

TEST REPORT



Title: Framemaster Letter Plate – Evaluation
to EN 13724:2002

Report Number: WTE/08/014a

On behalf of UAP Limited
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Introduction

It was requested that WTE Ltd carry out an evaluation of the UAP Framemaster letter plate to EN 13724:2002. The letter plate was classified as Type 4 according to the standard. The results are presented below.

It was requested that evaluation to cl: 5.3.5 (fire protection) should not be carried out at this time.

Samples

Samples of the UAP Framemaster letter plate FMB1248G (gold) were supplied for the full evaluation. Additional samples with alternative finishes were supplied for corrosion assessment. These were: FMB1248B (black), FMB1248MPSS (mirror), FMB1248W (white), FMB1248SA (satin aluminium). It was noted that the fixing method of these later samples varied from that of the gold sample. Thus, additional tests were carried out on the fixings. We designated the fixings: type A and type B respectively. The type A fixings had the enhanced lug diameter of approximately 8.6mm.

Photographs of these samples are shown in Appendix A.

Results

The letter plates were evaluated in accordance with EN 13724: 2002 Type 4 letterplates. The references below refer to the respective clauses of that standard.

5.1 Components

Fixing instructions were supplied with each individual product enabling installation in accordance with the standard.

The aperture was fitted with a flap both internally and externally.

5.2 Dimensions

The internal dimensions of the letterplate aperture were 241.5mm by 33.5mm with an approximate radius of 6mm at the corners.

This complies with a size 2 aperture as defined in the standard.

5.2.2 Gauge Mail

It was possible to push gauge mail (size C4, 24mm thick) through the aperture without folding or damaging it.

5.3.1 Installation height of aperture

The following text was part of installation instructions.

“For ergonomic reasons the centreline of the aperture should be at a height between 700mm and 1 700mm measured from the delivery floor level. In special cases such as groups of apertures the range may be extended but shall be between 400mm and 1 800mm.”

5.3.2 Safety

There were no sharp edges on any of the aperture components that could be reached when inserting a letter post item.

5.3.3 Opening force of the flap

The opening force of the internal flap was 3.1 N

The opening force of the external flap was 3.3 N

The standard states that these values shall not exceed 8N

5.3.4 Closing of Flap

Both internal and external flaps were self closing before and after the corrosion evaluation.

5.3.5 Fire protection

The letterplate was not evaluated against local planning laws and building regulations as part of this work.

5.5.1 Corrosion

The letterplates were evaluated to EN 1670:2006 grade 3 (96 hours). Results were as follows:

FMB1248G (gold)

Letterplate – no concerns.

Fixings – red corrosion to 40% area on non significant surface.

Pass to EN 1670 grade 3.

FMB1248B (black)
FMB1248MPSS (mirror)
FMB1248W (white)
FMB1248SA (satin aluminium)
Letterplates – no concerns.

Bolt through fixings - red corrosion to 50% area on non significant surface.

Pass to EN 1670 grade 3.

Optional screw fixings - red corrosion to 100% area.

Fail to EN 1670 grade 3

5.5.2 Water penetration

A water penetration test was carried out in accordance with the standard (Spray test to Figure 2).

There was some penetration of water past the external flap into the letterplate aperture.

There was minimal penetration of water through the letterplate assembly.

Delivered letter post items would not be affected by water penetration. – Pass to EN 13724.

5.6.2 Type 4 theft prevention

The fitting instructions specified that; If the distance between the bottom of the aperture and the receiving floor level is at least 680mm, the maximum aperture height may be 40mm and a security attachment shall not be required.

5.6.4 Protection against opening of doors and windows – type 4

The fitting instructions specified that; a letterplate shall not be fitted within 400mm of a door or window lock unless an auxiliary locking device is also fitted more than 400mm from the letterplate. If the door or window can be locked from the inside with a key and the key withdrawn, these requirements do not apply.

5.6.5 Security Type 4

Both types of fixings could not be removed from the outside.

As the aperture required in the door was in excess of 40mm, the letter plate required a load of 1.2kN applied to each of the fixings for 10 seconds.

	Load applied	
Type A fixing	1.3 kN	Pass
Type A fixing	1.3 kN	Pass
Type B fixing	2.0 kN	Pass
Type B fixing	2.0 kN	Pass

Thus, both types of fixing met the requirements of the standard.

As the short side of the aperture behind the flap was less than 40mm, it was not necessary to apply a load to the flap.

7.0 Marking and labelling

The marking and labelling of the product conformed to the standard.

Summary

An evaluation of the Framemaster letter plate was carried out in accordance with EN 13724:2002 (type 4, letter plates).

It was requested that evaluation to cl: 5.3.5 (fire protection) should not be carried out at this time. We have been informed that this aspect of the standard has been evaluated separately.

With the exception of the above clause, Framemaster letter plates with type A and type B fixings complied with the standard.



Report authorised by:

Dr Martin White
Director

Date: 22 October 2008

REPORT ENDS

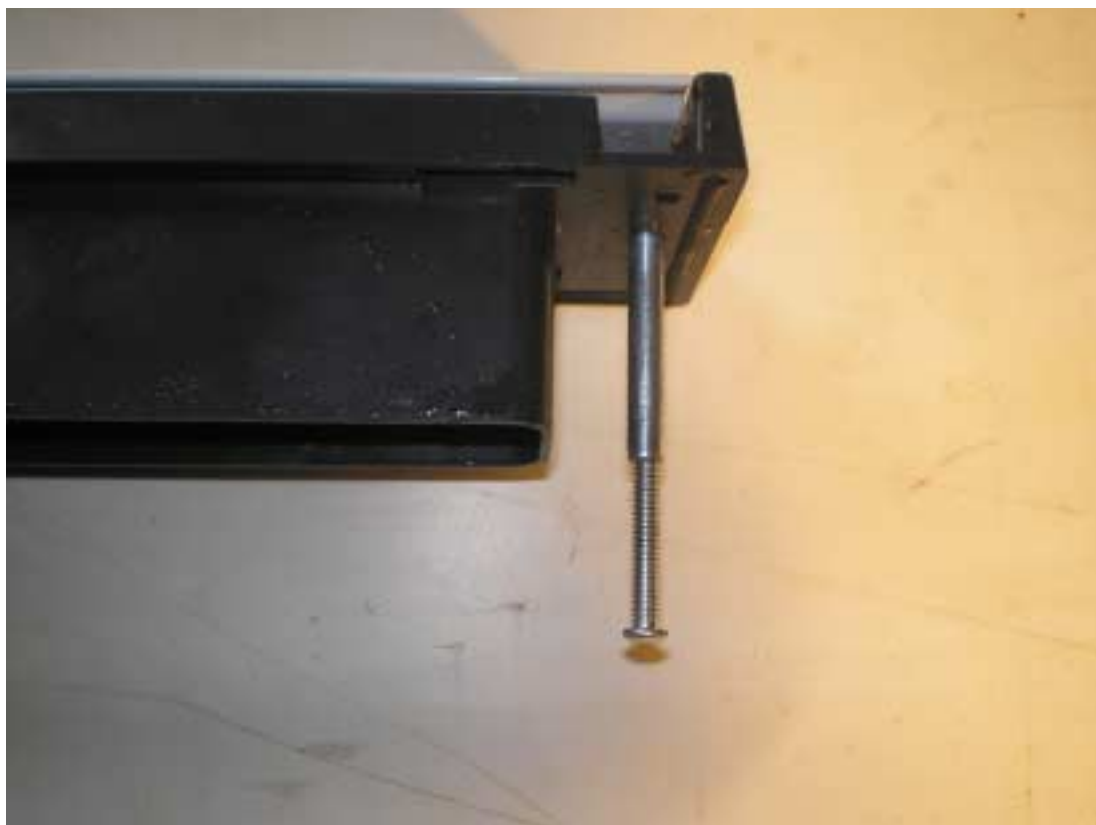
Appendix A – Photographs



UAP Framemaster Letter Plate (Gold)



Type A Fixing



Type B Fixing



Corrosion of Type A Fixing



Corrosion of Type B Fixing