

## UI FTP 3 "FIRE DOOR"

### Part A. Revision History

Version no.	Approval date	Implementation date when applicable
Rev.2 (July 2010)	22 July 2010	1 January 2011
Rev.1 (July 2006)	21 July 2006	1 January 2007
New (Dec 2004)	26 December 2004	1 July 2005

#### • Rev.2 (July 2010)

##### .1 Origin of Change:

- Suggestion by IACS member within Comprehensive review of the FTP Code
- Other - MSC/Circ. 1273 and MSC.1/Circ.1319

##### .2 Main Reason for Change:

The revision of UI FTP3 has been deemed necessary to cover also very large doors exceeding small increase as defined in the UI FTP3 and MSC/Circ.1273. In the new revision the text has been put in line with the MSC/Circ 1319 and both hinged and sliding fire doors have been included.

##### .3 List of non-IACS Member classification societies contributing through the TC Forum and/or participating in IACS Working Group:

Nil

##### .4 History of Decisions Made:

- August 2008 – Statutory Panel approved IACS TASK FORM A and FORM 1 for the revision of UI FTP3
- September 2008 – GPG approved IACS FORM A and FORM 1 for the above
- November 2008 – PT submitted the Rev.2 for IACS UI FTP 3, there was no qualifying majority to approve the UI and the Panel decided to prepare a submission to FP 53 (paper 53/4/5).
- February 2009 – The FP had a positive view of the IACS submission and decided to draft an MSC Circular on the basis of the IACS Paper FP 53/4/5.
- May 2009 – MSC 86 approved the draft MSC circular by issuing MSC.1/Circ.1319
- June 2009 – Statutory Panel decided that IACS UI FTP 3 should be revised also based on MSC.1/Circ.1319 and including both hinged and sliding fire doors.
- February 2010 – PT submitted the final proposal as Rev.2 for IACS UI FTP 3 to the Panel

##### .5 Other Resolutions Changes:

Nil

## **.6 Dates:**

Original Proposal: *3 April 2008 Made by the Statutory Panel*  
Panel submission to GPG: *29 June 2010 (Ref. 6140\_PSe)*  
GPG Approval: *22 July 2010 (Ref. 6140\_IGm)*

- **Rev.1 (Jul 2006)**

Revised in accordance with the FTP code resolution A.754 (18).

See TB document in Part B.

- **New (Dec 2004)**

Developed based on the discussion within WP/FP in 2003 in its 34<sup>th</sup> meeting.

See TB document in Part B.

## Part B. Technical Background

List of Technical Background (TB) documents for UI FTP3:

Annex 1. **TB for New (Dec 2004)**

See separate TB document in Annex 3.



Annex 2. **TB for Rev.1 (Jul 2006)**

See separate TB document in Annex 2.



Annex 3. **TB for Rev.2 (Jul 2010)**

See separate TB document in Annex 1.



## **Technical Background**

### **UI FTP 3: FTP Code sub-section 5.3 and Annex 1, Part 3 – Test for “A”, “B”, and “F” class divisions**

It is quite clear from section 2.3.1 of Resolution A 754(18) that fire doors are to be tested to the maximum size of the door leaf for which approval is to be sought.

However some Classification Societies (Administrations as well and testing laboratories) have accepted doors with dimensions 10% to 15% larger than tested.

This issue was raised within the WP/FP in 2003 and addressed at its 34<sup>th</sup> meeting. It was agreed that a proposal would be circulated for consideration. The criteria, and the fact that such doors should only be individually assessed and accepted for a specific project were agreed.

The last sentence was also agreed to link this interpretation to an ongoing job in the IMO Sub committee FP on what can be understood as very large fire doors.

Submitted by WP/FP+S Chairman.

## **Technical background to UI FTP 3 rev.1 (July 2006)**

The last sentence of the existing text reading "Larger doors would need to be tested or calculated." was expanded in order to clearly indicate the criteria to be adopted for allowing the use of fire doors having dimensions larger than the relevant prototype tested in accordance with the Fire Test Procedures Code, specifically resolution A.754(18).

Submitted by Statutory Panel Chairman  
10 July 2006

**PermSec Note:**

UI FTP 3 (Rev. 1) was submitted to FP 51 in July 2006 (subject no. 6140).  
Attached.

## **Technical Background for UI FTP 3 Rev.2, July 2010**

### **1. Scope and objectives**

Revise the UI FTP3 with respect to very large doors exceeding small increase as defined in the UI FTP3.

### **2. Engineering background for technical basis and rationale**

The revision mainly consisted in introducing 3 categories of larger doors, which were identified taking into account the ongoing work within the intersessional Correspondence Group on Comprehensive Review of the FTP Code established by FP 52. These three categories were:

- doors having dimensions not exceeding 15% width and height and 10% area of a tested door (item cleared by IMO MSC/Circ. 1273);
- doors larger than those abovementioned, but not exceeding 50% surface area of the tested door; and
- larger doors exceeding 50% surface area of the tested door.

Members agreed that the alternative verification method for larger doors could be used only if the dimensions of the door are greater than the maximum permitted by IMO furnace and the door involved has already been tested, with maximum dimensions permitted in furnace with satisfactory results. In this respect, it was agreed to set IMO Furnace dimensions (2.440 x 2.500) as minimum requirement.

### **3. Source/derivation of the proposed IACS Resolution**

IMO FTP Code

MSC.1/Circ. 1319

### **4. Summary of Changes intended for the revised Resolution**

IMO Furnace dimensions (2.440 x 2.500) are set as minimum requirement for fire performance evaluation and approval of the door. Only for the doors whose dimensions are greater than the set ones, the alternative verification method could be used.

3 categories of larger doors are introduced, i.e.:

- doors having dimensions not exceeding 15% width and height and 10% area of a tested door (item cleared by IMO MSC/Circ. 1273);
- doors larger than those abovementioned, but not exceeding 50% surface area of the tested door; and
- larger doors exceeding 50% surface area of the tested door.

This UI is revised to make the methodology contained therein equally applicable to hinged and sliding fire doors in order to maintain the consistency with MSC.1/Circ. 1319.

### **5. Points of discussions or possible discussions**

The WG on comprehensive review of the FTP code established at FP52 (see FP52/WP.1) proposed that an overrun test as described in European Standard 1634-1 is used as the basis for accepting slightly larger doors than the ones tested to Res. A.754(18). This approach was considered sufficient to address the wording “comfortable margins” used in UI FTP3 Rev. 1. Such a UI was rejected by FP 51.

Pursuing the decision taken by FP 51, FP 52 agreed on the text of MSC.1/Circ. 1273, addressing the steps to be undertaken when larger fire doors are requested to be approved. On the basis of what contained in Recommendation 2 of the IACS Observer’s Report to FP52, the Statutory Panel then agreed to setting up a Project Team to revise the second part of the UI FTP3 to better present IACS’s view on the matter under discussion and submit it to FP53 for consideration.

The PT had to focus its work on the second part of IACS UI FTP3 to identify the fundamental requirements for testing and evaluation of doors where the dimensions exceed 15% width and height and 10% area of a tested door so as to provide as basis for accepting such doors without the need to carry out a full engineering analysis / assessment.

The task was then finalized on November 2008 upon unanimous agreement from all the PT Members. However, having not reached the qualifying majority within the Statutory Panel to approve the draft UI FTP 3, the Panel decided to prepare a submission to FP 53 containing the method developed by the PT for seeking FP views or comments on this issue.

FP 53 positively considered the views of IACS and agreed to a correspondent draft MSC circular containing the method proposed by IACS in document FP 53/4/5. This MSC/Circ was lately approved by MSC 86, with minor editorial amendments, as MSC.1/Circ. 1319.

The last version of UI FTP3 has been revised in order to make it consistent with the above mentioned MSC Circular. The only difference between the text in MSC.1/Circ. 1319 and the one presented in Re. 2 of UI FPT3 consists of the clear indication that the methodology contained therein is equally applicable to hinged and sliding fire doors (this was verbally agreed also by the WG on Comprehensive Review of the FTP Code established at FP 53).