not more than 5% or 100 square metres of the painted surface, whichever is the lesser area, will be affected by paint delamination. If the Product does not meet these criteria, Tata Steel UK Limited will restore the defective material according to the terms of this Confidex® Guarantee.

Guarantee number:	56959	CO <sub>2</sub> Offset:	925594.9737
Building owner:	Tungsten Properties Ltd		
Building address:	Unit 1, Tungsten Properties, Calder Park, Wakefield,	Registration date:	Aug 02, 2022
	West Yorkshire, WF2 7BJ	Completion date:	Jun 20, 2022
Architect:	HTC Architects	Guarantee start date:	Jun 20, 2022
System manufacturer:	CA Group Ltd		
Main contractor:	Winvic Construction Ltd		
Cladding contractor:	IRC Carocelle		

### Colorcoat® Assessed systems: CA 32/1000R CA 32/1000W CA 300MR

Product	Application	Colours	Guarantee Period (years)	Local Environment
Colorcoat HPS200 Ultra® Zone 1	Roof	Goosewing Grey	40	Inland
Colorcoat HPS200 Ultra® Zone 1	Walls	Albatross	40	Inland
Colorcoat HPS200 Ultra® Zone 1	Walls	Merlin Grey	40	Inland
Colorcoat HPS200 Ultra® Zone 1	Roof & Walls	Alaska Grey	40	Inland

The Confidex® Guarantee for the Product requires the Building Owner to perform certain tasks to maintain the benefit of the Confidex® Guarantee.

#### **Obligations of the Building Owner**

1. In general, no inspection or maintenance is required to maintain the validity of the Confidex® Guarantee, except when material is used in areas subject to build-up of dirt or debris, contact with sea spray or where Colorcoat HPS200 Ultra® or 3 layer Colorcoat Prisma® Solid, Metallic or Matt colours are used on a roof or wall that has a Photovoltaic (PV) installation. For those situations, please see Exclusions 4 and 13 and the Confidex® PV Addendum in addition to this certificate for details of the required inspection and maintenance conditions.

2. Colorcoat Prisma® manufactured in standard colours after 1st October 2017 is guaranteed against excessive colour change for the period and subject to the terms and conditions, limitations and exclusions set out in a Confidex® Guarantee Colour Addendum, which is issued on request where applicable.

3. To invoke this guarantee, the Building Owner or its agent must notify Tata Steel UK Limited in writing within 30 days of the identification of any defect (and in any event, no later than the expiry of the relevant Guarantee Period) indicating a failure of the Product to conform to the terms of the guarantee. The notification must be made using Tata Steel UK Limited's standard form document, must be sent to Tata Steel UK Limited and must include the registration number or a copy of the registration details. Tata Steel UK Limited must then be given a reasonable opportunity to inspect the alleged defect. Any notification received after 10% or 200 square metres of the painted surface (whichever is the lesser area) has been affected by paint delamination will be invalid.

4. In respect of any inspection or repair of the Product by Tata Steel UK Limited its agents or contractors, the Building Owner shall ensure that there is adequate and safe roof access.

5. The Building Owner must notify Tata Steel UK Limited of any change of building use in writing within 90 (ninety) days of such change.







#### The Confidex® Guarantee for the Product is subject to the following Limitations and Exclusions.

#### Limitations

1. This Confidex® Guarantee applies only to deterioration of the weatherside of the Product when used in standard cladding applications within Zones 1 and 2.

2. This Confidex® Guarantee includes the condition of the cut edges for the duration of the relevant Guarantee Period in accordance with this clause 2 (not applicable to material with a gauge of 1mm or more). Limited edge peel may arise from normal weathering at sheet overlaps and at eaves. However given the superior corrosion protection provided by the unique Galvalloy® substrate of Colorcoat HPS200 Ultra® and Colorcoat Prisma®, this phenomenon will not impair the functionality of the cladding. In the unlikely event that edge peel is premature and deemed to be excessive by Tata Steel UK Limited, Tata Steel UK Limited will undertake to investigate and carry out any remedial action to ensure that the cladding system will be fully serviceable at the end of the Guarantee Period. Cut edges are defined as those manufactured in factory-controlled conditions using conventional shearing procedures. Cut edges generated by alternative processes or on-site should be subject to best practice, including painting where necessary. Refer to Tata Steel UK Limited for guidance.

3. Only Buildings designed or constructed in accordance with the current guidelines on Tata Steel UK Limited website: www.colorcoat-online.com will be covered by the Confidex® Guarantee. In particular, but without limitation, all cut edges on flashings shall be welted. Flashings are only guaranteed when used in conjunction with Colorcoat HPS200 Ultra® or Colorcoat Prisma® cladding sheets or panels. Because the surface of flashings can emulate roofs, walls or both, their durability is determined by the function they perform. If a single flashing emulates both a roof and a wall, the entire flashing is assumed to have the durability of a roof. Both the design of flashings and their application to the building should follow Tata Steel UK Limited's recommendations.

4. The legal remedy of the Building Owner and the obligation of Tata Steel UK Limited (whether under this Confidex® Guarantee, tort or otherwise) is limited solely to the cost of labour and materials for restoring the defective plane during the Guarantee Period or, where relevant, the colour guarantee period. Tata Steel UK Limited shall be entitled, at its sole discretion, to determine the appropriate measures to be taken in order to provide suitable restoration in the event of failure.

5. Under no circumstances shall Tata Steel UK Limited (or any of its associated companies) be liable for any loss, damage or expense whatsoever incurred or suffered by the Building Owner (including, but without limitation, loss of profit, revenue or goodwill) howsoever such loss, damage, or expense may have been caused (including, but without limitation, any breach of contract, negligence or breach of any duty of Tata Steel UK Limited whatsoever) other than as set out under paragraph 4 above.

6. For Buildings situated at altitudes greater than 900m a 20% reduction in duration of the Guarantee Period applies.

#### Exclusions

This Confidex® Guarantee does not apply to failure or damage caused by or due to:

1. Fire, lightning, flood, explosion, abnormal winds, earthquake, acts of war, riots, civil commotion, radiation, falling objects, vandalism, ground movement or failure of foundations or other extraneous causes; 2. Misuse, wilful act, negligence or incorrect or unsuitable specification or use of the Product;

2. Misuse, winur act, negligence of incorrect of unsultable specification of use of the Product,

3. Any damage whatsoever caused to the Product during or following fabrication, storage, transport or erection;

4. Accumulations of dirt or debris or failure or damage in areas not exposed to washing by rainfall, unless such areas are washed at a frequency commensurate with both the application and external environment of the Product and the local environment of the Building (and the Building Owner's records clearly demonstrate that fact);

5. Ponding on roofs and inadequately sealed overlaps allowing retention of water and other contaminants;

6. Emissions of harmful gases, fumes or chemicals from either natural or man-made sources at or within 400m of the original erection site;

7. Exposure to continuous temperatures howsoever caused greater than: 60°C in the case of Colorcoat HPS200 Ultra®; or 90°C in the case of Colorcoat Prisma®;

8. Any screw, rivet, fastener or other attachment or thing fixed (or attempted to be fixed) to any part of the Product during or after erection, except for PV on a Colorcoat HPS200 Ultra® or Colorcoat Prisma® roof or wall which is fitted and maintained in accordance with the terms and conditions of the Confidex® PV Addendum;

9. Deterioration caused by contact with wet, green or treated timber or due to direct or indirect contact with corrosive materials;

10. Any alteration, extension or modification to or re-erection of the Product after erection, except for the installation of a PV array on a Colorcoat HPS200 Ultra® or Colorcoat Prisma® roof or wall which is fitted and maintained in accordance with the terms and conditions of the Confidex® PV Addendum:

11. The performance of any touch-up paint or overpaint used on the panels before, during or after erection;

12. Corrosion or other effects arising from elements within the Building, corrosion arising from entrapment of pollutants including (without limitation) within overlaps or from abnormal atmospheric pollution or contact with aggressive gases, fumes or chemicals;

13. Direct contact with sea spray (when in a Coastal environment), unless regular washing is undertaken to stop the build-up of salt on the Product and the Building Owner's records clearly demonstrate that fact; 14. Roofs with pitches lower than 1° (one degree);

15. Soffits; or

16. The use of Products manufactured more than 18 (eighteen) months before the Completion Date of the Building,

#### General

The Confidex® Guarantee sets out the entire agreement and understanding between the parties in respect of the subject matter of the Confidex® Guarantee and will be entered into on the understanding that: (a) neither party has entered into the Confidex® Guarantee in reliance upon any representation, warranty or undertaking of the other party which is not expressly set out or referred to in the Confidex® Guarantee. Any condition, warranty, statement or undertaking as to the quality of the Product or its fitness or suitability for any purpose however or whenever expressed or which may be implied by statute, custom of the trade or otherwise is hereby excluded, except to the extent such exclusion is prevented by law;

(b) without prejudice to (a) above, no statement or undertaking contained in any national Standard, National edition of a European Standard, ISO Standard, or other standard or technical specification as to the suitability of the Product for any purpose shall give rise to any legal liability of Tata Steel UK Limited, except to the extent such exclusion is prevented by law. The Building Owner shall satisfy itself that the Product is suitable for any product or application for which it is to be used before the Product is incorporated into such product or application;

(c) nothing in this Confidex® Guarantee shall exclude or restrict the liability of Tata Steel UK Limited for death or personal injury caused by Tata Steel UK Limited's negligence or

as otherwise prohibited by law;

(d) neither party shall have any remedy in respect of misrepresentation or untrue statement made by or on behalf of the other party which is not contained in the Confidex® Guarantee nor for any breach of warranty which is not contained in the Guarantee;

(e) this clause shall not exclude any liability for, or remedy in respect of, fraudulent misrepresentation;

(f) the Confidex® Guarantee will only become valid and binding when registered with and issued by Tata Steel UK Limited; and

(g) the Confidex® Guarantee is subject to the most recent limitations and exclusions, available on the Tata Steel UK Limited website atwww.colorcoat-online.com .

This Confidex® Guarantee shall be subject to and construed in accordance with English law; Tata Steel UK Limited and the Building Owner submit to the exclusive jurisdiction of the English courts. Enquiries about this Confidex® Guarantee should be addressed to the Colorcoat Connection® helpline. Tata Steel UK Limited is registered in England under 2280000 with registered office at 18 Grosvenor Place, London, SW1X 7HS. England.

#### Trademarks of Tata Steel UK Limited

Colorcoat, Colorcoat Connection, Colorcoat HPS200 Ultra, Colorcoat Prisma, Confidex, Confidex Sustain and Galvalloy are registered trademarks of Tata Steel UK Limited.

CarbonNeutral® is a registered trademark of Natural Capital Partners.

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Language English 0720

# **Confidex Sustain® Guarantee Transfer Notification Form**

The Confidex® Guarantee may be enforced by the Building Owner from time to time subject to Tata Steel UK Limited being satisfied that the Building Owner is the original customer or the registered freeholder of the Building. Tata Steel UK Limited owes no duty to any person other than the Building Owner under this Confidex® Guarantee but may respond to requests for its enforcement from registered leaseholders of the Building, in its sole discretion. To notify Tata Steel UK Limited of a change in the registered freeholder of the building please complete all of the sections below. Until notified to the contrary, Tata Steel UK Limited shall be entitled to rely on its records to identify the Building Owner. Please note that the notification of transfer cannot be processed without all of the necessary information.

Original registration number:	Name of new Building Owner (registered freeholder):

Date ownership changed:	Address of new owner (if different from address of building)

Contact details To help us effect the transfer quickly and accurately, please enter the name, company name, telephone number and email of the person who filled out this form.

Name: Compa	pany Name:

Telephone:	Email:

Send transfer notification form to:	Alternatively for further enquiries:
Colorcoat Connection® helpline, Tata Steel UK Limited General Office, Shotton Works, Deeside, Flintshire, CH5 2NH	T: +44 (0) 1244 892434 Email: colorcoat.connection@tatasteeleurope.com W: www.colorcoat-online.com





# **Confidex® Photovoltaic (PV) Addendum used with PV frame** modules

This document is an addendum to and must be read in conjunction with the Confidex® Guarantee by Tata Steel

Confidex® Guarantee No. 56959	PV Addendum Issued Jun 20, 2022
Confidex® Guarantee No. 56959	PV Addendum Issued Jun 20, 2022

This addendum forms part of the Confidex® Guarantee and provides the additional terms on which the Confidex® Guarantee covers Colorcoat HPS200 Ultra® and 3 layer Colorcoat Prisma® Solid, Metallic and Matt colours launched on 1st October 2017 used on a roof or wall that has a PV installation. Owing to the potentially more aggressive environment created beneath / behind / adjacent to the PV array, additional terms and conditions are required to mitigate the increased risks of corrosion and degradation of the Colorcoat HPS200 Ultra® and Colorcoat Prisma® due to reduced natural wash down.

The inclusion of PV installations on a roof or wall is likely to result in unequal colour fade between those areas of the roof exposed to sunlight and natural weathering and those areas of the roof or wall which are shaded by the PV array. Such differential fading is normal and to be expected.

If a replacement Confidex® Guarantee incorporating this addendum is issued in respect of a retro-fit PV installation on a Colorcoat HPS200 Ultra® or Colorcoat Prisma® roof or wall then the replacement guarantee will be valid for the unexpired period of the original guarantee.

#### Terms and Conditions

- 1. The Guarantee applies to Colorcoat HPS200 Ultra® and Colorcoat Prisma® Solid, Metallic and Matt colours when used on a roof or wall on to which PV panels are mounted on a suitable framework supported above and fixed indirectly to the cladding sheets / panels. The guarantee does not apply to Colorcoat HPS200 Ultra® or Colorcoat Prisma® onto which a PV system is directly bonded. The Guarantee does not apply to roofs or walls to which PV is installed if the external cladding sheets/panels are not using Colorcoat HPS200 Ultra® or Colorcoat Prisma®.
- 2. The PV array must be installed such that effective cleaning and maintenance can be undertaken, including any future repair or maintenance which might be required under the Guarantee. Safe access and roof safety systems must be considered and the building Health and Safety file must include details of the design considerations and risk control measures to allow inspection, cleaning and construction work on the building at any time. Specifically, the design of the array should give adequate regard to the need to clean underneath the PV units to remove any build-up of general contamination and debris, which would invalidate the guarantee.
- 3. In the unlikely event of a claim arising due to failure of any areas of cladding beneath or adjacent to the PV array, it will be solely the responsibility of the building owner to provide safe and adequate access to allow Tata Steel to investigate and instigate remedial measures as deemed necessary by Tata Steel. In any case, Tata Steel will not be responsible for removing / replacing PV panels, their mounting brackets / framework or cabling to facilitate repair or replacement of cladding sheets or panels.
- 4. Areas of cladding affected by the PV array should not be considered "maintenance free to maintain the validity of the Confidex® Guarantee" because they are more likely to accumulate debris and dirt and are less exposed to rainfall. Accordingly, roofing or walls covered by PV arrays must be regularly cleaned and accurate records of cleaning must be retained for future reference. The frequency of maintenance / cleaning operations should be commensurate with local environmental conditions. Particularly harsh environments including (but not limited to) heavy industrial exposure, locations subject to salt deposition and areas affected by leaf litter will inevitably require more rigorous and frequent attention to ensure the ongoing validity of the guarantee. Cleaning and maintenance should be carried out in accordance with Tata Steel's Inspection and Maintenance brochure which forms an integral part of this guarantee. The guide can be downloaded from www.colorcoat-online.com
- 5. The Guarantee does not apply to failure or damage caused by or due to any alteration to the Colorcoat HPS200 Ultra® or Colorcoat Prisma® product caused by the PV array installation including (but not limited to) perforations for mounting brackets, additional fasteners, cabling penetrations and associated sealants.

#### **Technical enquiries**

Colorcoat Connection® helpline

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# **Extended warranty for SFS Horizontal Fall Protection System**

In addition to the warranty for the goods provided in condition 5.1 (Standard Warranty) of the Supplier's Terms and Conditions of Sale (Conditions), the Supplier has agreed to provide to the Customer identified below an extended warranty solely in relation to the Goods referenced in the particular order identified and on the terms and for the additional period of time specified below (Additional Warranty Cover).

Installation Company and SFS order number	: Unique Safety Systems Ltd	704108389
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SFS Fall Protection system type	: Domed load modules with rivet fix base plates to CA TwinTherm Roof System
Installation address	: Unit 1, Calder Park, Wakefield, WF2 7BJ
Building Owner	: British Airways Pensions Trustee Ltd
Period of Additional Warranty cover	: 24 years
With effect from	: 21 <sup>st</sup> February 2023

This extended warranty is incorporated into the Specification, and therefore the Conditions (and unless specified otherwise any definitions used in the Conditions shall have the same meaning in this extended warranty), in relation to any Orders to be used at the above specified installation address on the following terms:

1.1 Subject to condition 1.2, if:

- (a) The Customer gives notice in writing to the Supplier during the period of Additional Warranty Cover within 30 days of discovery that some or all of the Goods do not comply with the Standard Warranty (or would not have complied with the Standard Warranty had it applied for the period of Additional Warranty Cover); and
- (b) the Supplier is given a reasonable opportunity of examining such Goods at the installation address at which the Goods have been in use;

the Supplier shall, replace any goods and repair any damage which in the Supplier's reasonable opinion, was directly attributable to Goods which do not comply to the Standard warranty (or would not have complied had the Standard warranty been in place during the period of Additional Warranty Cover as the case may be).

- 1.2 In addition to being subject to the same limitations as the Standard Warranty and all other parts of the Conditions, the Supplier shall not be liable for the replacement of any goods and the repair to any damage in relation to the goods as set out in condition 1.1 if any of the following events occurred where the damage arose:
  - (a) due to damage to the Goods resulting from chemically active materials being present in the application build-up.
  - (b) due to the goods not being used in the correct applications, or systems that fall outside the Supplier's recommended design parameters, in accordance with the Supplier's written instructions.
  - (c) due to the goods not being fixed in accordance with the Supplier's written instructions.

- (d) as a result of deterioration of the associated materials, including sheets, purlins, spacer systems and roof lights which may affect the mechanical and structural performance.
- (e) as a result of the annual inspection and recertification of the goods not being carried out by a competent person.
- (f) as a result of the Customer altering or attempting to repair the Goods without the written consent of the Supplier.

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Andrew Wall
On behalf of SFS Group Fastening Technology Ltd

27<sup>th</sup> June 2022 Date



### Limited warranty

This limited warranty declaration is in regard to SFS Horizontal Fall Protection Systems in A2 / AISI304 grade hereafter referred to as "the Product".

Product identification example:

- SOTER II High load metal roof module, code FP-A-HLA with
- SOTER II Multi hole metal roof base plate, code FP-BP-MH-RIV

SFS warrants to the purchaser of the Product that the Product shall be free from defects in material and workmanship at the time of sale and in addition to the legal liability for material defects will not structurally fail if properly used and installed and adequately inspected and maintained in below described applications.

### **Period of Warranty**

The period of warranty is **24 years** and starts on the 12 month anniversary of date of purchase by the direct purchaser.

#### Warranty terms

This warranty is limited to either the spare parts or replacement, at SFS's sole option, of any defective product. Spare parts or replacement will only be delivered for the benefit of the direct purchaser of the Product.

SFS shall not, in any event, be liable for the cost of any labour expended on any such remedial activity or for any special, direct, indirect, consequential or incidental damages (including but not limited to loss of business or lost profit) to anyone.

For warranty claims the purchaser must prove that the reason for the claim is exclusively the result of a defective Product and that the possible applications are respected as well as that the claim exclusions mentioned in this limited warranty declaration are not applicable. A warranty claim can only be confirmed upon presentation of the defective Product and the SFS invoice. The purchaser has to inform SFS within 30 days after discovery of such claim.

The purchaser must provide SFS with uninhibited access to the construction site to make inspections or perform any necessary remedial activity.

### Application and exclusions

Note that professional installation by an expert is required. It must be ensured that the use of SFS products and other products is suitable for the application and installation environment.

This Limited Warranty Declaration does only apply if the application is one of the following:

- fastening on metal sheets and members on the building envelope into steel or concrete subconstructions
- fastening on PVC or bituminous membranes of flat roofs

Additionally, the following conditions must be respected:

for application environment categories C1-C3 according to the EN ISO 12944-2

## Application specific warranty exclusions

This warranty does not apply:

- for fastenings in building locations at distances closer than 1 km from sea
- for fastenings at an atmosphere that has a chloride level of 15  $\mu$ g/m<sup>3</sup> or higher
- for damages caused by an exposure to highly aggressive chemical conditions or chlorides in an environment where the Product is not suited for
- for damages caused by electro chemical corrosion due to interaction between the Product, system components and incompatible metals, metal alloys or chemically active materials being present in the application build-up
- for damages as a result of deterioration of the associated materials, including sheets, membranes, purlins, spacer systems and roof lights which may affect the mechanical and structural performance
- for damages as a result of the annual inspections and recertification of the Product not being carried out by a competent person
- for any discoloration or surface corrosion of the Product that results aesthetic impairment

## General warranty exclusions

This warranty does not apply if the Product is improperly installed, assembled or repaired, incorrectly applied, abused, altered or otherwise misused or damaged, including, but not limited to:

- faulty or negligent treatment
- installation that does not comply with the general requirements and application guidelines (instructions) or is in disagreement with technical specifications (e.g. excess of specified design parameters)
- failure to perform ANNUAL inspection AND RECERTIFICATION BY QUALIFIED PERSON to verify the continuous functional capability of the Product and/or system
- modifications, changes and self-repairs
- improper use with chemical and physical effects on the material surface or material structure (e.g. damage caused by sharp objects or abrasion during installation)
- failure resulting from change of use or processes within the building and / or the immediate environment if this results in an influence on the Product
- use of third-party parts (e.g. non-SFS fasteners or non-SFS specified parts)
- damages due to force majeure including but not limited to earthquakes, storms, lightning, failure of drainage systems, falling objects, fire, civil and military unrest, acts of war or nuclear radiation or fallout
- damages due to external forces including but not limited to vandalism, instable substructure, storage, job site handling, transit or caused by excessive roof traffic.

## Disclaimer

To the extent allowed by local law, except for the warranties set forth above, SFS makes no representations or warranties of any kind whatsoever, express or implied, including, without limitation, warranties of merchantability, non-infringement and fitness for a particular purpose, concerning the Product. All other guarantees, warranties, conditions and representations, either express or implied, whether arising out of any statute, law, commercial usage or otherwise, are hereby excluded.

While SFS and its representatives may, from time to time, offer recommendations and advice with respect to the use of the Product, it is understood that any such recommendations and advice are not warranties by SFS and the purchaser will act upon any such recommendations and advice at the purchaser's sole risk.

## Validity of General Terms and Conditions

The Limited Warranty Declaration contained herein supersedes the warranty provision of the SFS General Terms and Conditions of Sale and Delivery. All other provisions of the SFS General Terms and Conditions of Sale and Delivery apply.



**Cleaning and Maintenance Regimes** 





# **Cleaning and Maintenance Regimes**

This maintenance schedule for P21-024 Calder Park to be followed from PC date (30/08/2022) year on year to ensure all plant and equipment is kept within warranty.

Please keep a log of these inspections so that records can be checked should an issue arise.

## Code; ✓ Blue – Recommended ✓ Red – To Maintain Warranty

ltem	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
CA Roof & Wall Cladding							✓			Check the surface of the sheets have been washed by rain action on the coating surface. Heavy deposits of dirt or mould should be noted. Check sheets for damage to the coated surface or mechanical damage to the structure of the sheet. Check sheets for corrosion to the edges of the sheet.
CA Rooflights							✓			Check the surface of the sheets have been washed by rain action on the surface. Heavy deposits of dirt or mould should be noted. Check sheets for damage to the surface or damage to the structure of the sheet.
CA Gutters					~		✓			Ensure all detritus from the gutter and any blocked outlets is bagged and removed from the gutters. Check integrity of gutter joint for rips and gouges Check integrity of gutter coating for scratches and gouges


Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
										The system should be inspected for damage or looseness to anchorages, corrosion, cable damage, evidence of a previous fall e.g. slack cable, excessively loose cable
Mansafe System							✓			Before use, ensure that: The locking mechanism (where applicable) operates freely. Any personal protective equipment that has arrested a fall should not be returned to storage without being identified and reported. Such equipment shall be returned to the Installer Company. During the course of inspection/maintenance checks, all personal protective equipment should be made available to the Installed by Site Management



#### **Residual Hazards**

Persons undertaking any cleaning, maintenance, inspection or alteration should establish a safe method of working and assess any associated risks to themselves or others who may be affected by their actions. All information should be checked with the manufacturers or other competent specialists.

#### **Access External Areas**

All access arrangements must take into account the traffic /pedestrian movement past and around the building and suitable fixed barriers, cones, bunting, signs etc. must be erected to prevent such traffic colliding with any access equipment or persons or any persons being struck by the access equipment or any tools or equipment that may fall from it. The elevations of the building do not exceed the normal acceptable height for the safe use of ladders for work not requiring the use of both hands, and work that is prolonged in nature. Work requiring the use of both hands, and work that is prolonged in nature should be carried out from an approved access scaffold / tower.

#### Procedures

As the actual working environment is beyond the control of this document it is not possible to specify actual timescales for maintenance in all cases. The occupier must carry out suitable assessments to establish maintenance regimes appropriate to the working environment. Any inspection or maintenance period stated should be taken as a maximum and more frequent inspections and regular action may be necessary in certain circumstances.

The Specialist Contractors & Suppliers have provided Operations & Maintenance Manuals.

All procedures should include suitable risk assessment and resolution of safe working method statement.

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ROOFING & CLADDING

## Maintenance of CA Roof & Wall Cladding

#### **Summary Overview of Inspection Frequency Requirement**

Inspection and maintenance are mandatory requirements of guarantees available for materials supplied for the building envelope by CA Group. Too often roofs and gutters are neglected which can only lead to premature degradation of the system.

The following is a summary overview of the requirements to inspect and maintain the materials incorporated within the building envelope, further detailed clarification of the actions required are given within the body of this document.

#### Roof and Wall Cladding including ACM

The CA Group roof and wall cladding systems guarantee inspections to be carried out as follows;

- Building Handover
- 12 months after building handover
- 48 months from building handover
- Following the completion of this inspection the frequency of future inspections (typically 3 years / maximum 5 years) should be established for the remainder of the building life

Inspection and maintenance requirements stated are a specific requirement of the CA Group Limited guarantee, which are based on a competent person's assessment of deterioration of the system(s) and not that of the Confidex Guarantee for external coatings. System specific maintenance procedures are outlined within the product guarantee documentation.

#### **Polyester Powder Coated Items**

Details of inspectorate, inspection, findings, repair and maintenance work undertaken must be recorded as described in product guarantee documentation. The material should be cleaned at regular intervals of not more than three months.

#### Inspections

We recommend all inspections and any work undertaken on buildings are only carried out by competent persons trained for such purpose and that adequate and appropriate safe access is provided at all times. Safety precautions must be taken for the whole duration of inspections and works. HSG 33 'Health & Safety in Roofwork', available from the HSE, provides detailed advice in this subject.

#### Maintenance

If for any reason it is necessary to remove any external roof sheets Therma-lights and internal lining, the work should always be undertaken by competent persons.

If in doubt, advice should be sought from CA Group as to the method of proper removal and replacement of the components to ensure the integrity of the system and any system guarantee applicable.

When using cleaning, maintenance and repair products noted throughout the system guarantee appendices. In the interests of personal safety, health and hygiene, product manufacturers' advice and instructions on the use of their products must be strictly followed.

When washing or cleaning is required, only use a hose (with normal tap pressure, i.e. up to 80psi), at no point should pressure washers be used as this will cause damage due to the water pressure being delivered which could be in excess of 2,000psi.

#### Safety

The summary of routine maintenance advice (within the inspection and maintenance requirements for the systems) makes no recommendations in respect of site safety requirements to access and traverse the roof safely during maintenance inspections and working procedures. Competent persons / bodies undertaking such maintenance inspections and working procedures should prepare proper and adequate risk assessments and method statements for each maintenance inspection and working procedure. Further information giving clarification on traversing the roofing systems can be found in TIP-106 - Walkable, Non-Walkable & Walking on Roof Cladding.

#### **General Guidance on Inspection**

CA Group recommend all inspections and any work undertaken on buildings are only carried out by competent persons trained for such purpose and that adequate and appropriate safe access is provided at all times, for further information refer to Advisory Committee for Roof safety, ACR[CP]005, 'Guidance note for competence and general fitness requirements to work on roofs' covering inspection, new build, maintenance, repair and refurbishment work.

Safety precautions must be taken for the entire duration of any inspections and work.

Advice on this subject is detailed in Health & Safety Guide 33, 'Health & Safety in Roof work' and Advisory Committee for Roof safety ACR[CP]001 'Recommended Practice for Work on Profiled Sheeted Roofs. These documents are available from the HSE and ACR websites.

When using cleaning, maintenance and repair products, noted throughout the Appendices of the System Guarantee, in the interests of personal safety, health & hygiene, product manufacturers'/suppliers' advice and instructions on the use of their products/supplies must be strictly followed.

#### **Inspection of the System**

Inspections based upon good practice must be carried out throughout the life of the building, by competent persons. Inspections are undertaken to highlight for instance any changes in the condition of the system, particularly as you approach the end of the period of guarantee, which is the length of time before a building owner needs to consider whether to repaint or refurbish.

Roof and wall cladding system inspections should be conducted during and after the cladding is installed by the cladding contractor, at building handover, 12 months after building handover and 48 months from building handover. Following the completion of this inspection the frequency of future inspections (typically 3 years / maximum 5 years) should be established for the remainder of the building life, but also 12 months after building handover, then typically every three years to maximum every five years, depending upon the competent person(s) assessment of deterioration to the system(s), since the previous inspection. Whereas gutter system inspections should be carried out at building handover and 12 months afterward. Following the completion of this inspection the frequency of future inspections and maintenance (within a 12 month period) should be established for the remainder of the building life, would be conducted on a maximum 12 monthly basis. Additionally Powder Coated items should have Inspection and maintenance carried out at building handover and every 3 months following building handover.

The assessment should include any evidence of change to the local environment, which could cause premature degradation of the system(s). In addition, we recommend buildings, particularly roofs, are inspected following periods of severe inclement weather e.g. high winds, gales, etc.

Within 1 month of discovery of any damage to the system(s), effective and appropriate remedial work must be implemented and completed. A written record must be kept in respect of all inspections, maintenance, cleaning and repair work stating the following information (refer to Inspection along with the Maintenance Record Template for Building Envelope):

- 1. Name and details of competent person/inspector/inspection body
- 2. Date of inspection
- 3. Inspection report findings
- 4. Details of all cleaning replacement, repair and maintenance work
- 5. Date item 4 was undertaken
- 6. Name and details of competent persons/bodies undertaking item 4
- 7. Competent person and Beneficiary signature for item 6

Prior to conducting any inspections, particularly on roofs, ensure proper and adequate method statements and risk assessments are in place and that access is suitable and any horizontal life line systems have been checked and the test certification has been validated within the last twelve months, i.e. are approved for use. Prior to accessing the roof to undertake the inspection please read CABP Technical Information Paper TIP-106 'Walkable, Non-Walkable & Walking on Roof Cladding', which states; do not walk on rooflights, flashings, etc.

#### Maintenance

#### Roof, wall cladding & interface junctions

A written record must be kept in respect of all cleaning, replacement, repair and maintenance work stating the date and by whom the work was undertaken: refer to Inspection along with the Maintenance Record Template for Building Envelope. Any actions opposed to the recommendations noted, except as agreed, in writing, by The Company, will invalidate The Guarantee.

#### Washing/Cleaning

Rainfall alone is often sufficient to keep exterior surfaces looking clean and bright. However, to achieve maximum life from the product, it is important that accumulations of dirt and debris which are not removed by normal rain washing are removed regularly by cleaning. This reduces the risk of 'wet poultice' corrosion, i.e. water retention due to debris.

Washing may be carried out with a hose and a soft bristle brush, using fresh water. In areas where heavy industrial deposits dull the surface, a solution of fresh water and good quality household detergent or proprietary cleaner may be applied to ensure thorough cleaning. For household detergents, use a maximum 10% solution; for proprietary cleaners, follow the manufacturer's recommendations. A thorough rinse with clean water must follow the wash. (Note: only use a household type hose, with normal tap pressure, (i.e.  $\leq$ 80psi). At no point should pressure washers be used as water pressure being delivered could be  $\geq$ 2,000psi, which may result in damage to coatings and or components installed).

Proprietary cleaners are available from the companies listed in Maintenance Recommendations, under the heading Cleaners. Caution: when cleaning, the following points should be noted:

1. Stronger concentrations of cleaners than those recommended can damage coating surfaces.

2. Rinse thoroughly to remove all detergents after cleaning.

3. Organic solvents and abrasive cleaners should be avoided in cleaning any coated surface. Caulking components, tar and similar substances may be removed with mineral spirits, but wash the surfaces thoroughly afterwards.

4. Always clean coated surfaces from top to bottom and rinse immediately and thoroughly with fresh, clean water.

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5. Over-cleaning or scrubbing can do more harm than good.

#### **Mould/Fungal Growth**

Some types of local environment are particularly conducive to mould growth, i.e. areas of wet, dark, wooded surroundings or low-lying marshland. In these areas, mould will grow, even on inert materials such as glass.

Mould/fungal growth can be removed by treatment with a basic solution of the following ingredients, by weight, which should be available from local chemical suppliers. Before using the first three of these ingredients, you should refer to the manufacturers' health and safety information.

Good quality household detergent or proprietary cleaner - 0.50 Trisodium phosphate - 3.00 5% sodium hypochlorite solution - 25.00 Fresh water - 71.50 100.00

Before applying this mixture, wash down first, as explained under Washing (above), then apply the mixture to all surfaces by low-pressure spray or brush. All surfaces must then be rinsed with cold water within twenty-four hours.

#### Local Damage Touch-Up (Metal Sheets)

During inspections, you may find that the coating has suffered some damage. It is better not to treat the surface of the product if it has been only slightly scuffed.

If it is scratched more deeply, say, down to the substrate, the damage can be repaired easily by applying standard touch-up paint. It is important to ensure that the applied paint is no wider than the original scratch. To achieve this, the paint should be applied with an artist or child's medium to fine paintbrush.

Touch-up paints are, of necessity, air-drying; over the years they will change colour differently from the original stoved coating. For this reason, it is good practice to keep the applied area as small as possible.

Should the system have suffered impact or structural damage please contact The Company for further advice. Recommended touch-up systems are available from the suppliers listed in Maintenance Recommendations; under the heading Touch-up paints.

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#### Fasteners/Fixings

Ideally these should be left undisturbed please contact The Company for advice.

#### **Treatment of Edge Corrosion**

Corrosion at the edges of the profiled steel cladding can be rectified and should be carried out by a specialist contractor, therefore, if edge corrosion is observed contact The Company prior to any remedial work being undertaken.

Materials are available from the recommended suppliers listed under the heading Refurbishment and Cut Edge Treatment suppliers. Reparation contractors are listed under the heading Repaint and Cut Edge Treatment contractors.

#### Graffiti

Graffiti can be removed with specialist cleaners, and overpaint systems are available. These fall into three categories:

· Specialist graffiti products such as solvents and gels

 $\cdot$  Waxy sacrificial anti-graffiti treatments can be post applied to pre-finished steel. These can be washed off, removing graffiti and the treatment at the same time. Re application of the treatment would then be required.

• Anti-graffiti coatings can also be applied. These render any graffiti easy clean off, using hot water or cleaning solutions and do not need re-application after the graffiti is removed.

#### **Over-painting**

#### **External Sheets**

Surface preparation and over-painting of cladding should be carried out by specialist contractors using approved maintenance paints. Recommended paints are available from the supplier listed under the heading Over-painting supplies. Reparation contractors, contact The Company.

#### **Bright White Lining Enamel**

Bright white lining enamel has been designed for easy over-painting. When over-painting is deemed necessary, the panels or trays should be cleaned as explained under Washing (above) and painted with brush, roller or spray using a standard household undercoat and finish system. Cellulose-based paints should not be used.

#### Cleaning, touch-up & over-painting – Pre coated metal sheets

This section lists suppliers of products and services for maintaining roofing and walling. It is important that you read all other parts of this document before you use this section.

# **IRC CAROCELLE** ROOFING & CLADDING

### **Maintenance of CA Rooflights**

#### Rooflights

This inspection advice is based upon good practice. It must be carried out throughout the life of the building.

All items should be checked at building handover, 12 months after building handover and 48 months from building handover, then typically every three years to maximum every five years depending upon the competent person(s) assessment of deterioration to the system(s), since the previous inspection. Any actions opposed to the recommendations noted, except as agreed, in writing, by The Company, will invalidate The Guarantee.

#### Therma-light (GRP) Weather Sheet Inspection, Maintenance and Protection

1. We recommend inspection be carried out at the same time as the metal weathering sheets and details of inspection – findings and maintenance work undertaken must be recorded as Inspection along with the Maintenance Record Template for Building Envelope. In addition we recommend that Therma-lights be inspected following periods of severe inclement weather e.g. high winds and gales.

2. Debris - Any build-up of debris, including any debris remaining after the Therma-light has been fixed - such as drilling swarf, loose fixings and rivets - should be carefully cleared from the Therma-light, using a soft brush to avoid scratching the surface of the GRP.

3. Dirt Retention - Areas retaining dirt should be cleared away with a soft brush or cloth and cleaned with a mild household detergent solution 10% in water to preserve the Therma-light. Rinse off with clean water.

4. Moss/Mould Growth - Any growth of moss on or around the Therma-light should be carefully removed and the Therma-light cleaned with a mild household detergent solution 10% in water and a soft cloth. Rinse off with clean water.

5. Local Damage - replace depending on severity, if in doubt contact the company, alternatively use the following guidelines, which is an extract from Technical Information Paper TIP-104 'GRP Thermalight Rooflight Damage';

#### Bruises

GRP Therma-light with an area of bruising (where the protective film has not been penetrated) no greater than a 50p piece (or a 30mm rooflight fixing washer) will remain serviceable and no further remedial action is required unless unsightly. For aesthetic reasons the client may insist on the Therma-light in question being replaced.

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If the area of damage is completely white (severe bruising) and is less than 30mm diameter, then the Therma-light must be replaced.

Any Therma-light with an area of bruising greater than a 30mm diameter must be removed and replaced to maintain structural integrity, longevity and Non-Fragility of the assembly.

#### Punctures

If the surface of the GRP Therma-light is slightly grazed but still hard then the rooflight can remain, with no detrimental effect.

If a Therma-light is punctured or if the centre of the impact feels 'soft' (where the resin has been broken away from the glass fibres) or if the surface protection layer has been ruptured, then the Therma-light must be replaced, however small the area of damage.

#### Side Lap Damage

Often caused during construction due to rope holding down the packs of rooflights, or indeed individual rooflights until such time they are installed. This damage is generally outside the critical zones for both Non-Fragility and durability, whilst unsightly the rooflights can be left insitu.

Additional side lap stitching screws may be required either side to ensure Non-Fragility is not compromised.

6. Conditions of fixings - During inspections, care should be taken to check the condition of fixings including tightness and to replace or tighten them as necessary. Contact The Company for proper replacement procedure.

7. Should the Therma-lights suffer any structural or impact damage whatsoever, they must be replaced. Contact The Company for further advice if in doubt.

#### **Manufacturer's Recommendations**

#### Maintenance

Maintenance involves cleaning and inspection after one year, then subsequently at an appropriate frequency (depending on results of previous inspections and environmental conditions), typically 2-3 years but more frequently if necessary, and never exceeding 5 years.

The general condition of GRP rooflights, and the security of fasteners and sealants should be checked periodically as part of the overall maintenance program for the structure into which they are incorporated. If a rooflight is found to be damaged it must be replaced in accordance with the original specification.

#### Cleaning

- 1. Rinse first with lukewarm water to soften dirt.
- 2. Clean with copious amounts of warm water, mild detergent and a soft cloth or sponge.
- 3. Rinse with clean lukewarm water.
- 4. Dry off with a soft cloth.

Do not scrub with brushes or sharp instruments as these will mark the surface. Never use solvents or alkaline cleaners or thinners. It is advisable to test the suitability of any cleaner on a sample piece of GRP first.

Incorrect cleaning which in any way damages the sheet automatically renders void all warranties.

## **Recommendations for the Maintenance of Premier Caskade Gutter System**

#### Gutters

CA Group recommends that the gutter inspection should be carried out in conjunction with the main building envelope inspections. Details of inspectorate, inspection, findings, repair and maintenance work undertaken must be recorded as described in product guarantee documentation. If maintenance is not undertaken on a regular basis you may encounter problems such as those indicated in the Images contained in this document, which impact on the drainage of the roof leading to water entering the building;

CA Group gutters require more frequent inspections than the roof and wall cladding systems, as follows;

- Building Handover
- 12 months after building handover

• Following the completion of this inspection the frequency of future inspections and maintenance (within a 12 month period) should be established for the remainder of the building life.

#### Gutters

#### Gravity drainage system

Ensure all pipework is inspected in accordance with BS EN 12056-3, Section NE.5.1 states; "Gutters, rainwater pipes, outlets and gratings should be inspected and thoroughly cleaned once a year, or more often if the building is in or near to an industrial area or is near trees or may be subjected to extremes of temperature."

#### Siphonic drainage system

Ensure the system (outlets, tailpipes, horizontal carrier pipes, etc.) is inspected in accordance with BS 8490: 2007, Section 12.1 states; "During the first year of operation, it is recommended that inspection, etc. should be carried out four times a year in order to establish an appropriate maintenance regime. The regime should take account of autumn leaf fall and the fact that intense rainfall tends to occur during summer storms."

When repairing damage to the membrane gutter coating, all repair patches should be fully welded with a minimum weld of 50mm in all directions from any damage i.e. if damage is 2mm wide by 50mm long then the repair patch is required to be a minimum of 102mm wide by 150mm long. When cleaning out gutters any build-up of detritus should be collected using non-metallic tools, i.e. soft bristled brushes / brooms, PVC shovels (preferably snow shovels), etc. and ensure all detritus is bagged and removed from gutters and roof area.

#### Maintenance

1. General coating and galvanised material damage – repair as Gutter repair (Membrane).

2. Debris – any build-up of debris including debris remaining after the roof installation e.g. drilling swarf, loose fixings, and rivets – should be cleared from the gutters taking care not to scratch/damage the protective surface.

3. Dirt – areas of dirt compaction and any other vegetable matter i.e. soil, twigs, weeds, should be carefully removed and contaminated areas hosed down and cleaned with fresh water.

4. Outlets – check outlets are clear and re-protect welds if necessary as Gutter repair (Membrane).

#### **Gutter repair (Membrane)**

It is a mandatory requirement that the gutters are inspected after unloading at site and after gutter installation is completed. All mechanical damage etc. occurring during gutter transport, unloading and installation must be repaired immediately before or after installation (whichever is practical). The recommended method of repair is as follows:

1. Sweep gutters clean of debris.

2. In the area of damage, dry surface and remove any loose coating particles by gently scraping.

3. Remove any zinc salts or rust on exposed galvanised surface by abrasive cleaning using a nonmetallic media.

4. Supplies of membrane patches and seam sealer can be obtained from 'The Company'.

5. Wash damaged area with water and washing-up liquid, rinse off and dry thoroughly before commencing any repair work.

6. Repair scratches in membrane with seam sealer (refer to gutter installation guide).

7. Where the membrane is badly scuffed, torn, ripped or damaged exposing the galvanised metal, heat weld a membrane patch to an area covering plus 50 mm all around the damaged section (refer to gutter installation guide). Apply seam sealer to the welded edges of the patch.

8. If the white paint coating to the inner gutter lining enamel is scratched or damaged, clean as (3) and repair by painting in line with recommendations.

If in doubt about any aspect of gutter inspection, maintenance or repair, contact 'The Company' for advice.

#### What to check for Check for:

**Blocked gutters** - Blockage may cause overflow into a building. **Action:** Clean and wash out any blockage.

**Build-up of debris** - A build-up can cause wet poultice corrosion. **Action:** Remove debris and wash the area as outlined in washing below.

**Dirt retention in areas of cladding not washed naturally by rainwater, e.g. overhangs** This affects the appearance of the building and could, if left, cause breakdown of the coating. **Action:** Wash down, see washing.

**Mould growth** -This rarely occurs but can arise in extreme conditions and affect the appearance. **Action:** Wash down and treat as described under Mould growth.

#### Local damage\*

Breakthrough of protective paint coating could cause corrosion of steel substrate. Action: Assess extend and type of damage.

Action may involve:

- 1. Touch-up of affected area. See Touch-up.
- 2. Over-paint of affected area. See Over-painting.
- 3. Replacement of damaged sheets. Contact the profiler who supplied the sheets.

#### Drilling swarf, rivet stems and other fixing debris\*

These can rust and cause staining. **Action:** Remove debris.

**Condition of fasteners\*** - Faulty or inappropriate fasteners can cause leakage, or rust staining on the surface of the cladding, or both. **Action:** Replace faulty fasteners and any missing caps.

**Corrosion of cut edges** - Corrosion of cut edges at sheet overlaps and at overhangs can, if neglected, spread up the sheet.

Action: Treat as described under Treatment of edge corrosion.

**Condition of colour coating** - Peeling of coating, uneven fading, blistering and cracking and local scratching are all signs of the need for repairs to the coating. **Action:** Follow the painting instructions of the recommended paint suppliers.

#### Washing

Rainfall alone is often sufficient to keep exterior surfaces looking clean and bright. However, to achieve maximum life from the CA Group product, it is important that accumulations of dirt and debris which are not removed by normal rain washing are removed regularly by cleaning. This reduces the risk of 'wet poultice' corrosion.

Areas of cladding that lie beneath overhanging building details, such as those beneath gutters, for example, are particularly susceptible to a build-up of dirt. Such accumulations may hold water and pollutants, which can lead to 'wet poultice' corrosion.

Washing may be carried out with a hose and a soft bristle brush, using fresh water. In areas where heavy industrial deposits dull the surface, a solution of fresh water and good quality household detergent of proprietary cleaner may be applied to ensure thorough cleaning. For household detergents, use a 10% solution; for proprietary cleaners, follow the manufacturer's recommendations. A thorough rinse with clean water must follow the wash.

Proprietary cleaners are available from the companies listed under the heading Cleaners.

#### Caution

When cleaning, the following points should be noted:

1. Stronger concentrations of cleaners than those recommended can damage coating surfaces.

2. Rinse thoroughly to remove all detergents after cleaning.

3. Organic solvents and abrasive cleaners should be avoided in cleaning any coated surface. Caulking components, tar and similar substances may be removed with mineral spirits but wash the surfaces thoroughly with fresh clean water.

4. Over-cleaning or scrubbing can do more harm than good.

#### Mould Growth

Some types of local environment are particularly conducive to mould growth, i.e. areas of wet, dark, wooded surroundings or low lying marshland. In these areas, mould will grow, even on inert materials such as glass.

Mould growth can be removed by treatment with a basis solution of the following ingredients, by weight, which should be available from local chemical suppliers. Before using the first three of these ingredients, you should refer to the manufacturers' health and safety information.

Good quality household detergent or proprietary cleaner - 0.5 Trisodium phosphate - 3 5% sodium hypochlorite solution - 25 Fresh water - 71.5 100

Before applying this mixture, wash down the coated surface first, as explained under Washing (above), then apply the mixture to all surfaces by low-pressure spray or brush. All surfaces must then be rinsed with cold water within twenty-four hours. Most CA Group coatings formulations have been specially developed to resist fungal growth; therefore, in most areas of the U.K. this should not arise.

#### Touch-up

During one of the inspections, you may find that surface coating has suffered some damage. It is better not to treat the surface of the CA Group product if it has been only slightly scuffed. If it is scratched more deeply, say, down to the substrate, the damage can be repaired easily by applying standard touch-up paint. It is important to ensure that the applied paint is no wider than the original scratch. To achieve this, the paint should be applied with an artist's or child's medium to fine paint brush. Touch-up paints are, of necessity, air drying; over the years they will change colour differently from the original stoved coating. For this reason, it is good practice to keep the applied area as small as possible.

Touch-up systems are available from the suppliers listed under the heading Touch-up paints.

#### **Treatment of Edge Corrosion**

Corrosion at the edges of the profiled steel cladding should be rectified as described below.

1. Cut and remove, or abrade, any loose organic coating back to a firm point

2. Remove all white and red rust by sand blasting BS 4232 second quality (Swedish Standard ST2) or by abrading to bright, firm metal, ensuring that the surface is not polished. Thoroughly clean and dry these surfaces before applying the specified materials which must be applied as directed by the recommended paint system manufacturer.

3. Coat the prepared areas with the relevant anti- corrosive primer recommended by the materials supplier.

4. When the first primer coat has dried, apply a further primer coating a neat bamd to the prepared areas so that the primer extends beyond the prepared area covering the original surface5. Apply a top coat to the dry, primed area. Materials are available from the suppliers listed in the separate appendix under the heading treatment of edge corrosion.

#### **Over-painting**

#### **External Sheets**

Surface preparation and over-painting of cladding should be carried out by specialist contractors using approved maintenance paints. The paints are available from the supplier listed under the heading Over-painting.

#### **Bright White Lining Enamel**

CA Group lining enamel has been designed for easy over-painting. When over-painting is deemed necessary, the panels or trays should be cleaned as explained under Washing (above) and painted with brush, roller or spray using a standard household undercoat and finish system. Cellulose-based paints should not be used.

#### Care

Colour coated metal sheets used on the roofs and facades of buildings are exposed to many kinds of pollution in the air. These together with water and increasing amounts of UV radiation affect the coatings. The effects are worst on those areas of the building where impurities are not washed away by rainwater. Some impurities may also cause internal stress in the coating and even cracking.

From the point of view of the durability of coated sheet the most detrimental are knocks and scratches, in which the impurities come into direct contact with zinc, which are easily soluble, as a result of which the zinc is rapidly consumed. In addition a number of the impurities absorb water, which keeps the damaged area wet longer and as a consequence rusting is active longer.

The effect of the impurities in the air is greatest when close to polluted industrial areas and in coastal areas. These are typically produced, e.g. from power stations burning fuels containing sulphur. Impurities stress the coatings and reduce their useful life, so the regular cleaning of wall and roof surfaces is an important part of the servicing and maintenance of coatings.

#### **Removal of Debris**

Rainwater is usually sufficient to keep colour coatings clean. Leaves from trees and other debris are not always washed away by the rainwater and so should be removed annually or more often if necessary. The roof valleys and rainwater system should also be cleaned at least annually.

JOZ This appendix lists suppliers of products and services for maintaining CA Group roofing and walling. It is important that you read the CA Group Inspection and Maintenance section before you use this appendix.

The information in this appendix is reviewed by us from time to time and may therefore change. You should consult CA Group to obtain the most recent information

#### Cleaners

See Washing in the Inspection and Maintenance section.

## **Recommendations for the Maintenance of the Safety Line System**

#### Inspection, Maintenance & Storage

All equipment should be inspected and re-certified at intervals not exceeding twelve months or as otherwise indicated on the individual component and only by persons authorised by Unique Safety Systems.

The system should be inspected for:

- Damage or looseness to anchorages
- Corrosion
- Cable Damage
- Evidence of a previous fall e.g. slack cable
- Excessively loose cable

If this inspection reveals defects, damage or unauthorised modification, inadequate maintenance or a fall arrest, this should be reported to Site Management. The equipment shall undergo corrective maintenance by Unique Safety Systems before being re-certified and returned to service.

During storage, all equipment use must be kept away from contaminants such as acids, alkalis, grit and oils.

Before use, ensure that:

- Locking mechanism (where applicable) operates freely.
- Any personal protective equipment that has arrested a fall should not be returned to storage without being identified and reported. Such equipment shall be returned to Installer Company.
- During the course of inspection / maintenance checks, all personal protective equipment should be made available to the Installers by Site Management.

There are no parts of this system that can be adjusted or maintained by any person other than Unique Safety or an authorised trained competent person.

In order to maintain compliance with the standards, to which system has been designed and installed, it must be subject to "Period Examination" at least once very twelve months. This examination must be carried-out as specified by BS365: 2004 by Unique Safety.

Should the system show any of the signs of a fall or other damage, it should be reported to Unique Safety and the system should not be used until it has been examined and re-certified.

Under no circumstances should the slack resulting from a fall be taken out by adjustment of the system.

## **Data Sheets**



## **Design Decisions**

Prior to quoting the system Craig Edwards (Unique Safety) and Wayne Sprason (IRC Carocelle) had a conversation regarding the project and it was agreed that the system was required to provide full access to all perimeter gutters on all roof areas (including the office and the hub roofs).

As there are 3 No. internal gutters on the main warehouse roof and 1 No on the office roof it was agreed that these could be potentially classed as safe zones if the users do not wander off from the central gutters.

To ensure safe access into the gutters and to maintain attachment before reaching the perimeter systems small access runs (approximately 10m long) were agreed and have been installed.

The system will provide safe access to a 2 metre radius of the system when used in conjunction with a standard length lanyard.

Any other areas of the roof which require future access (outside of the 2-metre zone) must be specifically risk assessed and a detailed safe system of work provided.

**CA Group Limited** Evenwood Industrial Estate Copeland Road Evenwood County Durham DL14 9SF

t. 01388 834 242 f. 01388 830 210 e. enquiries@cagroup.co.uk www.cagroup.co.uk

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Your Ref:

Date: 12<sup>th</sup> December 2019

SFS Group Fastening Technology Ltd. Division Construction 153 Kirkstall Road Leeds LS4 2AT

For the attention of Mr Neil Sivyer

Dear Neil,

Following the successful conclusion of roof system tests undertaken by SFS in accordance with BS EN 795:2012 and ACR[M]002 'Testing of Roof Anchors on Roof Systems (being Part 2 of the Magenta Book)' we confirm the Soter II horizontal life line system is approved for use on CA Group's;

- Twin-Therm<sup>®</sup> roof cladding system incorporating the MatriX spacer system and CA 32 1000R 0.7mm thick steel coated external weather sheet, and
- CA 32 1000R 0.7mm thick coated steel single skin canopies

Please note, this approval does not replace or negate any legislative obligations as defined in Construction Design and Management (CDM) regulations or any other statutory requirements.

Should you wish to discuss further, do not hesitate to contact us.

Yours faithfully,

Mark Wiper Technical Engineering Manager

Tel: 01388 830623 Mob: 07816 298981 E-mail: <u>mark.wiper@cagroup.co.uk</u>



**By E-mail Only** 



## Approval checklist

Manufacturer:	SFS Group, Fastening Technology
Product:	Soter II - HL system
CA Group Roofing System:	Twin Therm <sup>®</sup> Roof cladding system – (up to 300mm deep system build up)

Corporate								
QES Policy	June 2016	<mark>Comp</mark>						
ISO 9001 certificate	Certificate 4418	<mark>Comp</mark>						
ISO 14001 certificate	Certificate 4418	<mark>Comp</mark>						
Supplier PL/PI insurance	GB00000237LI	<mark>Comp</mark>						
	Technical							
Technical specification - NBS or similar	N25 available for reference	<mark>Comp</mark>						
Declaration of conformity - CE Marking	Available for reference	<mark>Comp</mark>						
Installation manual	Soter HLL Installation manual v1.0	<mark>Comp</mark>						
User manual	Soter HLL user manual v1.0	<mark>Comp</mark>						
Robust detail - connection to roof	Available for reference	<mark>Comp</mark>						
	Testing							
Test report(s)	00000062 – 6 <sup>th</sup> Nov 2019	<mark>Comp</mark>						
	00000064 – 19 <sup>th</sup> Nov 2019	Comp						
Wa	Warranty / Guarantee							
25 year system guarantee	Available for reference	Comp						
12 month limited warranty	Available for reference	Comp						

MWyu

Mark Wiper Technical Engineering Manager

#### **UNIQUE SAFETY SYSTEMS**

Unit 4, Winster Grove Great Barr Birmingham, B44 9EG Tel: 0121 325 2600 Fax: 0121 325 2610

## **PURCHASE ORDER**

SFS Coldord Pc	ad			Order Number:	502/2816/ C7	50
Birstall Batley				Date:	February 1, 2	022
West Yorks WF17 9QD Tel: 01924-	shire - 472251	Fax 01	924-440237	Contract Number: Number of Pages:	C750 1	
ITEM	PART NUMBER	QTY	UOM	DESCRIPTION	UNIT COST	NETT AMOUNT
1	1520732	36	each	SOTER II DOME HIGH LOAD CAN		
2	1520733	65	each	SOTER II DOME INTERMEDIATE CAN		
3	1665991	101	each	MULTI-USE BASEPLATE RIVET		
5	1642588	9	100 No.	100x6605-9-6W BULBTITE RIVET		
6	1501205	21	each	TENSIONER & INDICATOR		
7	1520785	11	each	TOGGLE FORK END		
8	1501210	72	each	INTERMEDIATE BRACKET		
9	1501222	4	each	SOLID 90 DEGREE CORNER		
10	1501253	795	metre	8mm 7x7 WIRE CABLE		
11	1501227	25	each	M10 FEMALE RING		
12	1501201	7	each	2 Hole Connector Plate M10/M12		
13	1501268	2	each	SLYDER TRAVELLING DEVICE		
					SUB TOTAL	£ -
					NEW TOTAL	£ -
					V.A.T.	£ -
					TOTAL DUE	£ -

Comments

Delivery Required to our office address Delivery Date TBC

**CEdwards** 

Craig Edwards

Signed on behalf of Unique Safety Systems

Unique Safety Systems is a Trading Division of Unique Envelope Façade Solutions Registered in England No 7758274

	UNIQUE	SAFET
		<b>UNIT</b> 4
		T: D 1
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SAFETY SYSTEMS UNIT 4 WINSTER GROVE GREAT BARR BIRMINGHAM B44 9EG T: 0121 325 2600 F: 0121 325 2610

IRC Carocelle Ltd Unit 12A Maybrook Industrial Estate Walsall Wood West Midlands WS8 7DG

## **DELIVERY NOTE**

## **ORDER ACKNOWLEDGEMENT**

**Delivery Address** 

Tungsten Properties Calder Park Wakefield WF2 7BJ

To supply the following items for the safety system as your order no. 2172/158

2 No Travelling Device 2 No. Full Body Harness (RGH2)

2 No. 1.8 metre shock absorbing twin Leg Lanyard (RGL3/1.8) Serial Nos. 8011, 8733 Serial Nos. 22-707223 (31/01/2022), 22-707182 (31/01/2022) Serial Nos. 22-715636 (14/02/2022), 72-715637 (14/02/2022)

# Please acknowledge receipt of the above goods and sign and return one copy for our records.

Signed	Date.	04.05.22
Please print name	•••••	
On behalf of		

Doc: UNIQUER58



























UNIQUE SAFETY SYSTEMS

Unique Safety Systems Unit 4 Winster Grove Great Barr Birmingham B44 9EG T 0121 325 2600 E: Info@UniqueSafety.co.uk

## **1**<sup>st</sup> Inspection Check Sheet – After Installation

For compliance with BS 7883:2019 as part of the project technical file a 1<sup>st</sup> Inspection report should be included to detail the results of the installation. This document details the 1<sup>st</sup> inspection findings.

PROJECT NAME: Wakefield CONTRACT NO. C750

CLIENT: IRC DATE: 4. S.22

ITEM			COMMENTS
HAVE THE SYSTEMS BEEN INSTALLED AS PER THE DRAWING (IF NOT DETAIL AMENDMENTS AND EXPLAIN REASONS IN COMMENTS?	YES	NO	
WHAT ARE THE EDGE DISTANCES OF THE SYSTEMS (WHERE ARE THESE DIMENSIONS FROM I.E. THE ROOF EDGE/GUTTER)?	2.34	From	alge of Sheets
HAVE ALL SYSTEMS BEEN CORRECTLY TAGGED WITH FALL RESTRAINT/FALL ARREST TAGS?	YES	NO	
HAVE SIGNS BEEN FITTED? DETAIL WHERE	YES	NO	No Specific access paint (Memp Access)
WHAT ARE THE MAXIMUM POST CENTRES OF THE SYSTEM?	114		
DOES THE TRAVELLING DEVICE PASS FREELY AROUND THE ENTIRE SYSTEM?	YES	NO	
ARE THE SYSTEMS CORRECTLY TENSIONED – THE INDICATOR DISKS MUST SPIN BUT THE SYSTEMS SHOULD NOT BE OVER TENSIONED?	YES	NO	
HAVE ALL END TERMINATIONS BEEN SWAGED WITH 5 CONTINUOUS BITES?	YES	NO	
HAVE ALL END TERMINATIONS BEEN PULL TESTED TO 15kN USING HYDRAJAWS CALLIBRATED TESTING EQUIPMENT (INCLUDING CABLE JOINERS)?	YES	NO	
ARE ALL MODULES TIGHTENED SUFFICIENTLY TO THE BASE PLATES?	YES	NO	
ARE ALL COMPONENTS SECURE AND TIGHTENED TO 30Nm?	YES	NO	

#### **RIVET POSTS**

ARE ALL POSTS SECURELY FIXED USING 8 NO. BULB-TITE RIVETS?	YES	NO	
ARE ALL RIVETS SEATED CORRECTLY?	YES	NO	
ARE ALL MANDRELS VISIBLE WITHIN THE BODIES OF THE RIVETS BUT NOT PROTRUDING?	YES	NO	

#### **CLAMPED POST**

ARE ALL POSTS SECURELY FIXED USING 4 NO. CLAMPS?	YES	NO	
IF FITTED TO EXTENSION BARS ARE THE POSTS SECURELY FITTED TO THE BARS USING 4 NO. BULB-TITE RIVETS?	YES	NO	
ARE ALL CLAMPS CORRETLY TORQUED (SOTER CLAMPS 14Nm, S5 CLAMPS 20Nm)?	YES	NO	
ARE ALL GRUB SCREWS TORQUED TO 15Nm?	YES	NO	

#### **SLEEVE & FASTENER POSTS**

METAL DECK WITH INSULATION			
HAVE ALL POSTS BEEN SECURELY	YES	NO	
FIXED USING 12 NO. BS FASTENERS			
WITH SLEEVES?			
PLY DECK WITH INSULATION			
HAVE ALL POSTS BEEN SECURELY	YES	NO	
FIXED USING 12 NO. LBS FASTENERS			
WITH SLEEVES?			
CONCRETE DECK WITH INSULATION			
HAVE ALL POSTS BEEN SECURELY	YES	NO	
FIXED USING 12 NO. ACS FASTENERS			
WITH SLEEVES?			

#### **TOGGLE POSTS**

HAVE ALL POSTS BEEN SECURELY FIXED USING 4 NO GRAVITY FIXINGS	YES	NO	
ARE ALL TOGGLES FIRMLY SECURED WITH NO MOVEMENT AND CORRECTLY ENGAGED WITH THE DECK	YES	NO	
ARE ALL TOGGLES TIGHT BUT NOT TIGHTENED BEYOND 15Nm	YES	NO	

#### **RESIN POSTS**
GENERAL			
HAVE ALL SURPLUS MATERIALS BEEN REMOVED FROM SITE AND DEBRIS	YES	NO	
CLEARED	1		
HAVE PHOTOS BEEN TAKEN OF ALL	YES	NO	
STOTEMS	2		
HAS THE CLIENT/MAIN CONTRACTOR	YES	NO	
BEEN NOTIFIED OF THE COMPLETION			
OF THE WORKS AND THE COMPLETION			
CERTIFICATE SIGNED			

Please provide any additional comments regarding the installation below:

DATE OF INSTALLATION COMPLETION	4.5.22
INSTALLER NAME	Chircis ADAMS
SIGNATURE OF INSTALLER	

# **Examination Scheme for Inspection (ExSI)**

All Horizontal Lifeline systems are required to be re-certified at periods no greater than 12 months to keep them in use under EN 795:2012. This period can be reduced in high corrosion locations, or if the systems are deemed to be in high use.

Re-certifications should only be carried out by competent persons, familiar with the fundamentals of the Soter system. No one that is not a recognised and approved Soter installer should attempt to repair, modify, dismantle a system or adjust the pre-set tension as this will invalidate the installation and may put lives at risk.

The systems on this project must be examined as follows:

Installation Examination - Carried out at time of installation

Periodic Examinations – Every 12 Months

**Interim Examinations** – Required for a number of factors which may have had an effect to the system since the periodic examination for example if anyone has had a fall, a load has been applied to the system, any damage is visible to the system, if the system is in a corrosive environment, if the system has been modified or if the access requirements have been amended.

**Supplementary Examinations** – As the only hidden elements of the safety system on this roof are the bases of the rivets which have a design life of 25 years we do not believe that any supplementary examinations are required.

During the inspections a number of elements should be inspected including the posts, the components, the cable, the post fixings, the system layout etc.

These should be inspected using the following methods:

*Visual* – Configuration, damage, wear, corrosion, deformation, cracking, weakness, fixings

*Tactile/Functional* – Damage, operation, traveller travels all components, wear, tears, sharpness

Proof Loads - Swages, fixings

*Dimensional* – Fixing spacings, post centres, edge distances, distance from hazards, tolerances

To carryout testing of the horizontal lifeline, fully calibrated Hydrajaws in line testing equipment is required with all swaged wire terminations required to be pull tested to 15kN for 1 minute before release – the swage ends should be capable of withstanding this load with movement.

# **Examination Scheme for Inspection (ExSI) continued**

#### **Documentation:**

An essential part of the system is the correct documentation for the system which includes the technical file, the O&M manual, the examination scheme for inspection and the report of inspection prior to 1<sup>st</sup> use.

During each inspection all documentation should be checked and if not available this should be produced (there may be costs for the client associated with the production of these documents).

It is recommended that during the inspection the manufacturer of the system is contacted to determine if there have been any product recalls and if these have been actioned.

During the inspection all systems and posts should be inspected to ensure they have the correct and legible markings and signage.

#### **Users Equipment (PFPE):**

As part of the system inspection, all users equipment should be inspected by a competently trained person to ensure all items are in good condition and suitable for us with the system.

The SFS Soter II system on this project including the Slyder travelling devices and post fixings have a warranty of 25 years.

The Users Equipment provided (the harnesses and lanyards) have a 10 year life span from date of manufacture and must be cut up and replaced after this date regardless of the condition.



# **UNIQUE SAFETY SYSTEMS**

# User Instructions for Safety Systems providing protection against falls from height

These Instructions must be adhered to if safety is to be ensured

Client: IRC Carocelle Ltd

Installed at: Tungsten Properties Calder Park Wakefield WF2 7BJ

> Contract No: C750

# UNIQUE SAFETY SYSTEMS

## Contents

- 1. Contract Details
- 2. Introduction
- 3. Site Specific Information
- 4. Key Points
- 5. Control
- 6. General Requirements for Usage
- 7. Warning Signs
- 8. Connecting To/from the System
- 9. After a Fall
- 10. Inspection, Maintenance & Storage
- 11. System Method Statement (Important)
- 12. System Layout Drawing
- 13. PPE Inspection Record
- 14. Record of Authorised users
- 15. Test Certificate
- 16. Periodic Examination Record
- 17. Service agreement
- 18. System Components data sheets

# UNIQUE SAFETY SYSTEMS

### 1. Contract Information

The design work for the safety systems covered by these instructions was undertaken by Unique Safety. For further information relating to these systems, user training or replacement Personal Protective Equipment (PPE), please contact Unique Safety at the address below quoting the contract reference number on the front page.

Unique Safety Systems Unit 4 Winster Grove Great Barr Birmingham B44 9EG

Tel: 0121 325 2600 Email: info@uniquesafety.co.uk

# 2. Introduction

These User Instructions contain important information regarding the Safety System/s, which have been installed for use at the premises. These systems have been designed to provide safe access and to protect against falls from height. Specific activities identified in a risk assessment for the building such as: roof light, cleaning, gutter cleaning, roof access, maintenance of services, roof inspections etc. are covered by the system/s, full details are provided in Site Specific Information.

Safety systems can fall into three categories, 'Collective Protection' systems, 'Work Restraint' systems or 'Fall Arrest' systems.

Collective Protection Systems such as guard-rails provide a safe zone inside the boundary or the guard-rail where any user can work safely without the need for additional height safety Personal Protective Equipment (PPE). There is no specific requirement for user training for Collective Protection Systems, but personnel must be aware of the design principals of the system and any limitations to its effectiveness.

Work Restraint Systems are designed to restrict the degree of travel and prevent the user reaching the point where a fall risk is present. Specific user PPE is required to ensure correct use of these systems and prevent possible injury. All system users should have also undergone training in the correct use of the system and its related PPE.

Fall Arrest Systems are designed to minimise the risk of injury caused by a fall should it occur. Again, specific user PPE and training are required to ensure the safe and correct use of these systems.

As described above all personnel using work restraint and fall arrest systems must receive suitable training regarding the use of the system to be deemed competent for working at height as described within BS EN 365-2004 Section 4.2.2 item d and more detailed within BS8437:2005 section 15.1.1 to 15.2.6 (Aptitude/training).

The equipment and systems are designed for a specific application and are unique to it, they should not be moved, transferred, altered or amended in any way. Warning:

These Safety Systems require to be inspected and certified on a periodic basis by a competent person as laid down in the relevant British Standards. The system details have automatically been entered into Unique Safety's database to enable us to provide you with a reminder when the system is due for recertification. If you do not receive a reminder please contact Unique Safety on 0121 325 2600.

# 3. Site Specific Information

# Details of Equipment Supplied and Installed

A summary of the safety system is given below:

System Location:	Perimeter of roof main roof and two office roof areas. System includes short runs into the valley gutters.
Equipment:	Soter II Safety System fitted to posts fixed directly to the CA Twin Therm Quantum roof structure using 8 No Bulb-Tite rivets per post.
System Reference:	C750
Designation:	This System acts as a Restraint only system
System Specific PPE:	Horizontal Travelling Device (Slyder) Full Body Harness 1.8 Metre Twin Leg Shock Absorbing Lanyard
Purpose:	Access for personnel carrying out gutter cleaning maintenance, etc
Quantity:	795 linear metres in 13 No. runs.
Number of users:	2 Maximum at any one time. Must not be exceeded.
Access:	Access to the roof will be via suitable MEWP.

# 4. Key Points

- Full body safety harnesses only should be worn.
- Either energy absorbing lanyards or retractable lanyards approved by the installer should be used.
- The user equipment (PPE) should be subject to a basic inspection for its condition prior to every time it is used and that this is recorded prior to use.
- The system must be inspected regularly and must not be used if it has not received a full inspection within twelve months. Visually inspect the system prior to use.
- Fall Protection Systems should only be used by persons trained and competent in working at height. Their names should be recorded and kept in the Record of Users. All users of the system should have confirmed in writing that they have read the supplied User Instructions and any other information relevant to their personal safety.
- The system should have a record card giving full details of the installation and user requirements.
- A warning tag fitted to the system should highlight safety requirements.
- The system should not be used after a fall on the system. The system must be checked before its next use.
- Pregnant women and minors should not use fall arrest equipment.
- Unique Fall Protection Systems have been tested to EN 795: 2012 Type A1 & A2 and Type C.

# UNIQUE SAFETY SYSTEMS

# 5. Control

Safety Systems should be under the control of the Building Manager.

The Building Managers are advised to procure and maintain Record Cards for each system. These cards should contain information similar to that shown. See Sections 13, 14 & 16.

### RECORD CARD

# SYSTEM DETAILS

INSTALLER	Unique Safety Systems Unit 4 Winster Grove Great Barr Birmingham B44 9EG	1 0121-325 2600 X: 0121-325-2610
SERIAL NUMBERS.		
TRAVELLER		
HARNESSES		
LANYARD		
ROPES		
YEAR OF MANUFACTURE		
DATE OF PURCHASE		
DATE FIRST PUT INTO USE		
MAINTENANCE PERIOD (NOT		
GREATER THAN TWELVE		
MONTHS)		
EQUIPMENT TO BE USED		
INSTRUCTIONS READ AND		
UNDERSTOOD	2	
DETAILS OF PREVIOUS		
TRAINING		
AUTHORISED USER		
COMMENTS		
	<u></u>	

# UNIQUE SAFETY SYSTEMS

### 6. General requirements for usage

- All attached personal protective equipment (e.g. harnesses, lanyards, energy absorbers etc.) must comply with the national standard in force.
- Only those items of related safety equipment approved by the Installer should be used on horizontal safety systems. If in doubt, ask.
- Full body harnesses only should be worn. Energy absorbing lanyards or retractable lanyards approved by the installer should be used. (See section 3)
- Do not tug or load the Safety cable unnecessarily during use. This action will tend to accelerate wear and possibly deploy cable shock absorbers.
- The Systems should be used by persons deemed to be competent and fit by Site Supervision, and their names recorded in a register. All users of these systems should have confirmed in writing that they have read the supplied User Instructions and any other pertinent safety information.
- All users of the system should comply with the Instructions and guidance contained in the user instructions and highlighted on warning notices placed adjacent to systems.

Prior to operation, the User must inspect the system for obvious faults:

- Damage to traveller
- Over-looseness of assembly
- Over-tightness of assembly
- □ Other obvious damage
- Corrosion

At the start of use the user should travel the length of the system and check for the following:

- Excessively loose cable (e.g. excessive sag)
- Cable damage (E.g. breakage, fretting or corrosion)
- Cable bracket/ termination damage or corrosion.
- □ End anchorage looseness
- □ Absence of split pins from Clevis Pins

If, at any time, any of the above problems are noted, or if there is difficulty in moving along the system, the worker should immediately exit the system at the safest point and report the observation to Site Management. The system should be quarantined and not used again until it has been inspected and approved by Unique Safety.

# UNIQUE SAFETY SYSTEMS

## 7. Warning signs

Warning labels/lock out notices should be clearly visible at access points to the installed system(s). These labels should indicate:

- The latest inspection date. If the difference between the usage and the latest inspection date is greater than twelve (12) months, the system Must Not Be Used and should be reported to site management.
- The maximum number of attached workers.
- That only the Personal Protective Equipment supplied by Site Supervision should be used.

### 8. <u>Connecting and using the System</u>

Attachment to the Safety Line should only be made at a designated point in each system.

The operative will have attached a shock absorbing lanyard to the harness at the appropriate position with the shock absorber fitted closest to the harness attachment. The other end of the lanyard will be attached to the traveller which will be attached to the system at the designated point of access allowing the operative to safely walk the area covered by the safety system. Where it is necessary to move from one system to another or where a rope is to be used the operative will attach the second lanyard or device to the harness before disconnecting the first lanyard from the system.

It is essential the operative is at all times attached to the safety system with at least one lanyard.

Each system has been specifically designed – for site specific information regarding the use of the system please refer to the method statement, section 11.

Failure To Observe These Instructions Could Result in Accidental Death

### 9. <u>After a Fall</u>

Falls on systems utilising the cable shock absorber will cause the shock absorber to permanently deform and thus to introduce significant slack on the system. A shock absorber that has been deployed will be clearly visible.

Where shock absorbing posts are installed deformation of the posts may be visible following a serious fall event.

Users should thus check the appearance of the energy-absorbing element where possible and the slackness of the system.

Where no energy-absorbing element is incorporated, the cable may appear slack in the span where a fall has occurred.

Should the System show any of these signs, it should be reported and The System Should Not Be Used !

Under no circumstances should the slack resulting from a fall be taken out by adjustment of the system.

Any devices that have arrested a fall should **not** be returned to storage without being identified and reported. Such devices should be returned to **UNIQUE SAFETY SYSTEMS** the Installer Company.

# UNIQUE SAFETY SYSTEMS

## 10. Inspection, Maintenance & Storage

All equipment should be inspected and re-certified at intervals not exceeding twelve months or as otherwise indicated on the individual component and only by persons authorised by Unique Safety Systems.

The system should be inspected for

- Damage or looseness to anchorages
- Corrosion
- Cable damage
- Evidence of a previous fall e.g. slack cable
- Excessively loose cable

If this inspection reveals defects, damage or unauthorised modification, inadequate maintenance, or a fall arrest, this should be reported to Site Management. The equipment shall undergo corrective maintenance by Unique Safety Systems before being re-certified and returned to service.

During storage, all equipment must be kept away from contaminants such as acids, alkalies, grit and oils.

Before use, ensure that:

- Locking mechanism (where applicable) operates freely.
- Any personal protective equipment that has arrested a fall should not be returned to storage without being identified and reported. Such equipment shall be returned to the Installer Company.
- During the course of inspection/maintenance checks, all personal protective equipment should be made available to the Installers by Site Management,

There are no parts of this system that can be adjusted or maintained by any person other than Unique Safety or an authorised trained competent person.

In order to maintain compliance with the standards, to which the system has been designed and installed, it must be subject to "Periodic Examination" at least once every twelve months. This examination must be carried-out as specified by BS365: 2004 by Unique Safety.

Should the system show any of the signs of a fall or other damage, it should be reported to Unique Safety and the system should not be used until it has been examined and re-certified.

Under no circumstances should the slack resulting from a fall be taken out by adjustment of the system.

# UNIQUE SAFETY SYSTEMS

#### FALL PROTECTION SAFETY SYSTEMS

## 11. Method Statement

The system has been installed as a restraint only system to enable safe access to the roof for gutter cleaning and PV Panel/Rooflight access using a standard-length lanyard (1.8m) based on access being provided with the use of a suitable MEWP (Articulated Boom Machine).

To access the roof an articulated MEWP would be required to allow the users to position the basket beyond the roof edges to reach the first anchorage post of the safety system which is fixed at a minimum distance of 2.3 metres beyond the edge of the roof.

This distance of 2.3 metres is required to ensure the user is unable to reach beyond the roof edge when using a standard lanyard attached to the safety restraint system.

The users must wear a full safety harness and adjustable safety restraint lanyard (not the Shock absorbing Lanyard in the MEWP) fastened to their harness and the MEWP anchorage point in accordance with the machine operation instructions.

The MEWP must be manoeuvred to position the basket of the machine above the roof surface (To prevent damage to the roof) and within the reach of the first anchorage post of the system from within the safety of the basket.

The user may then attach a shock absorbing lanyard which is also fastened to their harness and attach this lanyard to the safety system using the travelling device before removing the safety restraint lanyard from the MEWP anchorage point and stepping from the basket onto the roof surface.

All personnel using the system must wear full body harnesses and suitable shock absorbing lanyards attached to the safety system, utilising the appropriate travelling device.

The central valley gutter could be considered a safe zone assuming the users reattach to the valley system before attaching to the perimeter system – the client must ensure all users are competent for the required works ensuring they only disconnect when in a safe zone (and safe weather conditions) and never walk off across the roof (only access the internal gutter).

Where the user is required to transfer from one system to another the second leg of the lanyard must be attached to one of the systems before disconnecting the first leg of the lanyard (attached to the traveller) – this can then be attached to the system to be transferred to prior to removing the second lanyard – this process ensures the user is attached at all times.

It is essential the personnel using the system are attached at all times to either the system or a fixed point anchorage, i.e. **Personnel must** <u>never</u> be at risk within the hazardous areas.

The personnel using the system must be trained upon its use and in conjunction with the operation and maintenance instructions provided.

Please refer to the layout drawing relating to the project, for any particular notes that may be applicable for each system location.

# 13. PPE Inspection Record

### PPE Set No. 1

List of PPE	Manufacturer	Serial No.	Date of Manufacture	Date of Issue
Travelling Device	Soter	8011	-	May 2022
Full Body Harness (RGH2)	RidgeGear	22-707223	31/01/2022	May 2022
1.8m Twin Leg S/A Lanyard	RidgeGear	22-715636	14/02/2022	May 2022

### PPE Set No. 2

List of PPE	Manufacturer	Serial No.	Date of Manufacture	Date of Issue
Travelling Device	Soter	8733		May 2022
Full Body Harness (RGH2)	RidgeGear	22-707182	31/01/2022	May 2022
1.8m Twin Leg S/A Lanyard	RidgeGear	72-715637	14/02/2022	May 2022

Please note all users of the system should be provided with the above PPE and have received adequate training regarding the use of the system.

Should you require us to provide any additional items of the above items please contact below for a quotation:

Craig Edwards (Unique Safety) 0121 325 2600 craig@uniquesafety.co.uk

# **Users PPE Examination Record for use with Soter II Safety System**

Before each use of the Safety System the user equipment listed on the previous page must be examined by the user to ensure all items are in good condition and the table below completed.

Inspection Date	Set No.	Comments	Inspected by	Signature
			6	

# Periodic PPE Examination Record for use with Soter II Safety System

The user equipment listed previously must be examined to ensure all items are in good condition and the table below completed by a competent person during the same time that the annual inspection of the safety system is carried out.

Inspection Date	Set No.	Comments	Inspected by	Signature
	5			

# 14. <u>Record of Authorised Users – Soter II System</u>

The names and other relevant details of persons who acknowledge that they have read and understood these User Instructions should be recorded below.

Date	Reasons for Access	User's Name Please Print	Employing Company	User Signature	Authorised by Please Print	Authorised by Signature

### 16. Periodic Examination Record – Soter II Safety Systems (Annually)

#### **Equipment Details**

Type: Soter II Safety System	Location: Wakefield
Issue Date: June 2022	Installation Date: May 2022
Premises: Calder Park	Designer: Unique Safety Systems
Contract No: C750	Examination Interval: 12 Months

This equipment was designed and installed by Unique Safety Systems. Appropriate certification for this system has been issued. In accordance with the recommendations of BS EN 355: 2002 and BS EN 7883: 2005, subsequent examinations must be made by a competent person, authorised by Unique Safety Systems at the interval stated.

A record of these examinations must be maintained below.

#### **Examination Record**

Date	Examiners Comments	Name (Please Print)	Company	Signature
			N	
<u>35</u>				

Our ref: MA/ENQ UNI/4062/C750

Your Ref: Order No. 2172/158

01<sup>st</sup> June 2022

IRC Carocelle Limited Unit 12a Maybrook Industrial Estate Walsall Wood West Midlands WS8 7DG

For the attention of Wayne Sprason

Dear Sirs,

#### Re: <u>SAFETY SYSTEM RETEST – CALDER PARK, WAKEFIELD</u>

Further to the completion of the above system in May 2022 would you please note the Soter II Safety Restraint System is required to be re-tested annually following our completion and we offer to carry out the works as follows:

The systems to the roof must be tested and certified annually to comply with current legislation as follows:

BS EN 365: 2004 Personal protective equipment against falls from a height – "General requirements for instructions for use and for marking" require the system(s) be examined and serviced at least once every twelve months by a competent person authorised by the system manufacturer.

Each system would be visually inspected, all fixing bolts would be re-tightened and checked for signs of corrosion, all components including the safety cable would be checked for signs of wear and all cable termination points would be tested to ensure no slippage has occurred. Each system would then be re-tensioned, and a new test certificate would be issued for a period of one year. During our visit we would also inspect all personal Protective Equipment i.e., Harnesses, Lanyards etc for signs of general wear or damage.

Should the client wish to enter into a service agreement with us we would hold our price for a period of three years and would inform them annually when the systems are due for re-test.

#### **Quotation**

To carry out the above works for the sum of:

#### £660.00 Per visit per year NETT (Six Hundred and Sixty Pounds)

The above would be subject to our usual terms and conditions which are available upon request and excludes any access equipment which may be required to carry out the works.

Continued.....



Would you please note that if during normal use the system has arrested a serious fall, the system should be withdrawn from use as detailed within the users' instructions and inspected by ourselves to ensure all the components are in good working order before re-testing the system and returning the system to use.

If during the service visit the systems are found to have arrested any fall or if any components require to be replaced, we would issue you with a cost prior to carrying out any remedial works.

Our price has been based on the works being undertaken during a single visit to site. No provision within our quotation has been made to accommodate return visits caused by restricted access. If for any reason we are unable to access the roof during our visit we would require to charge for a revisit at a later date.

Payment Terms: 30 days from date of issue.

We trust the above meets with your approval and look forward to receiving your further instructions.

Yours faithfully

Mark Allden.













eee	Technical Datasheet #0017
313	7x7x8mm / FP- AC-C-8 / 1501253
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	SPECIFICATION
	Material Stainless steel grade 316

Material Finish Weight (kg) Quality Conformity Stainless steel grade 316 N/Å 0.25 / Mtr ISO 9001 EN795 2012 / CEN: TS 16415

#### APPLICATION 7x7x8mm marine grade stainless steel wire for horizontal and overhead safety line system requirements



Issue date: Feb 2018




# Soter<sup>™</sup> II Intermediate Can



#### Specification

Product code	FP-A-IPA
Material number	1520733
Material	Stainless steel grade 304
Finish	Polished
Weight (kg)	1.446
Quality	ISO 9001
Conformity	EN 795:2012, CEN/TS 16415:2013



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#### Application

Soter<sup>™</sup> II Intermediate Can Assembly to be fitted to Multi-use baseplate suitable for roof construction, tightened down to baseplate using strap wrench tool. Posts to be used as intermediates at spans no greater than 10m. Can also be used as single point anchors.



The details stated are results of tests and/or calculations and therefore are non-binding and do not represent guaranties or warranted characteristics for not specified applications. All calculations therefore have to be checked and approved by the responsible planner ahead of execution. The user is responsible to assure compliance with all applicable laws and regulations.

SFS Group Fastening Technology Ltd. | 153 Kirkstall Road | Leeds LS4 2AT | uk.info@sfsintec.biz | www.sfsintec.co.uk



## **Soter device operation**

### Soter device open

Figure 1 shows the device open (top view) to allow connection to the wire rope.

Figure 2 shows the increase between the jaws of the device (bottom view).

**Figure 3** shows the offset of the jaws and the interlocking section of the two parts.



### Soter device closed

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Figure 4 shows the device closed (top view) without a karabiner.



Figure 6 shows everything in line with reduced gap when closed.



Figure 5 shows the decrease between the jaws when closed.



# Soter device open, closed, locked with karabiner on line

Figure 7 shows part closed on the wire Figure 8 shows fully closed read



**Figure 8** shows fully closed ready for locking onto the wire rope.



Figure 9 shows fully closed and locked with the karabiner.



but not locked.