

Hospital Bed Mattress – Foam Type (Standard Specification)

1. Dimensions

- **Size:**
 - Standard Bed: **192 cm (L) × 83 cm (W) × 10 cm (H)**

2. Construction

- **Type:** Three-layer or single-piece high-density PU foam mattress.
- **Foam Density:**
 - Minimum **32–40 kg/m³** for core layer.
 - Optionally, a softer top layer (25–28 kg/m³) for patient comfort.
- **Compression Hardness:** 120–150 N (for durability and support).
- **Resilience:** ≥ 50% recovery after compression.

3. Cover Material (Rexine / PU-coated Fabric)

- **Material:** Medical-grade **Rexine** or **PU-coated polyester fabric**.
- **Properties:**
 - **Waterproof and washable**
 - **Antimicrobial / antifungal coating**
 - **Fire retardant (FR treated)**
 - **Breathable and non-toxic**
- **Color:** Sky blue / hospital green / navy blue.
- **Closure:** Heavy-duty **zipper** or **Velcro** on one side for foam removal.

4. Stitching & Finish

- **Edges:** Double-stitched with nylon thread for durability.
- **Seams:** Heat-sealed or lock-stitched to prevent fluid ingress.
- **Base:** Non-slip or textured fabric for better grip on bed frame.

5. Hygiene & Maintenance

- Cover should be **easy to clean** with disinfectant or soap solution.
- Should **resist fluids, stains, and odors**.
- Foam and cover should withstand **at least 100 cleaning cycles** without deterioration.

6. Warranty

- Minimum **3-year warranty** against foam sagging, tearing, or cover failure.

Hospital Pillow Rexine Cover – Technical Specifications

1. Dimensions

- **Size:**
 - Standard pillow: **66 cm (L) × 45 cm (W)**.

2. Material

- **Type:** Medical-grade **Rexine / PU-coated fabric / PVC-laminated polyester fabric**
- **Thickness:** Minimum **0.035 – 0.05 cm**
- **Weight:** Approx. **350 – 450 GSM**
- **Base Fabric:** Polyester / cotton blend with PVC or PU coating

4. Construction & Finish

- **Stitching:** Double-stitched with nylon/polyester thread for durability.
- **Closure:** Heavy-duty **zipper or Velcro** flap for easy removal.
- **Edges:** Heat-sealed or lock-stitched to prevent fraying and leakage.
- **Finish:** Smooth, soft-touch, and **non-sticky surface** for patient comfort.

5. Hygiene & Cleaning

- Should withstand **hospital-grade disinfectants, detergents, and 70% alcohol cleaning**.
- Resistant to stains, body fluids, and odor absorption.
- Should maintain flexibility and color even after **100 cleaning cycles**.

6. Color Options

- Preferred: **Sky Blue / Hospital Green / Navy Blue**.
- Color should be uniform, fade-resistant, and glossy finish optional.

7. Warranty

- Minimum **3 year** against material failure, peeling, or stitching defects.

Hospital Stretcher Mattress – Technical Specification

1. Dimensions

- **Length:** 190 cm $\pm$ 2 cm
- **Width:** 55 mm $\pm$ 2 cm
- **Thickness:** 5 cm $\pm$ 1 cm

2. Construction

- **Type:** Single-piece or two-fold mattress.
- **Foam Type:** High-density PU foam.
- **Foam Density:** Minimum **40 kg/m³** for durability and firm support.
- **Compression Hardness:** 150 $\pm$ 20 N.

3. Cover Material (Rexine / PU-coated Fabric)

- **Material:** Medical-grade **PVC-coated or PU-coated polyester fabric**.
- **Properties:**
 - Waterproof and washable
 - Antifungal and antibacterial coating
 - Fire retardant (FR treated as per IS:15741 or equivalent)
 - Tear resistant and flexible

4. Finish and Construction

- **Cover Closure:** Heavy-duty **zipper or Velcro** on one side for easy removal.
- **Stitching:** Double-stitched with nylon thread, lock-sealed edges.
- **Base:** Non-slip or textured bottom surface to avoid sliding during patient transfer.
- **Corners:** Rounded for easy placement on stretcher top.
- Standard hospital colors: **Blue / Green / Grey**.

6. Hygiene & Cleaning

- Should withstand **routine disinfection and alcohol-based cleaning**.
- Resistant to **blood, body fluids, and common cleaning agents**.
- Retains flexibility and shape after **at least 100 wash cycles**.

7. Warranty

- Minimum **3-year warranty** for foam and cover integrity.