



# STANDARD FOR MORTAR SKIP/TUB BASIC & FORKLIFTABLE UNITS

NO: T.E.L. - 597 - Rev 1-02

## 1.0 SCOPE:

This standard specifies the requirements for thermoplastic mortar skips for use in the construction industry for the discharge and use of Trowel Ready Mortar (TRM). This standard applies to skips that are open and not subject to any over pressure and having a capacity in excess of 200 litres.

The purpose of the standard is to define the material used, requirements, tests, type tests and production quality control tests.

Companies manufacturing to the standard must be to I.S. EN 9002: 1994 certified or equivalent.

## 2. NORMATIVE REFERENCE

This Standard incorporates by dated or undated reference from other publications. These 'normative' references subsequent amendments to, or revisions of, any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated reference the latest edition of the publication referred to applies.

ISO	1133 - 1981	Plastics Determination of the Melt Flow Rate of Thermoplastics
ISO	1183	Plastics: Method of determining density
ISO	R527	Determination of Tensile Properties
ISO	175	Plastics: Determination of the effects of liquid chemicals, including water
ISO	1872 - 1986	Plastics: Test specimen preparation
EN	45020	General terms and their definition concerning standardization and related activities

## 3. DEFINITION

Mortar skip; A container that retains its design shape for the purpose of carrying mortar when empty without any external support.

## 4. DESIGN REQUIREMENTS

**4.1 *Lifting:*** The mortar skip should be suitable for lifting by means of a forklift when used with appropriate equipment and in accordance with manufacturers instructions.



# STANDARD FOR MORTAR SKIP/TUB BASIC & FORKLIFTABLE UNITS

NO: T.E.L. - 597 - Rev 1-02

**4.2 Supports:** The mortar skip should be supported about its top rim by means of a reinforced plastic rim to give added lateral stability to the unit.

**4.3** The mortar skip should be suitable for lifting and travelling about a construction site by means of a forklift.

**4.4** The skip should be of such a design so as to prevent the stagnation of residue mortar. It should also be suitable for the use with plastic liner bags. If the surface becomes punctured in any way it should not be possible for leaked mortar to be retained in the unit.

## **5. MATERIAL PROPERTIES:**

### **5.1 Density - (Raw materials)**

The use of regrind shall not be permitted.

Determined in accordance with ISO 1183 method A or D. A single resin polymer shall have a density not less than 920kg/m<sup>3</sup> and not greater than 934kg/m<sup>3</sup>.

### **5.2 Melt Flow Rate - (Raw materials)**

The Melt Flow Rate is measured in accordance with ISO 1133 Section 4, must be a maximum of 5g/10min and a minimum 2g/10min. Test to be carried out on raw material.

### **5.3 Weather Resistance**

The material used in the manufacture of the body shall be ultra violet light stabilized.

### **5.4 Optional Steel Plate Guide:**

A steel plate guide may be incorporated at the top rim of the tub to assist guidance of forklift entry and to give longer life to the unit by preventing corner damage from forklift entry.

### **5.5 Fabrication of Steel Guide:**

All fabrication of steel components are to be out of pressed steel 2mm to BS 1387. Any welding of components to be in accordance with EN287-1.



# STANDARD FOR MORTAR SKIP/TUB BASIC & FORKLIFTABLE UNITS

NO: T.E.L. - 597 - Rev 1-02

## 5.6 *Top Lip for Forkliftable units:*

If it is intended that the product be offered as a neck lift by forktruck the minimum width of the underside of the neck should be 95mm to ensure full coverage of the fork leg.

## 6. *MORTAR SKIP*

### 6.1 *Capacity and Tolerance*

- a. When tested the ambient temperature shall be  $15^{\circ}\text{C} \pm 5^{\circ}\text{C}$ . The skip shall be filled to overflow (brimful) with water, wait ten minutes fill to overflow, and measure the capacity to an accuracy of  $\pm 1\%$ .
- b. The stated capacity shall be the measured capacity  $\pm 5\%$  stated in litres.

### 6.2 *Visual inspection*

On visual inspection of the skip there should be no bubbles, blisters, or other defects that could cause a hole or fracture.

### 6.3. *Weight*

The body of the skip should not be less than 17kgs. Tolerance in these weights shall be  $+20\%$ ,  $-10\%$ .

### 6.4 *Wall thickness*

The minimum wall thickness on any point of the sides or base shall not be less than 4mm. A margin of  $10\%$  is permitted.

### 6.5 *Test frequency*

- (i) Weight: The weight of the skip as defined in 6.3 shall be tested every 3 months from samples randomly picked from production.
- (ii) Capacity: As defined in 6.1 is a type of test that is completed prior to certification, once off and certified by a National Weights & Measures Authority as a type test.
- (iii) Visual inspection: Every skip
- (iv) Wall thickness: Once every 3 months.



# STANDARD FOR MORTAR SKIP/TUB BASIC & FORKLIFTABLE UNITS

NO: T.E.L. - 597 - Rev 1-02

## 7.0 **MARKINGS:**

The following information should be moulded into each skip:

Capacity  
Year of Manufacture  
Standard mark no.  
Load capacity  
Name of manufacturer.  
Max Weight when empty.

## 7.1 **PRINTING;**

Each unit to have a unique Serial Number Hot Foil Stamped into the plastic to  
A minimum height of 12mm (when requested by client.)  
Each unit to have the capacity to top rim clearly printed in colour on it

## 8.0 **PRODUCTION AND QUALITY CONTROL**

The tests described in section 6.5 of this standard should be carried out at the frequency indicated above during production, quality control, and records maintained within a quality system. This system should be audited and certified by a Certified External Authority in accordance with CEN regulator EN 45020.

## 9.0 **HANDLING AND USE**

The manufacturer should supply instructions for the handling and use of the Mortar Skip.