KSTRONG®
UNRIVALED SAFETY.

COMPETENT PERSON INSPECTION CHECK LIST
IMPAXX HORIZONTAL LIFELINE SYSTEMS

CPIC

Systems: IMPAXX CONSTEEL Horizontal Lifeline System · IMPAXX LONGSPAN Horizontal Lifeline System · To be completed by a competent person other than the user at intervals not exceeding 12 months.

Product Details

Site / Location:		**System:**	IMPAXX CONSTEEL / IMPAXX LONGSPAN
System / Line Number:		**System / Line Length (m):**	
Date of Installation:		**Installed by:**	
Number of Users:		**Number of Spans:**	
Mounting:	Floor / Wall / Overhead	**Substrate:**	Concrete / Steel
Cable:	7x7 / 7x19 / 1x19	**Terminations:**	Swaged / Swageless
Environment:	Indoor / Outdoor / Corrosive	**Last Inspected on:**	
Inspector:		**Inspection Date:**	

Inspection Checks

Checking Area	Inspection Points	Guidelines	Remarks
1) System, Signage & Application			
Site Plan & ID (UIM E3.1, E3.2)	i) Installed system matches site plan	Check the installed system matches the site plan and post-installation documentation, and that every system is ID-tagged.	
	ii) System ID-tagged		
Assembly (UIM E3.3)	i) Assembled & installed per UIM	Check all system components are assembled and installed exactly as per the UIM, with no unapproved components or alterations.	
System Information Sign ANZ115100H (UIM E3.4)	i) Present & legible	Sign must be fitted at the system entry, legible, and record system type, number of users, system / line number, line length and date of installation.	
	ii) Up to date		
Application – System Type (UIM E3.5)	i) CONSTEEL components only	CONSTEEL: max 4 users per system / 4 per span, AFF112100 shock absorber, M12 extremity anchors. LONGSPAN: max 7 users per system / 7 per span, AFF114112 shock absorber, AFF113710(16) M16 extremity anchors, AFF114113 tensioner at both ends, straight line only – no corners, Variable Intermediates, joiners or swageless fittings. Mark N/A for the system type not installed.	
	ii) LONGSPAN components only		
2) Extremity Anchors & Fixings			
Extremity Anchors (UIM E3.6)	i) Correct type	CONSTEEL: AFF113710 M12. LONGSPAN: AFF113710(16) M16. Check for cracks, deformation, corrosion or signs of overload. In concrete, line load must act in shear on the fixings – tension (pull-out) mounting is not permitted.	
	ii) Cracks / deformation / corrosion		
	iii) Mounted in shear (concrete)		
Steel Fixings (UIM E3.7.1)	i) Correct type	SS 316/304, Bolt Type A2/A4-70, SS flat washers to each bearing surface and lock nuts. M12 to 50Nm, M16 to 70Nm, with at least two full threads protruding. Mark N/A for concrete fixing.	
	ii) Installed & tightened		
Concrete Fixings (UIM E3.7.2)	i) Correct type & tightened	Chemically bonded SS studs (e.g. Hilti RE 500). Proof load each stud/bolt in direct pull-out and hold for 3 minutes, with no movement or deformation: M12 Extremity Anchors & Corners 13kN; M12 Intermediates 9kN; M16 LONGSPAN Extremity Anchors 24kN (UIM 3.2.1). Record results. Mark N/A for steel fixing.	
	ii) Proof load test		

Checking Area	Inspection Points	Guidelines	Remarks
3) Shock Absorber, Tensioners & Terminations			
In-Line Shock Absorber (UIM E3.8)	i) Correct type	CONSTEEL: AFF112100. LONGSPAN: AFF114112. Any sign of activation, including partial or full detachment of the keeper plate – fail. Shock absorber must be replaced and the entire system recertified before use.	
	ii) Signs of impact / keeper plate detachment		
Tension Indicator (UIM E3.9)	i) Ring rotates under light pressure	Red indicator disc must rotate under light finger pressure. If it spins freely with no applied pressure the system is over-tensioned.	
	ii) Not over-tensioned		
Tensioner Configuration (UIM E3.10)	i) Required tensioners fitted	CONSTEEL: tensioner at one end; at both ends where the system has more than two corners or exceeds 100m total length. LONGSPAN: AFF114113 at both ends of the cable.	
Swageless Fittings – CONSTEEL only (UIM E3.11.1)	i) Installed correctly	All strands and poke pin seated below the internal housing threads; housing torqued to 50Nm onto the forked termination. Swageless fittings must never be used in LONGSPAN. Mark N/A if not used.	
Swaged Fittings (UIM E3.11.2)	i) Installed correctly	Six swage impressions per fitting, each 11.1mm ± 0.2mm across the flats. No cracks, deformation or cable slippage at the ferrule / swage tube.	
	ii) Cracks / slippage		
Cable Joiners – CONSTEEL only (UIM E3.12)	i) Installed correctly	Six swage impressions at each end, each 11.1mm ± 0.2mm across the flats. Joiners must never be used in LONGSPAN. Mark N/A if not used.	
4) Cable			
Cable Type (UIM E3.13)	i) Correct cable	CONSTEEL: Ø8mm SS 7x7 or 7x19 (7x7 for overhead installations). LONGSPAN: Ø8mm SS 1x19 only.	
Cable Condition (UIM E3.14)	i) Broken strands	Inspect the full cable length for broken, damaged or kinked strands, corrosion, birdcaging or wear.	
	ii) Damage / corrosion		
	iii) Kinks		
Line of Deflection (UIM E3.15)	i) Unobstructed	Cable must not be obstructed in its line of deflection, or contact any other structure or surface, along its full length.	
5) Intermediates, Corners & Spans			
Intermediates, Spacers & Corners (UIM E3.16)	i) Corrosion	Inspect all intermediate brackets, Overhead Spacers and Corners for corrosion, cracks, defects or signs of overloading or impact.	
	ii) Cracks / defects		
	iii) Overloading / impact		
Variable Intermediates – CONSTEEL only (UIM E3.17)	i) Bend angle & radius	Maximum 45° cable deviation each side (90° total per Variable Intermediate), minimum bend radius 188mm, shuttle passes unobstructed. Mark N/A if not used.	
Overhead Spacers (UIM E3.18)	i) Fitted where required	Where the Overhead Shuttle is used, every AFF111510(OH) Overhead Intermediate and AFF111510(CB) Variable Intermediate must be paired with an AFF111510(S) Overhead Spacer. Mark N/A if not overhead.	
Cable Spans & Inclination (UIM E3.19)	i) Spans within maximum	CONSTEEL: 5m – 15m. LONGSPAN: single span 5m – 35m; multi-span 5m – 30m. Cable installed within 15° along the roof pitch and 25° across it.	
	ii) Inclination within limits		

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6) Shuttles & Stoppers			
Shuttle Travel (UIM E3.20)	i) No catch / hang points	Move the shuttle along the full length of the system, through all intermediates and corners, to ensure there are no catch or hang points.	
Shuttles (UIM E3.21)	i) Correct type	AFF119025 Shuttle where cable is within reach; AFF119028 Overhead Shuttle where cable is out of reach and/or an SRL is connected. Gate must open, close and lock correctly with the prescribed locking carabiner. 1 user per shuttle.	
	ii) Deformation / cracks / corrosion		
	iii) Gate & carabiner function		
Cable Stoppers (UIM E3.22)	i) Present & secure	AFF114191 / AFF114192 fitted to limit shuttle travel onto tensioners and cable terminations.	
7) Structure, Records & Lifespan			
Anchorage Structure (UIM E3.23)	i) Condition of structure	Check the surrounding anchorage structure for deterioration, damage or modification. Structure capacity and condition must be re-evaluated by a competent person and/or qualified engineer to recertify the system for another year of service. If in doubt, refer to a qualified structural engineer.	
	ii) Re-evaluated for recertification		
Environment (UIM E3.24)	i) Corrosive environment	Coastal, marine, industrial, chemical or high-humidity environments – inspection frequency to be increased beyond 12 months, as determined by the competent person.	
Fall Events (UIM E3.25)	i) No fall arrested since last inspection	If a fall has occurred, the system must be removed from service, tagged or isolated, and recertified by a competent person before use.	
Records (UIM E3.26)	i) Equipment record complete	Product identification, installation details, previous inspections, proof load test results, repairs and next inspection date recorded.	
Lifespan (UIM E3.27)	i) Within 10 years from installation	All-metal product, no textile components. Lifespan may be extended year to year, conditional on passing this annual competent person inspection. Effective lifespan is also limited by the condition of the anchorage structure and the fixing method, e.g. chemical adhesive.	
	ii) Extension granted for next 12 months (Yes / No)		

Result & Sign-off

Result:	☐ Pass – fit for service until next inspection ☐ Fail – tagged out, sent for servicing / repair ☐ Retired
Next Inspection Due:	
Lifespan Extended To:	

Note:- If any non-conformity is found, tag the system out of service and contact KStrong. A system that has arrested a fall, or whose In-Line Shock Absorber shows any sign of activation, must be removed from service until the shock absorber has been replaced and the entire system recertified by a competent person.

Inspection Date: _____ **Inspector's Name:** _____ **Inspector's Signature:** _____

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