

Cold Room Panel Buyer's Checklist – Download Free PDF

A printable checklist covering insulation type, panel thickness, fire rating, hygiene requirements, and installation considerations before purchasing.

1. PROJECT PARAMETERS & ENVIRONMENTAL PROFILE

Proposed Room Dimensions	L: _____ W: _____ H: _____ mm	Target Internal Temp	_____ °C
Ambient Environment Max	_____ °C	Floor Loading Profile	☐ Foot Traffic ☐ Pallets ☐ Forklift

2. TECHNICAL CORE & PANEL SPECIFICATIONS

- ☐ **Insulation Core Material Selection**
Evaluate the core material based on application requirements: Choose Polyisocyanurate (PIR) for premium thermal efficiency and strict insurance fire-compliance, or Expanded Polystyrene (EPS) for basic cost-effective ambient storage structures.
- ☐ **Panel Insulation Thickness**
Verify that structural thickness correctly aligns with the thermal envelope demand: Ensure a minimum of 80mm to 100mm for standard chillers (+1°C to +4°C) and 120mm to 150mm+ for deep commercial walk-in freezers (-18°C to -25°C) to eliminate heat bypass.
- ☐ **Structural Fire Rating & Insurance Certification**
Confirm certified fire safety parameters. Request explicit documentation proving compliance with standards such as LPS 1181 or FM (Factory Mutual) approvals, which are heavily mandated by commercial property insurers.
- ☐ **Hygiene, Cladding & Food-Safe Finishes**
Ensure the interior cladding meets strict commercial hygiene rules. Select food-safe PVC-coated galvanized steel, fiberglass-reinforced plastic (FRP), or Grade 304 stainless steel capable of handling high-pressure chemical washdowns.
- ☐ **Installation, Cam-Lock Systems & Structural joints**
Check the structural joint configuration. Prefer high-torque interlocking cam-lock connections over slide-together tongue-and-groove joints to achieve airtight perimeter seals and significantly reduce site assembly time.

3. PROFESSIONAL ENGINEERING & QUOTATION ASSESSMENT

Bespoke Cold Room Construction Support:

Planning a new cold room layout or updating internal insulated structures? Get precise load calculations, F-Gas planning metrics, and bespoke panel configurations from the engineering specialists at **Cold Room Plus**.

PROJECTS DESK
+44 7445 699 925