



TECHNICAL DATASHEET

ECO1

Full Body Harness

FULL BODY HARNESS WITH ENERGY ABSORBING LANYARD AND SCAFFOLDING HOOK

STANDARD: CERTIFIED AS PER IS 3521(Part 1): 2021, IS 3521(Part 2): 2021, IS 3521(Part 5): 2021



Product Introduction:

- Full Body Harness is a premium safety gear engineered to deliver unmatched protection at height. Designed for superior comfort and performance, it evenly distributes fall arrest forces across the body and offers secure attachment points for lanyards, lifelines, and other fall protection equipments—ensuring workers to stay safe, confident, and productive in challenging environments.

Features:

- The harness comes with one dorsal D-ring and Two textile chest attachment loops for fall arrest.
- Adjustable straps at chest and thighs.
- Fall Indicator to facilitate easy inspection in case a fall has occurred ever.
- Integrated twin rope energy absorbing lanyard with scaffolding hooks.
- Retro reflecting webbing for high visibility.
- Dual colour type webbing for easy orientation.
- Special Feature:** This model is available with Polypropylene rope lanyard (Colour: White).
- Chest-mounted lanyard parking points for safe and secure storage when lanyards are not in use.



Product Specifications:

Model	: ECO1
Webbing Material	: Synthetic Fibre (Polyester)
Webbing Width	: 44 +/-1 mm
Webbing Breaking Strength	: 23 kN
Safe Working Load Capacity	: 100 kg
Stitching Thread Material	: High tenacity virgin multifilament polyester
Stitch Thread Colour	: White
Metal Components	: High quality alloy steel, zin plated, free from any sharp edges
Harness Colour	: Black and Green with dual reflective lines
Lanyard Materials	: Polyamide/Braided
Weight	: 844 gm Approx. (Only Harness)



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Benefits:

- **Light Weight Design:** High strength & Light weight material makes it more user friendly.
- **Retro Reflecting Webbing:** Reflective webbing provide high visibility in low light area.
- **360° Support:** Distributes impact forces evenly to minimize injury in the event of a fall.
- **Durable Construction:** Made from high-strength webbing and corrosion-resistant edge free hardware for reliability in harsh environments.
- **Compliance:** Meets relevant safety standards.

Applications:

- **Construction & Scaffolding:** Provides reliable safety during the construction period of infrastructure and scaffolding tasks.
- **Fall Arrest Systems:** Protects workers from falls during elevated work.
- **Rescue & Evacuation:** Essential for retrieval and emergency scenarios.
- **Tower Climbing:** Enables safe climbing for utility and energy sectors.

Industries:

The Harnesses are essential for creating a temporary anchorage point for maintaining a safe and efficient working environment in any manufacturing, construction, utility related industries as follow.



Pharmaceutical



Chemical



Automobile



Food & Breweries



Marine



Transportation



Steel



General
Manufacturing



Oil & Gas



Power



Construction



Heavy
Manufacturing



Agriculture



FMCG

Safety Information:

- Full body harness should be used with appropriate fall arrest device with energy absorption facility.
- Users of fall-protection equipment should not exceed 100 kg of total mass (including tools and equipment).

Usage Instruction:

- Inspect before use
- Ensure all buckles, straps, and D-rings are securely fastened.
- Follow manufacturer instructions for donning, adjustment, and maintenance.
- Replace harness immediately if it has been involved in a fall or shows signs of wear.
- Only trained and authorized personnel should use fall protection harnesses.
- Never modify the harness in any way.

Storage:

- Always store the harness in a dry, well-ventilated area. Avoid keeping it in direct sunlight, high heat, or extreme temperatures, as this can weaken materials or cause fading. For added protection, store and transport the harness in its original packaging to prevent from contamination or damage.