



## TECHNICAL DATA SHEET

### PROTON 4000 SERIES HDPE Helmets

#### Product Introduction:

- Udyogi Proton helmet combines advanced safety and superior comfort, making it ideal for various demanding environments.
- The High Density Polyethylene (HDPE) shell ensures outstanding impact resistance and durability, while also offering superior heat resistance to safeguard the wearer in high-temperature conditions.
- Designed to meet IS 2925:1984 and EN 397:2012 standard, it ensures maximum protection for the wearer in various high-risk environments



#### Features:

- This helmet features a robust dome shaped shell made of High Density Polyethylene (HDPE), providing exceptional impact resistance and durability.
- The breathable plastic & textile cradle materials and secure fit ensure long-lasting comfort and stability, making it ideal for extended use.
- Adjustable chin strap for customized fit and comfort.
- 4-point plastic / textile suspension with slip fit or atchet fit adjustment.
- Aesthetic look with smooth finish – solid colored resin for a permanent, no-chip, no-peel finish.

#### Benefits:

- **Cost-Effective:** Choose proper helmets for proper application. The helmet's HDPE construction is highly impact resistant, making it suitable for use in harsh environment
- **Regulatory Compliance:** Assists in meeting safety and environmental regulations by providing protection against falling objects.
- **Safety Improvement:** The textile suspension system with a ratchet fit mechanism allows for easy and precise adjustment, ensuring a secure and comfortable fit. Breathable textile materials reduce pressure points and improve comfort, making it ideal for extended use.
- **Ease of Use:** The slip-fit mechanism is straightforward and quick to adjust, making it user-friendly.
- **Recyclable:** Prevents hazardous substances from spilling onto the ground or into waterways

#### Udyogi



**Product Specifications:**

**Model:** PROTON 4000 Series  
**Construction:** HDPE (High Density Polyethylene)  
**Ventilation:** Non-vented  
**Variants:** Plastic Slip fit (4000L);  
 Textile Slip fit (4001 L); Textile Ratchet fit (4001 LRX)  
**Weight:** : 350 grams  
**Color:** White, Yellow, Blue, Red, Violet, Green,  
 Orange, Sky Blue, Grey, Pink  
**Peak siz** 38 mm  
**Accessories slot size:** 30 mm.  
**Internal vertical clearance:** 36 mm.  
**Wearing height:** 96 mm.  
**Circumference of Headband:** 540 mm. – 620 mm.  
**Cradle width:** 20.51 mm.  
**Chin strap width:** 19.85 mm.  
**Packaging:** 36(ratchet fit); 50(slip-fit) pcs per carton  
**Standard:** IS 2925:1984 and EN 397:2012

**Variants**



**Textile Ratchet Fit**



**Plastic Slip fit**



**Textile Slip fit**



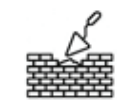
**Textile Ratchet fit**

**Applications :**

- The HDPE shell provides excellent protection against falling objects which ensures the wearer's safety in case of an accident.
- HDPE is resistant to various chemicals, adding an extra layer of protection in environments where exposure to hazardous substances is possible
- The helmet can withstand different weather conditions without degrading, ensuring consistent performance in diverse outdoor environments.

**Industry :**

These helmets are utilized for their protective and practical features in various industries such as



Construction



Cement Industry



Heavy Manufacturing



Automobile



Power



General Manufacturing



Steel



Marine



Railway



Oil & Gas



Logistic



Food & Breweries



FMCG



Pharmaceutical



### **Safety Information :**

- When worn and maintained properly, safety helmets do a great job of protecting your head from a single impact.
- Excessive discoloration of the shell color of the surface may indicate a loss of strength. Such helmets should be discarded
- All components, shells, harnesses, headbands, and accessories should be visually inspected at least weekly.
- Helmets with sound shells but with damaged, excessively dirty, or defective harness components should be withdrawn from service and the complete harness and cradle replaced.

### **Usage Instructions :**

- Place the helmet squarely on your head, ensuring it covers the top of your forehead and sits level.
- Turn the ratchet knob present at the back side until the helmet fits snugly and comfortably.
- Adjust the chin strap length to ensure a tight fit without causing discomfort.
- Turn the ratchet knob to the left and loosen the chin strap to put the helmet off.

### **Storage :**

- Can be stored and transported in their original cartons at ambient temperature (0°C to + 30°C)
- Shell may be stored in the dark for up to 3 years
- Do not store in direct / high heat or sunlight as this may distort the suspension