

Energylite Metal Wall Application Specification

Energylite Insulation: (25/40/50/75/100)mm of density 24kg/m³

Energylite Insulation: (25/40/50)mm of density 47.5kg/m³

Energylite Insulation: (25/40/50)mm of density 64kg/m³

Energylite Insulation: (25)mm of density 80kg/m³

- **Performance criteria:**

K-value: 0.036 W/mK for 24kg/m³ (ASTM C518)

K-value: 0.032 W/mK for 47.5kg/m³ and 64kg/m³ (ASTM C518)

Combustibility: Non-combustible (SANS 10177 Part 5)

Flame Spread Index: 10 (ASTM E-84)

Smoke Development Index: 5 (ASTM E-84)

- **Specification- Application to metal walls.**

Install (25/40/50/75/100)mm non-combustible Energylite glasswool insulation (blanket/batts) of density (24/47.5/64/80)kg/m³ (with woven black glasswool cloth liner). Fit securely with closely butted joints, leaving no gaps. Energylite is impaled over welded pins and secured in place using proprietary washers or studs and nuts. Use 3 lines of fixings at maximum 600mm centres with 2 lines 45mm from the edge of the (blanket/batt) and 1 line at the centre of the batt.

- **Specification- Application to Masonry walls.**

Install (25/40/50/75/100)mm non-combustible Energylite glasswool insulation (blanket/batts) of density (24/47.5/64/80)kg/m³ (with woven black glasswool cloth liner). Fit securely with closely butted joints, leaving no gaps. Energylite secured in place using proprietary screws, washers or studs and nuts. Use 3 lines of fixings at maximum 600mm centres with 2 lines 45mm from the edge of the (blanket/batt) and 1 line at the centre of the batt.

- **Specification- Application to ground floors.**

Install two layers of 25mm non-combustible Energylite glasswool insulation batts of density 64kg/m³. Fit securely with closely butted joints, leaving no gaps and with all joints staggered. Lay a damp proof membrane onto the concrete surface bed. Install Energylite batts onto the damp proof membrane. Cover Energylite with waterproof building paper/polythene. Install a concrete floating floor and finish as required.

- **Specification- Application to suspended Floors.**

Install 25mm non-combustible Energylite glasswool insulation batts of density 64kg/m³. Fit securely with closely butted joints, leaving no gaps and with all joints staggered. Install Energylite batts onto the concrete floors. Cover Energylite with waterproof building paper/polythene. Install a concrete floating floor and finish as required.

To be read in conjunction with Glasswool Handling Instructions in the installation methodology.