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TECHNICAL REPORT

Sayfa Group (Europe) Ltd	SATRA reference:	SPC0352363	
Unit B1	Califa Gra	2327	1
Research Point	Report ID/Issue number:	31920/5	
Shepshed	Your reference:	505 ₂₃ 63	P40 (F
Leicestershire	Date samples received:	04/07/2023	
LE19 1WH	Date(s) work carried out:	01/08/2023 to 30/01/2024	
United Kingdom	Date of report:	31/01/2024	

Testing Requirements

Testing of a horizontal rail system described as "EdgeSeil Rail" in accordance with BS 8610:2017

Types D2, D3 & D5 for 3 users

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Report Signed by:

Laura Croft

Report Signatory

Group (Europe)



Sayfa Group (Europe) Ltd Technical Report

WORK REQUESTED

Samples of "EdgeSeil Rail" were received by SATRA on the 1st August 2023 & 30th January 2024, for testing in accordance with BS 8610:2017 types D2, 3 & 5 for up to 3 users

CONCLUSIONS

CONCLUSIONS	Sp _{C03532}	Sayfa Grov.	12-
SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	PASS / FAIL
		4.1 General requirements	PASS
		4.2 Pre-testing verification and recording requirements	PASS
EdgeSeil Rail 🟡	BS 8610:2017	4.3 Materials	PASS
(CO3	Grand Grand	4.4 Design and ergonomics	PASS
be) Ltd	¹ 2363	4.5.3.3 Type D2, Type D3 & Type D5 – Non-load- limiting rigid anchor rail	PASS
TESTING		10p ₆) L _{td}	"Up (Europe)
Testing was carried out	in accordance with BS 8	610:2017 between the 1st August & 9th October 2023	~6)

TESTING

The anchor device is intended as a type D (rigid anchor rail) device

The anchor device allows up to a maximum of three users to be attached simultaneously

For the purposes of testing, the anchor device was installed onto concrete, with test forces applied in a direction parallel to the ground

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in Ta Group (Europe) Ltd individual test clauses

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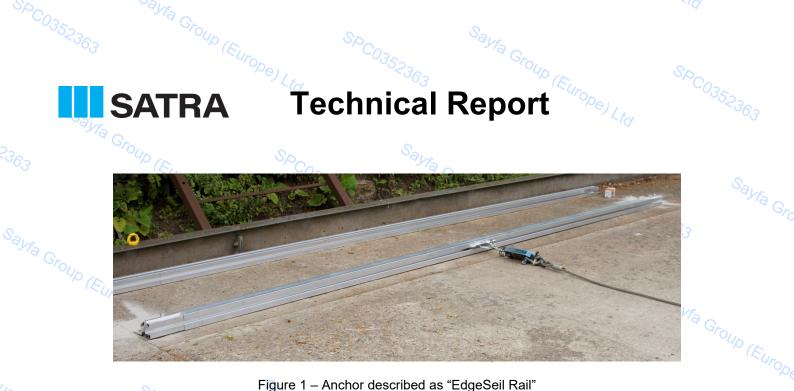


Figure 1 - Anchor described as "EdgeSeil Rail"



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TEST RESULTS

Table 1 - Testing of "EdgeSeil Rail" in accordance with BS 8610:2017, Type D2, 3 & 5 Non-load-limiting anchor

BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS FAIL
4.1 General	Anchor systems shall be	The anchor device was tested in		PASS
requirements	tested in the base	concrete	3	2.
3)(materials that the	The Constitution of the Co		ANIA O
	manufacturer permits,	35	20	Gr
	unless otherwise	() () () () () () () () () ()	³ 63	
	specified in the relevant			
	test methods			
SX	avr.			
5 0.	Where the manufacturer	Testing was carried out in 1 direction on	0	PASS
Sp _e) L _{td}	permits loading in more	each relevant safety critical position	Salve	
Ltd	than one direction,	(Eur. Cos.	19 G	
	anchor systems shall be	1000 S S S S S S S S S S S S S S S S S S	0/04)	
	tested in each relevant	to og	^	Elle
	principal safety critical	4		4/0/0
0.	direction			
0,0	ayra -			
0352	Where alternative	Not applicable – no alternative		N/A
~36°	configurations of the	configurations		
30	same type of anchor	0350 Gr		
	device are to be made	2363	/O CALIA	
	available, the worst	t _Q	N/A	
	configuration shall be		(PO)	
S _{ay} ,	tested, ensuring the limit			to
	is set for the			
5523 ₆₃	configuration that could	Sa.		
~63	be offered	PCO STATE OF		
	- Uropa	352		
	If the geometry,	Not applicable – no alternative	S	N/A
	configuration, or	configuration, geometry or materials		~035.
.0	material of an anchor	used	1/*	~
alla	device, including the		-(0)	
'd Gra	structural anchor, differs			
1040	from the one that has	O. alve		
12	been tested as part of	19 Gr.		
	the anchor system, the	Group (Europe) Ltd	Sp _{C035236}	
	anchor system shall be	3 ~ (Eur	COS	
	verified by testing to	40pg1	2025	
No.	clause 5, or proven by	Lta	108	3
	calculation with the	4		
7/to//_	results recorded			
Houp (Europe) Lta	SPC0352363	SPC03523		
4rop-	-035 ₂	Ground	.0.	Via Grou
~e)/*	~363	SPC-	99	Via -
-10	,	SPC03523		" Gra
		700),		\sim

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BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / S
4.2 Pre-testing verification and recording	It shall not be possible for elements of the anchor system to	Unintentional detachment is unlikely during normal use	(666)1946 17	PASS
requirements	become unintentionally detached	Payfa Gro.		,
Ltd (If an element can be removed it shall be designed to have at	Greater than 2 deliberate actions are required in order to remove the traveller from the rail	36°	PASS
Spc	least 2 separate, consecutive, and deliberate manual actions	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	-0	
(ropo) Ltd	For anchor systems which include removable	Incorrect assembly would be visually evident	Sayfa Grou	PASS
	elements, those shall be such that they cannot appear to be positively	(363) L _{tq}	N/A	(Europe) Lite
SPC0352363	locked together when they are not, due to incorrect assembly	Sp. Sayra		10
	Anchor points shall be designed to ensure easy engagement and free	Connectors can rotate freely and sit in their preferred load bearing position	ID (Europ	PASS
Sayra G	rotation of connectors and that connectors align in the preferred		~0)	to
~363	load-bearing position If a fall or overload indicator is incorporated,	Not applicable – no fall indicators included	S	N/A
Sayfa	the indicator shall clearly show that a fall has occurred upon	included included	Ltd	CO352363
Sayla Group (Euro	completion of the dynamic and static tests	Sayfa Group (Europe) Ltd	SPC035236	Sayra

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4.2 Pre-testing verification and recording requirements The mass of any element of an anchor system that is intended to be transported shall be less than 25kg The maximum rated load (RL _{max}) shall be a minimum of 100kg and shall be round ed to nearest 0.1kN 4.3 Materials Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable) Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in recordance with ISO applicable – no wire ropes Maximum weight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg Maximum weight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg N/A Maximum veight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg Maximum veight of transportable parts of anchor: 24.5kg Moximum veight of transportable parts of anchor: 24.5kg Moximum veight of transportable parts of anchor: 24.5kg N/A Maximum veight of transportable parts of anchor: 24.5kg N/A Maximum veight of transportable parts of anchor: 24.5kg N/A Maximum veight of transportable parts of anchor: 24.5kg Moximum veight of anchor: 24.5kg Moximum veight of anchor: 24.5kg Moximum veight of anchor: 24.5kg N/A Ma	BS 8610:2017	BS 8610:2017	RESULT / COMMENT	OUoM	PASS /
verification and recording requirements element of an anchor system that is intended to be transported shall be less than 25kg The maximum rated load (RL _{max}) shall be a minimum of 100kg and shall be round ed to nearest 0.1kN 4.3 Materials Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable) Temperature: 35 °C Fall out rate: 4.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in recording that is intended to be transported shall be lost in accordance with ISO shall be lost			(8)	(See note 1)	FAIL
be less than 25kg The maximum rated load (RL _{max}) shall be a minimum of 100kg and shall be round ed to nearest 0.1kN 4.3 Materials Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable) Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized with ISO Steel wire ropes shall be galvanized with ISO Steel wire ropes shall be galvanized with ISO Not applicable – no wire ropes Not applicable – no wire ropes Not applicable – no wire ropes	verification and recording	element of an anchor system that is intended		352	PASS
The maximum rated load (RL _{max}) shall be a minimum of 100kg and shall be round ed to nearest 0.1kN 4.3 Materials Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable) Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in accordance with Not applicable – no wire ropes Maximum rated load per user: 100kg Maximum rated load per user: 100kg PAS Corrosion test in accordance with ISO 9227: 2017 - 96 hours Neutral Salt Spray, with a break for 1 hour at 24-hour intervals Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Not applicable – no wire ropes See table 2 See note Not applicable – no wire ropes Not applicable – no wire ropes Not applicable – no wire ropes	OUP (F.		avia _		
Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable) Wire ropes shall be made from stainless steel, or galvanized in geverators with ISO Steel wire ropes shall be galvanized in geverators with ISO Metallic parts shall show no evidence of any corrosion test in accordance with ISO 9227: 2017 - 96 hours Neutral Salt Spray, with a break for 1 hour at 24-hour intervals Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Not applicable – no wire ropes Not applicable – no wire ropes See table 2 See note 2 See note 2 Not applicable – no wire ropes Not applicable – no wire ropes	-urope) Ltd	load (<i>RL_{max}</i>) shall be a minimum of 100kg and shall be round ed to	Maximum rated load per user: 100kg	N/A	PASS
Temperature: 35 °C Fall out rate: 1.93ml/hr pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in accordance with ISO	Co	Metallic parts shall show no evidence of any corrosion that could	ISO 9227: 2017 - 96 hours Neutral Salt Spray, with a break for 1 hour at 24-hour	Salva	
pH of test solution: 6.5 Specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in appared and a specific gravity of test solution: 1.032 Rust and white scaling present on nuts of fixture elements. No effect to device function See table 2 See note 2 N/A Steel wire ropes shall be galvanized in appared and a specific gravity of test solution: 1.032 Not applicable – no wire ropes N/A Not applicable – no wire ropes	J Ltd	device (white scaling or	Temperature: 35 °C	Tra Group	Euro
of fixture elements. No effect to device function Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in appeardance with ISO.	SpCO22	Sayla C	pH of test solution: 6.5		1000
Wire ropes shall be made from stainless steel, or galvanized steel conforming to BS EN 12385-4 Steel wire ropes shall be galvanized in accordance with ISO.	2363	Group (Europe)	of fixture elements. No effect to device	/ h	PASS
Steel wire ropes shall be galvanized in	Sayra	made from stainless steel, or galvanized	Not applicable – no wire ropes	See note	N/A
galvanized in 100	55 ₂₃₆₃	EN 12385-4	Seyfa Gro.		
accordance with 130		galvanized in	Not applicable – no wire ropes),.	N/A CO35236
2232. Other steel elements shall be galvanized in accordance with BS EN ISO 1461	Sayfa Group (r	elements shall be galvanized in accordance with BS EN	Sayra	-10	
ISO 1461	CUro	ISO 1461	Group	102	S

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BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / S
4.3 Materials	Load-bearing textile elements shall only be used if the manufacturer can demonstrate that they incorporate sufficient protection against Ultraviolet degradation for their foreseeable life	Not applicable – no textile elements	363 355	N/A Group
SPCO	Textile elements shall be made from virgin mono-filament or multi- filament synthetic fibres	Not applicable – no textile elements	Salve	N/A
Ltd	The breaking tenacity of synthetic fibres shall be a minimum of 0.6 N/tex	Not applicable – no textile elements	See table 2	N/A
SP _{CO352363}	Threads shall be of a contrasting shade or colour to the webbing or rope	Not applicable – no textile elements	See note 2	N/A
	Connectors shall conform to EN 362	Connectors are marked as compliant with EN 362	(Europe)	PASS
^{Sayfa} 6 ^{S35} 2363	Wire rope terminations shall not include U-bolt wire rope grips in any part of the anchor system	Not applicable – no wire ropes		N/A
Sayfa Group (Euro	Materials used for the wire rope termination shall be compatible with the materials used for the wire rope	Not applicable – no wire ropes	^N L _{td} SPC035236	N/A 363

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63	Group (E)	Spons	Sayra			
	BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / S FAIL	Via ,
'Via c	4.4 Design and ergonomics	The load-bearing edges of anchor points that are holes shall have a	Load bearing edges have a minimum radius of 1mm	255	PASS	
	Proup (Europe)	minimum radius of 1mm Anchor systems shall not have sharp edges or	Exposed edges are rounded to prevent injury	S	PASS	
	Ltd	burrs that may cause injury to the user. Exposed edges or	Europe) Lta	N/A	Syfa Group	(E)
	Spoon	corners shall be relieved either with a minimum radius of 0.5mm or a				-4/
CUr	Phe) Lta	chamfer of no less than 0.5mm x 45°	Spca	Sayra		
	4		410pe) Ltd	STOUX.	(Euror	
	Spen	Sayra			Spe) L	'Q'

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Ī	BS 8610:2017	BS 8610:2017	RESULT / COMMENT	UoM	PASS /
9 G	4.5.3.3 Type D2 – fall arrest – non- load-limiting, Type D3 – rope access	4.5.3.3.1 The maximum number of users permitted shall be no more than three	Maximum number of users: 3	(See note 1) N/A	PASS
	and work positioning – non- load-limiting & Type D5 – rescue – remotely or self- operated – direct attachment – non-	4.5.3.3.2 When tested for deformation with the load applied via the anchor point on each traveller to: a) the rigid anchor line at the centre of the	Position: Centre of longest span Required force: 9kN 9kN sustained for 3 minutes without failure Peak force: 9.1kN	²³ 63	Sayfa Group (
Uro	load-limiting	longest span permitted by the manufacturer; b) extremity anchors; c) intermediate anchors, where fitted; d) corner anchors, where fitted; and e) entry/exit line fittings	Peak force: 9.1kN Deformation: 0mm Position: Extremity anchor Required force: 9kN	± 50 N See note 2	PASS
	**************************************	and joints, cantilevers, and end stops, where fitted, the anchor system shall hold the load and no part of the anchor system shall	9kN sustained for 3 minutes without failure. Peak force: 12.7kN Deformation: 0mm	(Europe)	S/0 ₂
2 ₃₄	S _{ayra} (demonstrate permanent deformation of more than 10mm	Sayfa Group (Europe	2	Lty SP

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BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / S
4.5.3.3 Type D2 – fall arrest – non-load-limiting, Type D3 – rope access and work positioning – non-load-limiting & Type D5 – rescue – remotely or self-operated – direct attachment – non-load-limiting	4.5.3.3.3 When tested for dynamic performance with the load applied via the anchor point on each traveller to: a) the rigid anchor line at the centre of the longest span permitted by the manufacturer; b) extremity anchors: c) intermediate anchors, where fitted; d) corner anchors, where fitted; and e) entry/exit line fittings and joints, cantilevers, and end stops, where fitted, the anchor system shall hold the load clear of the ground.	Position: Centre of longest span 1st user dynamic 100kg test mass arrested Peak arrest force: 8.3kN Deformation of anchor: 145mm Slippage of traveller: 325mm Residual strength dynamic 100kg test mass arrested 2nd user dynamic (100kg applied statically to rail) 100kg test mass arrested Peak arrest force: 8.7kN Deformation of anchor: 145mm Slippage of traveller: 76mm 3rd user dynamic (200kg applied statically to rail) 100kg test mass arrested Peak arrest force: 8.8kN Deformation of anchor: 147mm Slippage of traveller: 45mm	EUropa.	PASS (Europe) Lto
(1) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	toup (Europe) Ltd	See note 4	્	P _{CO}

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BS 8610:2017	BS 8610:2017	DESULT COMMENT	UoM	PASS / S
4.5.3.3 Type D2 – fall arrest – non- load-limiting, Type D3 – rope access and work positioning – non- load-limiting & Type D5 – rescue – remotely or self- operated – direct attachment – non- load-limiting	A.5.3.3.3 When tested for dynamic performance with the load applied via the anchor point on each traveller to: a) the rigid anchor line at the centre of the longest span permitted by the manufacturer; b) extremity anchors: c) intermediate anchors, where fitted; d) corner anchors, where fitted; and e) entry/exit line fittings and joints, cantilevers, and end stops, where fitted, the anchor system shall hold the load clear of the ground.	Position: Extremity anchor 1st user dynamic 100kg test mass arrested Peak arrest force: 9.3kN Deformation of anchor: 11mm Slippage of traveller: 105mm Residual strength dynamic 100kg test mass arrested 2nd user dynamic (100kg applied statically to rail) 100kg test mass arrested Peak arrest force: 9.6kN Deformation of anchor: 0mm Slippage of traveller: 0mm 3rd user dynamic (200kg applied statically to rail) 100kg test mass arrested	± 40 mm See note	PASS (Europe) Ltd
Sa _{Ma} G	⁹⁰ ⊗)	Peak arrest force: 11.1kN Deformation of anchor: 0mm Slippage of traveller: 0mm See note 4	(Europa)	Spc Lid
63	Sup (Europe) Ltd	SPC0352363 Sayfa Group (Europe)	3	SPC0350

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Group (E)	Spcna	Sayra		
BS 8610:2017 CLAUSE / TEST	BS 8610:2017 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / S
4.5.3.3 Type D2 – fall arrest – non-	4.5.3.3.4 When tested for static strength with	Position: Centre of longest span	352	P63
load-limiting, Type D3 – rope access and work	the load applied via the anchor point on each traveller to:	27kN sustained for 3 minutes without failure		
positioning – non- load-limiting &	a) the rigid anchor line at the centre of the	See notes 3 & 4	9	Pales
Type D5 – rescue – remotely or self-	longest span permitted by the manufacturer;	(Europe),	± 50 N	Group Group
operated – direct attachment – non-	b) extremity anchors: c) intermediate anchors,	Position: Extremity anchor	See note	PASS
load-limiting	where fitted; d) corner anchors, where fitted; and	27kN sustained for 3 minutes without failure		
(Pe) Ltd	e) entry/exit line fittings and joints, cantilevers,	See notes 3 & 4	Sayfa Gra	
	and end stops, where fitted,	\(\tag{\tag{\tag{\tag{\tag{\tag{\tag{	04/	Eyro
SA	the anchor system shall hold the load.			ope) 4

ADDITIONAL INFORMATION / NOTES

CO3532	Grou.	2
ADDITIONAL	NFORMATION / NOTES	ayfa Gra
Table 2 – Additiona	I uncertainty of measurement information (see no	ote 1)
CLAUSE S	TEST / COMPONENT	UoM (see note 1)
J. S. C.	Temperature	± 0.99 °C
Corrosion	Fall-out rate of collected solution	± 2.25 ml (± 0.04 ml/hour for 24 hours)
resistance	Specific gravity of collected solution	± 0.0010 g/ml
resistance	pH value of collected solution	± 0.1 %
	Angle of sample mounting (if applicable)	± 1.44°

Note 1 - 'UoM' denotes estimated Uncertainty of Measurement for stated test results. This uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately

Note 2 - Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Note 3 – Static strength testing carried out by manually increasing loading, therefore rate of stressing / crosshead velocity as per EN 364: 1992 Clauses 4.1.2.1 & 4.1.2.2 cannot be accurately determined (see VG11 recommendation for use sheet CNB/P/11.023 dated 25.10.2007)

Note 4 – Testing carried out under job reference SPC4304X3D2

* * * * END OF REPORT

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Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Uncertainty of Measurement and Decision Rules

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.