GRAVITAS™ SAFETY

FALLGUARD™

PRODUCT INFORMATION MANUAL

CLASS – A (FULL BODY HARNESS)

PURPOSE & LIMITATIONS

The Full Body Harness, Model Class – A is to be used only to arrest fall of workers, working at a height, using the back D-Ring as attachment elements.

WARNING

1. Do not alter and/or add anything in the harness as it might make it unsafe for the wearer.
2. Do not secure the safety line to an anchorage point that is below the level of line's attachment to the harness.
3. Do not make a loop of less than 15mm diameter while looping around a structural member and hooking it on it's own length.
4. The Safety Harness is made up of materials that might be susceptible to attack by a group of chemicals when used in acidic or basic environment. In case of any doubt in such application, please consult the manufacturer.
5. If the product becomes damaged, it should be immediately replaced. Never use the damaged product. Repairing is permitted, provided that, if in doubt always consult the manufacturer before attempting in a repair.

VISUAL INSPECTION TO BE FOLLOWED BEFORE USE

- Inspect the harness for rupture of the webbing, seams, buckles, D-ring and I.D. plate. Do not use the harness in case of any rupture or defectiveness.
- Ensure the compliance with recommendations for use as applicable to the combination with other components of the fall arrest system and specified on the identification card for the fall arrest system on component concerned.

CLEANING AND DRYING INSTRUCTIONS

In case of minor soiling, wipe the full body harness with cotton cloth or soft brush. Do not use any abrasive material. For intensive cleaning, wash the harness at a temperature of approx. 30°C, by using a neutral detergent (pH±7). The washing temperature should not exceed 60°C. Do not use acid or basic detergents. The harness should be allowed to dry by itself and be kept away from open fire or any other source of heat. Avoid direct sunlight and ironing.

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STORAGE & MAINTENANCE INSTRUCTIONS

The harness should be stored in a cool and dry, properly designed cabinets, which allow ventilation. It should be returned to such storage immediately after use. It should not be subjected to direct sunlight or acidic/basic environment.

PERIODIC EXAMINATION

It is recommended that the harness is inspected & examined by an expert at lease once a year. The observation should be recorded in the history sheet. Frequent inspection can reduce the possibility of accidents. Inspect the following:

a. Webbing : Inspect for cuts, cracks or abrasion or any damage due to deterioration, contact with heat, acid or other corrosives
b. Hooks : Inspect for damaged or distorted hooks or faulty springs
c. Sewing : Inspect for broken, cuts or worn-out thread
d. Ropes : Inspect for any damage or signs of wear

HISTORY SHEET

It is recommended that the harness should be inspected and examined by an expert for any damages or failure if the need arises, but at least once a year. The observations should be recorded in the table below. In case such damages are observed, the full body harness should be replaced immediately. The full body harness shall only be used with a fall arrest system according to IS 3521:1999. The instructions for use for the individual components are to be observed.

SERVICE AND INSPECTION RECORD

Date	Damage Observed	Repair Measure	Comments

IDENTIFICATION

1. Type
2. Date of Purchase
3. Identification Mark
4. Date of First Use
5. Batch No.
6. Name of User
7. Year of Manufacture
8. Comments

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DOC. NO. :	FSEL/LAB/TR/REV.00	**BATCH NO. :**	057
REPORT NO. :	FSEL/TR/FP/0097	**SERIAL NO. :**	001 to 010
DATE OF TEST :	09-06-2022	**TESTED HARNESS NO. :**	001

Testing of Industrial Safety Belt & Harness Ref. "FSE-FBH-016" of Class A in accordance with IS 3521 : 1999

TEST		REQUIREMENT	RESULT/ COMMENTS	PASS/ FAIL
1	Design & Construction			
		Webbing and thread shall be made from synthetic fibres having characteristics consistent with those of polyamide and polyester.	Satisfactory	PASS
		Sewing threads shall be physically compatible with and of a comparable quality to that of the webbing.	Physically Compatible	PASS
		Sewing threads shall be of a different colour from that of the webbing in order to facilitate visual inspection.	Satisfactory	PASS
		Straps to be present in the pelvic and shoulder areas.	Present	PASS
		Straps shall not migrate from position and shall not loosen by themselves.	Satisfactory	PASS
		The harness shall contain the body and shall distribute suitably the dynamic forces and post-fall arrest suspension forces over the body.	Satisfactory	PASS
		The harness shall not create any supplementary risk and shall offer an acceptable degree of comfort.	Satisfactory	PASS
		It shall be possible to carry out a visual inspection of all the components of the harness.	Satisfactory	PASS
2	Width and Strength of the Straps			
		Webbing Width > 40mm	Webbing Width = 44mm	PASS
		Shoulder Strap > 20mm	Shoulder Strap = 44mm	PASS
		Belt & Harness Webbing BS > 2000 Kgf	Belt & Harness Webbing BS = 2637 Kgf	PASS
3	Material			
3.1	Webbing	Webbing shall be made from nylon or other synthetic material such as polyester.	Polyester	PASS
		The material shall have uniform thickness and width.	Satisfactory	PASS
		Material used for webbing & Ropes shall Pass Flammability test as per Annex A	Pass	PASS

3.2	Threads for Sewing	Threads shall have similar physical and chemical properties to the material being sewn.	Satisfactory	PASS
		No. of Stitches > 3 per cm	No. of stitches = 3 to 4 per cm	PASS
		Threads shall be of a contrasting shade or colour to the webbing.	White thread used on coloured webbing	PASS
3.3	Rivets and Washers	All rivets and washers shall be made from copper	Not Applicable	PASS
3.4	Life Line	Life Line shall be made of Nylon, Polyester or synthetic fibre	Poplypropylene	PASS
3.5	Working at Height	Life Line BS ≥ 2000 Kgf	Life Line BS = 2000 Kgf	PASS
		Length of Lanyard ≤ 3m	1.8MTR	PASS
3.6	Metal Components	Metal Components shall be forged or solid in such a manner that the joints are not visible and the joined part of the metal does not impair the strength or quality.	Forged	PASS
		Surface shall be smooth and free from any manufacturing defects, burrs or uneven surface.	Satisfactory	PASS
		Metal fittings shall be coated by chromium plating or powder coating.	Chormium plated	PASS
		Thickness of Chromium plating > 8 microns	14 microns	PASS
		The part of the metal fittings matching with the webbing shall be smoothly finished, rounded and designed to prevent damage to the webbing.	Satisfactory	PASS
		Hooks, clamps or other fastening and holding devices shall be of similar quality and properly treated or plated.	Satisfactory	PASS
		Design of the hooks shall be self-closing type and if pressure is exerted accidentally on the tongue or latch, shall not disengage.	Satisfactory	PASS
4	Requirements			
4.1	Strength	Main load bearing parts ≥ 2000 Kgf	Main load bearing part (D-Ring) BS = 2300 Kgf	PASS
4.2	Attachment Means	No loop made of textile should be present	Not present	PASS
		Buckles other than those meeting the prescribed requirements of IS standards shall be of a smaller size of clear distinction	No other buckles used	PASS
4.3	Performance Tests	The attachment of metal parts, load bearing components and the making of splices and joints shall pass the performance tests as per Annexure B.	No slippage, damage or any other deterioration recorded after the prescribed performance tests	PASS

4.4	Static Load	The harness shall withstand a 15kN load without releasing the dummy, and the test is applied in turn to each attachment element as per Annexure C.	The harness with stood 15kN load and dummy was not released	PASS
4.5	Dynamic Load	The harness shall not release the dummy or lose its shape when subject to free fall as per Annexure D.	The dummy was neither released nor lost its shape and found to be in head-up position when twice subjected to 4 meter drop tests.	PASS

CONCLUSION:

The samples of harnesses, ref. "FSE-FBH-016" of Class A have been tested in accordance with IS 3521 : 1999 & found to be satisfactory.

****** END OF REPORT*****

QUALITY INSPECTOR

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QUALITY *HEAD*