

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019

Item #: UFH10211G

Description: KStrong® Kapture™ Elite 5-Point Full Body Harness, Dorsal D-ring, Front D-ring, TB Legs (ANSI)

Brand Name: KStrong

Manufacturer: KStrong

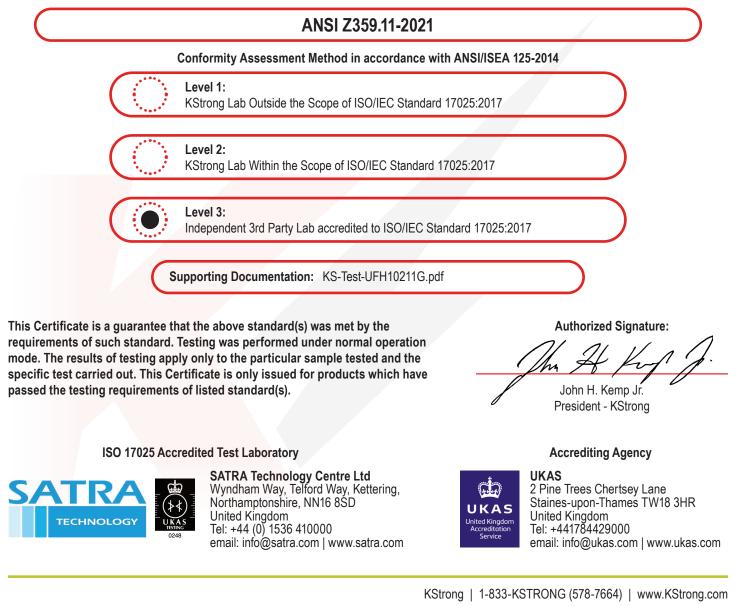
Address: 150 N. Radnor Chester Road, Suite F200, Radnor, PA 19087

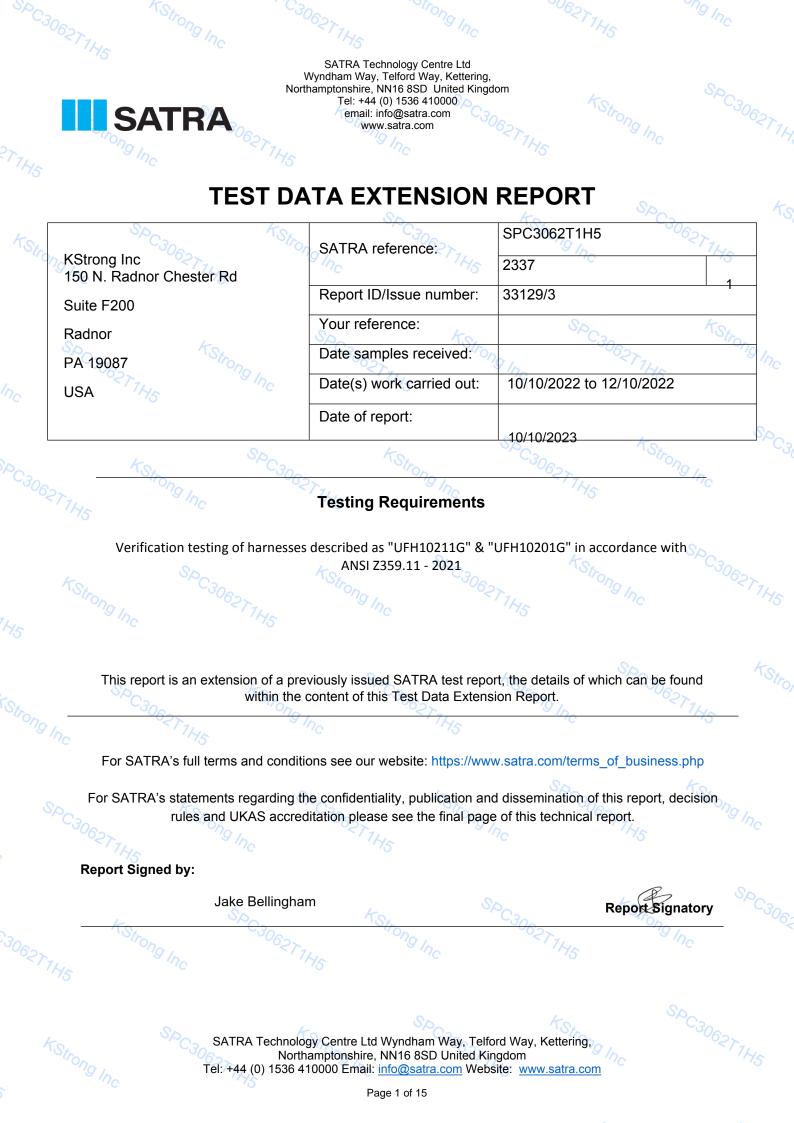
Declaration #: DOC-UFH10211G Declaration Date: 10/10/2023

Additional Items Conforming Under this Declaration (If Applicable):

> UFH10211G(S-M) UFH10211G(M-L) UFH10211G(L-XL) UFH10211G(XL-2XL) UFH10211G(2XL-3XL)

KStrong declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):





Technical Report ³⁰⁶271H5

Work Requested

SATRA

Samples of full body harness (FBH), described as "UFH10211G", were received by SATRA on the 15th August 2022, for testing in accordance with ANSI Z359.11 - 2021

The harnesses have 2 different available variants, with the differences listed below: "UFH10201G" is identical to "UFH10211G", but does not include a sternal attachment "UFH10201G(GB)" is identical to "UFH10201G but in grey "UFH16201GP" is identical to "UFH10201G" with black webbing and blue strips with non-removable padding "UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding "UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding "UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding "UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding "UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding

This report is an extension of SPC0327212 /2208 /1, dated the 31st of October 2023

Conclusions

		- Q.	F
Sample Reference	Standard Soc	Clause / Property	Pass / Fail
277,	Dhg Inc	3.1 Design Requirements	Not fully assessed
		3.2.1 Attachment Element Requirements – Dorsal	PASS
UFH10211G	ANSI Z359.11 - 2021	3.2.2 Attachment Element Requirements – Sternal	PASS
		3.3 Component Requirements	Not fully assessed
KStrong	C306271	NStrong Inc 30627145	Inc Solar

Testing 1/2

Testing was carried out in accordance with ANSI Z359.11 – 2021 between the 10th & 12th October 2022

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in Strong Inc Strong Inc individual test clauses

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: Strong Inc ³⁰⁶271H5

KStrong Inc 33129/3





Page 2 of 15





SATRA SATRA SOG2T 1145 **Technical Report**

Test Results

Table 1 – Testing of harness described as "UFH10211G" in accordance with ANSI Z359.11 – 2021

L	S,o,	TSX	C30	-00 _{62×}	
^A Stro	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	15
	3.1 Design Requirements	3.1.2 FBHs shall permanently incorporate a dorsal attachment element.	A dorsal attachment element is permanently included	PASS	St.
C	SPC3062774	FBHs may contain any combination of other elements but limited to those described in section 3.2	The harness also includes a sternal attachment element	PASS	urong Inc
Circ	4.5	FBHs shall permanently include a load bearing sub-pelvic strap, except those described in 3.1.14	The full body harness includes a load bearing sub-pelvic strap	PASS	Spc
06	27145	3.1.3 Shoulder straps on FBHs shall come together at the dorsal location and either cross, be connected by webbing that	Shoulder straps come together at the dorsal location and cross over each other	PASS	
	Kstrong	meets the requirements of section 3 or attach with a connector meeting Z359.12	SPC3062T1HE KStrong Inc	8'PC,	3062T1H5
5	" Inc	3.1.4 FBHs shall permanently incorporate a waist belt or back strap, or other means of controlling the separation of the	The harness permanently includes a back strap to control the separation of the shoulder straps on the back of the harness	PASS	K.
tra	SpC30	shoulder straps on the back of the FBH	SPC3062T- KStrong In-	3062T1HA	Stre
" Ong	Inc	When the FBH is mounted onto the test torso, some portion of the back strap or waist belt shall be located between datum	The back strap is located between datum points G & K	PASS	
		levels G and K	to, Spczo	TStr	
	SPC3062T1H5	3.1.5 Modular components or assemblies for FBHs designed for the removal of different attachment elements shall meet the specific attachment element	Not applicable – no modular components	N/A	ng Inc
		requirements of section 3 while	to Sports		SPC306
l	tox	attached to a compatible FBH	KStrong Inc 180	ong Inc	-306
0627	KStron 145	9 Inc C3062T1H5	19 Inc 145	"/C	

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: 'Strong Inc ³⁰⁶271H5

KStrong Inc 33129/3

Page 5 of 15

SATRA SATRA SOG2T 145 Strong Inc

Technical Report

ANSI Z359.11 – 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	
3.1 Design So Requirements (continued)	3.1.5.1 Modular components shall be attached to the harness using connections that meet section 3 and those components shall have a minimum breaking strength of 5,000 pounds	Not applicable – no modular components	N/A	10
SPC3062T1H	(22.2kN). If buckles are used, they must meet ANSI Z359.12 and at least be used in pairs	Not assessed	Not _G assessed	rong
to	3.1.5.2 When attached to the FBH, an attachment element extender shall be no longer than 24 inches (610mm).	Not applicable – no attachment element extenders	N/A	,
PT1H5	3.1.6 For FBHs integrated into a vest or other garment, the design of the garment shall allow visual inspection of the FBH	Not applicable – harness is not integrated into a garment	N/A ^C	
KStrong Inc	3.1.7 All FBHs shall be equipped with a fall arrest indicator that will deploy during dynamic testing defined in section 3.2, when attached to the Dorsal element.	Fall indicators are included on the dorsal and deploy during the dynamic testing defined in section 3.2	PASS	⁹⁶ 27
SPC30	All indicators shall be located where they can be visually inspected	The indicators can be visually inspected	PASS	
^{DC30622}	3.1.7.1 If fall arrest indicators are present on other attachment elements of the FBH, they must activate when tested in accordance with 4.3.6	Not applicable – indicators are not present on any other attachment elements	N/A	gin
-062T7H5	3.1.8 FBH with attached connecting subsystem combinations shall meet the requirements of ANSI Z359.11 for the FBH and the appropriate Z359 component standard for	Not applicable – no attached connecting subsystem combinations	N/A	Sp
nStroj H5	the attached sub-system(s) when tested respectfully	"Ong Inc "SZT145	¹⁹ Inc	

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: KStrong Inc 3062771H5

The KStrong Inc 33129/3

Page 6 of 15

SATRA SATRA SOG2T 1145 Strong Inc

Technical Report

	ANSI Z359.11 – 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
tro	3.1 Design Requirements (continued)	3.1.9 All FBHs shall include retainers (keepers) or other components which serve to control the loose ends of straps	Retainers are present to control the loose ends of straps	PASS 7
	SPC3062T1H	3.1.10 All FBHs shall include at least one lanyard parking attachment element having a disengagement load of not more than 120 pounds (0.5kN).	2 lanyard parking elements are present Triangular attachment disengagement load: 0.05kN Circular attachment disengagement load: 0.05kN	PASS 🕂
5	ts	3.1.11 It shall not be possible to remove elements of the FBH that support the shoulders/upper torso from those that support the legs/lower torso	The upper torso cannot be removed from the lower torso	PASS
	- THS	3.1.12 All single point attachment elements shall be located laterally within 2 inches (51mm) of the vertical centreline of the FBH	The dorsal and sternal attachment elements are located within 51mm of the vertical centreline of the harness	PASS
	NStrong Inc	3.1.13 Sternal attachments that consist of two elements intended to be connected at a single point for use shall be fixed and not adjustable vertically.	Not applicable – sternal attachment consists of only 1 element	N/A
	Sp _{C30}	Both elements shall be clearly marked to only be used together	SPC3062T1H	3062T1H5
	Inc	3.1.14 FBHs that do not include a sub-pelvic strap shall incorporate both frontal and	Not applicable – harness includes a sub- pelvic strap	N/A
•	SPC3062T1H5	sternal attachment elements, an integral waist belt and leg loop suspension straps, two at the front and two at the rear, all integrally attached to the waist belt	KStrong Inc SPC3062T1H	KStro

SATRA Report Reference: SPC3062T1H5 2337 KStrong Inc Report ID/Issue number: 3062771H5

1th KStrong Inc 33129/3

Page 7 of 15

SATRA T

Technical Report

Ŭ	ANSI Z359.11 – 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	t
TStro	3.2.1 Attachment Element	3.2.1 The dorsal attachment element shall be located as shown in figure 4 of ANSI	The dorsal attachment element is located as shown in figure 4, and is used as the fall arrest attachment	-3062T1H3	5
	Requirements - Dorsal	Z359.11, and used as the fall arrest attachment, unless the application allows the use of an alternate attachment as defined	Sp.	PASS	
	SPC3062TTL	in 3.2.2 or 3.2.3 3.2.1.1 The dorsal attachment may also be used in travel restraint or rescue	The dorsal attachment may also be used in travel restraint or rescue	o PASS	rong Inc
2		3.2.1.2 When supported by the dorsal attachment during a fall, the design of the FBH shall direct load through the shoulder	During a fall, the load is directed through the shoulder straps supporting the user around the thighs	PASS	SpC
- ³⁰⁶	RS, 27145	straps supporting the user around the thighs 3.2.1.3.1 When tested for dynamic feet first, the FBH shall	Feet first drop: Dummy restrained by FBH and held for 5 minutes	"ONG INC	
		 meet the following criteria: a) FBH shall not release the test torso b) FBH shall support the test 	Angle of dummy from vertical: 7.9° Fall arrest indicator deployed and is visible:	Sp _{C30}	
6	KStrong Inc	 torso for a period of 5 minutes post fall c) FBH shall support the test torso, post fall at an angle not greater than 30° to 	Yes FBH stretch: 220mm	PASS	0277145
rong	Sp _{C30}	 d) At least one fall arrest indicator shall be deployed visibly and permanently FBH stretch shall not exceed 18 inches (457mm), or less if stated by manufacturer 	SPC3062T71H5 KStrong Inc	062T1H5	KStro

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: 33129/3 Page 8 of 15

SATRA SATRA SOG2T 145 Strong Inc

Technical Report

5				
ANSI Z359.11 – 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	
3.2.1 So Attachment Element	3.2.1.3.2 When tested for dynamic head first, the FBH shall meet the following criteria:	Head first drop: Dummy restrained by FBH and held for 5 minutes	-3062T1H5	
Requirements – Dorsal	 FBH shall not release the test torso 	Angle of dummy from vertical: 23.2°		
(continued)	 b) FBH shall support the test torso for a period of 5 minutes post fall 	Fall arrest indicator deployed and is visible: Yes	PASS	
SPC306277	 c) FBH shall support the test torso, post fall at an angle not greater than 30° to 	62T1H5 KStrong Inc	6	י פי
14	vertical	10		
	 At least one fall arrest indicator shall be deployed visibly and permanently 	Sp to	D	S
2627745 KS	3.2.1.3.3 When tested for static strength feet first, the FBH shall meet the following criteria:a) FBH shall not release the	Feet first static: 3,600 pounds (16kN) sustained for 1 minute in the direction of the neck without release	rong Inc	
175	test torso	Slippage through adjusters: 0mm		
tox	 b) Slippage through any adjuster shall not exceed 1 inch (25mm) c) The strap to which a buckle 	Eyelet adjusters included: Yes Eyelet adjuster tearing distance: 55mm – eyelet tore into adjacent eyelet, but did not tear	SPC3062	?7;
Kstrong Inc	and eyelet adjuster is fitted shall not tear further than the eyelet adjacent to the one through which the	Any sign of tearing of straps: No tearing of straps other than from the eyelet adjusters	PASS	
SPC3	 tongue of the buckle originally passed or 1 inch if there is no adjacent eyelet d) Except for the straps of the buckle and eyelet adjusters, 	SPC3062T1HS SpC3	062T1H5	H
s Inc	straps shall not allow any signs of tearing			
80-	3.2.1.3.4 When tested for the fall arrest indicator test, at least one fall arrest indicator shall deploy visibly and permanently	Both indicators deployed at a force lower than 4kN	PASS	,
C30625		TTLL INGINC STHS		nc

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: KStrong Inc

1th KStrong Inc 33129/3

3062771H5

Page 9 of 15

SATRA SATRA SOG2T 1145 Strong Inc

Technical Report

ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	
3.2.2 Attachment Element Requirements - Sternal	3.2.2 The sternal attachment element shall be located as shown in figure 4 of ANSI Z359.11, and used as an alternative fall arrest attachment	The sternal attachment element is located as shown in figure 4 and is used as an alternative fall arrest attachment element	< 171HS	5
SPC3062T1H	in applications where the dorsal attachment is determined to be inappropriate by a competent person and where there is no chance to fall in a direction other than feet first	SPC3062T1A5	PASS	rong In
	3.2.2.1 The sternal attachment may also be used in travel restraint or rescue	The sternal attachment element can also be used in travel restraint or rescue	PASS	Sc
43	3.2.2.2 When loaded at the sternal attachment to arrest a fall, the design of the FBH shall direct load through the shoulder straps supporting the user around the thighs	During a fall, the load is directed through the shoulder straps supporting the user around the thighs	PASS	
KStrong Inc	 3.2.2.3.1 When tested for dynamic feet first, the FBH shall meet the following criteria: a) FBH shall not release the test torso b) FBH shall support the test torso for a period of 5 	Feet first drop: Dummy restrained by FBH and held for 5 minutes Angle of dummy from vertical: 29.9° Fall arrest indicator deployed and is visible: N/A – no sternal fall indicators present	SPC30	62T1K
Sp _{C3}	 minutes post fall c) FBH shall support the test torso, post fall at an angle not greater than 50° to vertical 	FBH stretch: 190mm	PASS	43
	 per the requirements of 3.1.7.1, at least one fall arrest indicator shall be deployed visibly and permanently e) FBH stretch shall not exceed 18 inches (457mm), or less if stated by 	SPC3062T7H5		
SINC SPC3062T1H5 KStron	 d) If incorporated into the FBH per the requirements of 3.1.7.1, at least one fall arrest indicator shall be deployed visibly and permanently e) FBH stretch shall not exceed 18 inches (457mm), or less if stated by manufacturer 	KStrong Inc SPC3062T7H5	ts	itron

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: KStrong Inc 3062771H5

1th KStrong Inc 33129/3

Page 10 of 15

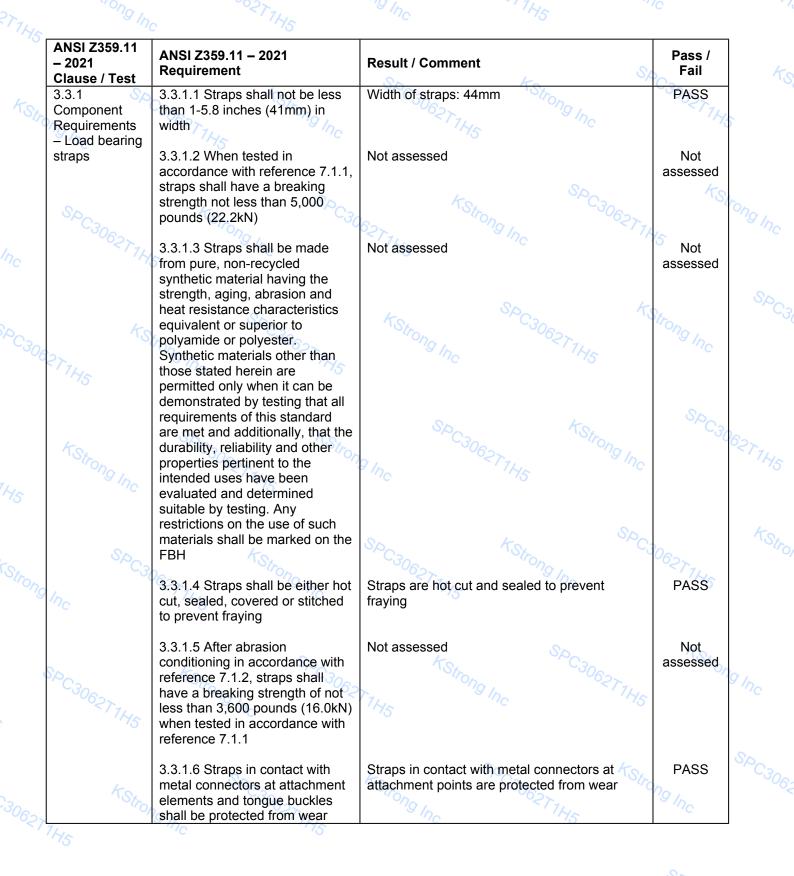
SATRA Sha

Technical Report

ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / So Fail
3.2.2 Attachment Element Requirements	3.2.2.3.2 When tested for static strength feet first, the FBH shall meet the following criteria: a) FBH shall not release the	<i>Feet first static:</i> 3,600 pounds (16kN) sustained for 1 minute in the direction of the neck without release	-3062T145
– Sternal (continued)	 test torso b) Slippage through any adjuster shall not exceed 1 inch (25mm) c) The stress to which a buckle of the stress to which a buckle of the stress to which a buckle of the stress to s	Slippage through adjusters: 0.5mm Eyelet adjusters included: Yes Eyelet adjuster tearing distance: 1mm	KStron
-~C3062T1H	 c) The strap to which a buckle and eyelet adjuster is fitted shall not tear further than the eyelet adjacent to the one through which the tongue of the buckle 	Any sign of tearing of straps: No	746 PASS
43, 927745	 originally passed or 1 inch if there is no adjacent eyelet d) Except for the straps of the buckle and eyelet adjusters, straps shall not allow any signs of tearing 	KStrong Inc	KStrong Inc
	3.2.2.3.3 if the harness is equipped with a fall arrest indicator for the sternal	Not applicable – no fall indicators present	SPC3062
KStrong Inc	attachment element, when tested for the fall arrest indicator test, at least one fall arrest indicator shall deploy visibly and permanently	g Inc Societ Tits Societ Inc	N/A
SPC3U	NG2T1H5 KStrong Inc	SPC3062T1H5	C3062T7145
SPC306277145	KStrong Inc	KStrong Inc SPC3062T1H	KStrong In
			Sr trong Inc
KStron 1H5	s Inc		SPC3062T7K

SATRA

Technical Report



SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: Strong Inc

33129/3

Page 12 of 15

SATRA T

Technical Report

ANSI Z359.11 – 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	
3.3.1 Component Requirements	3.3.1.7 The spacing between hole centres of adjacent eyelets for buckle and eyelet type	Distance between hole centres of adjacent eyelets: 42mm	< r1H2	5
 Load bearing straps (continued) 	adjustors used in FBHs shall be no more than 2 inches (50mm) and not less than 1-1/8 inches (29mm)	to, Soca	PASS	to.
3.3.2 Component Requirements – Thread and	3.3.2.1 All thread shall be of the same material as the load bearing straps	Not assessed	Not Agassessed	ng l
stitching	3.3.2.2 All stitching shall be lock stitched and be securely backstitched to prevent	Stitching is lock stitched and back stitched to prevent unravelling	PASS	S
to		KStrop	orrong in	
PT145	3.3.2.3 All stitching used to connect load bearing members shall be contrasting in colour to the load bearing straps of the	Stitching is of a contrasting colour to facilitate visual inspection	PASS	
	FBH to facilitate visual inspection	SPOR KSK	Sp _{C3}	
3.3.3 Component Requirements – Connecting components	3.3.3.1 All connecting components, except soft loop attachments, used for FBH construction shall conform to ANSI Z359.12	Not assessed	Not assessed	0277
Sp _{C30}	3.3.3.2 Soft loop attachments may be used in place of metal connecting components at all FBH attachment element locations	Not applicable – no soft loop attachments	N/A	1
PC30627-	3.3.3.3 Soft loop attachments shall be constructed using material that meets the requirements of section 3.3.1, excluding 3.3.1.1	Not applicable – no soft loop attachments	N/A	9 Inc
145	3.3.3.4 Soft loop attachments shall include protection from wear over the entire inside surface	Not applicable – no soft loop attachments	N/A	Spc

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: 33129/3

1Ho . Page 13 of 15

Technical Report ³⁰⁶²⁷¹⁴⁵

ADDITIONAL INFORMATION / NOTES

SATRA

Table 2 – Additional ur	ncertainty of measurement information (see r	note 1) K_{Strop}	t,
Clause / Test	Test / Component	UoM	45
Dynamic, feet first 3.2.1.3.1	Applied force (to test sample)	± 0.855%	6
3.2.2.3.1 3.2.3.1.1	Angle measurement	± 0.161°	
Dynamic, head first	Applied force (to test sample)	± 0.894%	Stron
3.2.1.3.2	Angle measurement	± 0.161°	ng Inc
Static, feet first 3.2.1.3.3 3.2.2.3.2	ing Inc	11 _C 115	
3.2.3.1.2 3.2.4	Applied force (to test sample)	± 50N	Spc
3.2.5 3.2.6 3.2.7	SPC30627-	C3062TTHE	
Dynamic, indicator	n _c H5		
test 3.2.1.3.4 3.2.2.3.3	Free fall distance	± 2.05mm	
Static, indicator test 3.2.1.3.4 3.2.2.3.3	Applied force (to test sample)	± 314N	3062T1HE
Component requirements 3.3.1	Determination of length	± 2.05mm	.0

Note 1 - 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 Strong Inc

SATRA Report Reference: SPC3062T1H5 2337 Report ID/Issue number: KStrong Inc 3062T1H5

KStrong Inc 33129/3





Page 14 of 15

Conditions of Use

Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties provided that they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Accreditation

Where the UKAS logo is included on the test report then tests marked \neq fall outside the UKAS Accreditation Schedule for SATRA. Where no UKAS logo is included on the test report then none of the tests reported are covered by SATRA's UKAS Accreditation.

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.