



## PRODUCT INFORMATION MANUAL

### FULL BODY HARNESS (FBH-043)

#### **PURPOSE & LIMITATIONS**

The Full Body Harness (FBH-043) can be used for multiple purposes like Fall Arrest, Climbing, and Work Positioning applications. It is provided with 1 Dorsal D - Ring on the backside for Fall Arrest, 2 Frontal D - Rings at Chest Level for Climbing, and 2 Lateral D - Rings at Waist Level for Work Positioning.

#### **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 its 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 least 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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|---|--|----------------------------|
|  | <b>FALLGUARD SAFETY EQUIPMENT LLP</b>            |                            |
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|                       |                    |                             |            |
|-----------------------|--------------------|-----------------------------|------------|
| <b>DOC. NO. :</b>     | FSEL/LAB/TR/REV.00 | <b>BATCH NO. :</b>          | 059        |
| <b>REPORT NO. :</b>   | FSEL/TR/FP/00099   | <b>SERIAL NO. :</b>         | 001 to 010 |
| <b>DATE OF TEST :</b> | 10-06-2022         | <b>TESTED HARNESS NO. :</b> | 001        |

**Testing of Industrial Safety Belt & Harness Ref. "FSE-FBH-043" in accordance with EN 361:2002 and EN 358:1999**

| 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 = 2300 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   | NA   | NA   |
| 3.5 | Working at Height  | Life Line BS $\geq$ 2000 Kgf   | NA   | NA   |
|     |                    | Length of Lanyard $\leq$ 3m  | NA   | NA   |
| 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.  | Chromium 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 $\geq$ 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-043" have been tested in accordance with EN 361:2002 & EN 358:1999 & found to be satisfactory.

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

  
**QUALITY INSPECTOR**

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**QUALITY HEAD**