Manufacturer's Declaration



Company Name:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH, United Kingdom
Equipment Type:	Paint Process Data for D1x, D2x, BEx & IS-CP4 Aluminium and STEx Stainless Steel Product Ranges.

European Safety Systems Ltd. hereby declare the following:

E2S LM6 Aluminium and 316 Stainless Steel Product are all painted to the following marine compatible paint grade. The general specifications are as follows.

Material Types:

- Aluminium LM6 to BS 1490:1988 (or equivalent specification A143) Pre-paint treatment: Chromate Conversion MIL-DTL-5541F Type II Class 1A. Bonderite M-NT 5200LS tank immersion to develop passivation layer. Process to include: Mild alkaline degreasing, deoxidising, passivation with rinse between stage.
- 316 or 316L Grade Stainless Steel

Surface Preparation:

- All surfaces to be coated shall be clean, dry and free from oil, grease and contamination.
- Oil and grease should be removed in cleaning tank.
- Prior to paint application, all surfaces should be assessed and treated in conversion coating tank.

Coatings:

• Paint

Polyester Powder Coat: Guidance Thickness 60 – 120um To provide outstanding weather resistance combined with colour and gloss retention in industrial and marine environments.

Colours

Red: RAL 3000 (Semi-Gloss) – Use Jotun G Style E08T Red 35155 Grey: RAL 7038 (Smooth) – Use Jotun PEF 1408 Grey

Testing of Paint performance:

E2S assess that the preparation, painting and coating processes described above provide the protection that would be employed on steel structures to achieve the following :-

ISO 12944 Category CX compliance for "Extreme corrosion environment in coastal and related marine structures".

ISO 12944 Category C5VH compliance for "Very High corrosion environment in coastal and related marine structures".

ISO 12944 Category C5H compliance for "High corrosion environment in coastal and related marine structures".

Desmond Gayler Quality Assurance Manager

Document No.: DG-059 Issue_F Date and Place of Issue: London, 18/09/2024

Manufacturer's Declaration



This assessment is supported by external testing completed by Element see certificates of conformity for each paint colour attached.

- Element CoC [ISO 12944-6 CX Red] •
- Element CoC [ISO 12944-6 CX Grey] ٠
- Element CoC [ISO 12944-6 C5VH Red] •
- Element CoC [ISO 12944-6 C5VH Grey] •
- Element CoC [ISO 12944-6 C5H Red] •
- Element CoC [ISO 12944-6 C5H Grey]

In addition, we also see E2S field equipment warranty data from harsh and hazardous marine applications, and supported by third party DNV, MED and ABS environmental conditioning and salt spray test results.



Desmond Gayler Quality Assurance Manager

Document No.: DG-059 Issue_F Date and Place of Issue: London, 18/09/2024



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P:+31 (0) 20 55635 55 Bank ABN Amro IBAN NL74ABNA0529117738 BIC ABNANL2A BTW NL805695333B01 KvK 24170257

Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	Guard Style E T RAL 7038 at 90 µm
Manufacturer	Jotun

Tested on behalf of :	E2S Warning Signals
	Impress House
	Mansell Road
	London W3 7QH
	United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO041653P-CX RAL 7038-Rev.1
Dated	: 03-10-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-9 Part 9, 2018-01; CX, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (**Tested without scribe and scribe evaluation.**)

The above coating scheme passed the tests and meets the requirements for ISO12944-9 Part 9, 2018-01; CX, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

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Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	Guard Style E T RAL 7038 at 90 µm
Manufacturer	Jotun

Tested on behalf of :	E2S Warning Signals
	Impress House
	Mansell Road
	London W3 7QH
	United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO041653P-CX RED 35155-Rev.1
Dated	: 03-10-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-9 Part 9, 2018-01; CX, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (Tested without scribe and scribe evaluation.)

The above coating scheme passed the tests and meets the requirements for ISO12944-9 Part 9, 2018-01; CX, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

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Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	Guard Style E T RAL 7038 at 90 µm
Manufacturer	Jotun

Tested on behalf of :	E2S Warning Signals
	Impress House
	Mansell Road
	London W3 7QH
	United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO041653P-C5VH RAL 7038-Rev.1
Dated	: 03-10-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-6 Part 6, 2018-01; C5VH, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (**Tested without scribe and scribe evaluation.**)

The above coating scheme passed the tests and meets the requirements for ISO12944-6 Part 6, 2018-01; C5VH, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

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Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	Guard Style E T RED 35155 at 90 µm
Manufacturer	Jotun

Tested on behalf of :	E2S Warning Signals
	Impress House
	Mansell Road
	London W3 7QH
	United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO041653P-C5VH RED 35155-Rev.1
Dated	: 03-10-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-6 Part 6, 2018-01; C5VH, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (**Tested without scribe and scribe evaluation.**)

The above coating scheme passed the tests and meets the requirements for ISO12944-6 Part 6, 2018-01; C5VH, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

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Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	RAL7038 (smooth) PEF 1408 Grey DFT= 60 - 120µm
Manufacturer	Jotun

Tested on behalf of :	E2S Warning Signals
	Impress House
	Mansell Road
	London W3 7QH
	United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO040863-4 rev. 2
Dated	: 01-11-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-6 Part 6, 2018-01; C5H, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (**Tested without scribe and scribe evaluation.**)

The above coating scheme passed the tests and meets the requirements for ISO12944-9 Part 9, 2018-01; C5H, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

Author: Maxim Hopstaken Department Manager Coatings Authorised by:

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Certificate of Compliance

Coating system	
Surface prep.	Chromate Conversion to MIL-DTL-5541F TYPE II CLASS 1A: SURTECH 650 BONDERITE M-NT-5200LS
Coat 1	RAL3000 (semi-gloss) G style E08T Red 35155 DFT= 60 - 120µm
Manufacturer	Jotun

Tested on behalf of : E2S Warning Signals Impress House Mansell Road London W3 7QH United Kingdom

Test laboratory	: Element Amsterdam, The Netherlands
Report number	: ERO040863-4 rev. 2
Dated	: 01-11-2024

Element hereby certify that the above-named system has been tested in accordance with ISO12944-6 Part 6, 2018-01; C5H, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems." (**Tested without scribe and scribe evaluation.**)

The above coating scheme passed the tests and meets the requirements for ISO12944-9 Part 9, 2018-01; C5H, "Paints and varnishes — Corrosion protection of steel structures by protective paint systems."

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