UI FTP5 "Testing and approval of "A" class divisions – fastening of insulation material and details of joints (IMO Res. A. 754(18) / IMO FTP Code Part 3)"

Part A. Revision History

Version no.	Approval date	Implementation date when applicable
New (June 2010)	24 June 2010	1 July 2011

- **New (June 2010)**

.1 Origin for Change:

☑ Suggestion by IACS member

.2 Main Reason for Change:

To demonstrate that the testing of "A" class assemblies are representative of that to be used on board ships, the Members agreed to develop this UI.

.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:

This issue was discussed within the Statutory Panel by correspondence or at the Statutory Panel Meeting. The final draft of this UI was developed by the Statutory Panel.

.5 Other Resolutions Changes

See also UI SC239 (New, June 2010)

.6 Dates:

Original Proposal: *14 August 2008 Made by the Statutory Panel*
Panel submission to GPG: *02 June 2010 (Ref. 10077_PSa)*
GPG Approval: *24 June 2010 (Ref. 10077_IGb)*

Part B. Technical Background

List of Technical Background (TB) documents for UI FTP5:

Annex 1. **TB for Original Resolution (June 2010)**

See separate TB document in Annex 1.

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Technical Background for UI FTP5 New, June 2010

1. Scope and objectives

This UI was developed to demonstrate that the testing of “A” class assemblies is representative of that to be used on board ships.

2. Engineering background for technical basis and rationale

Insulation materials used in A-class divisions are normally fastened by means of steel pins and spring steel washers.

In practice (at the yards), pins are normally distributed evenly on bulkheads and decks. Thereafter, insulation mats are mounted and the washers secured to the pins. This assembly method will result in various pinning distances between the insulation joints and the closest insulation pins (see examples of horizontal joints in figure 1).

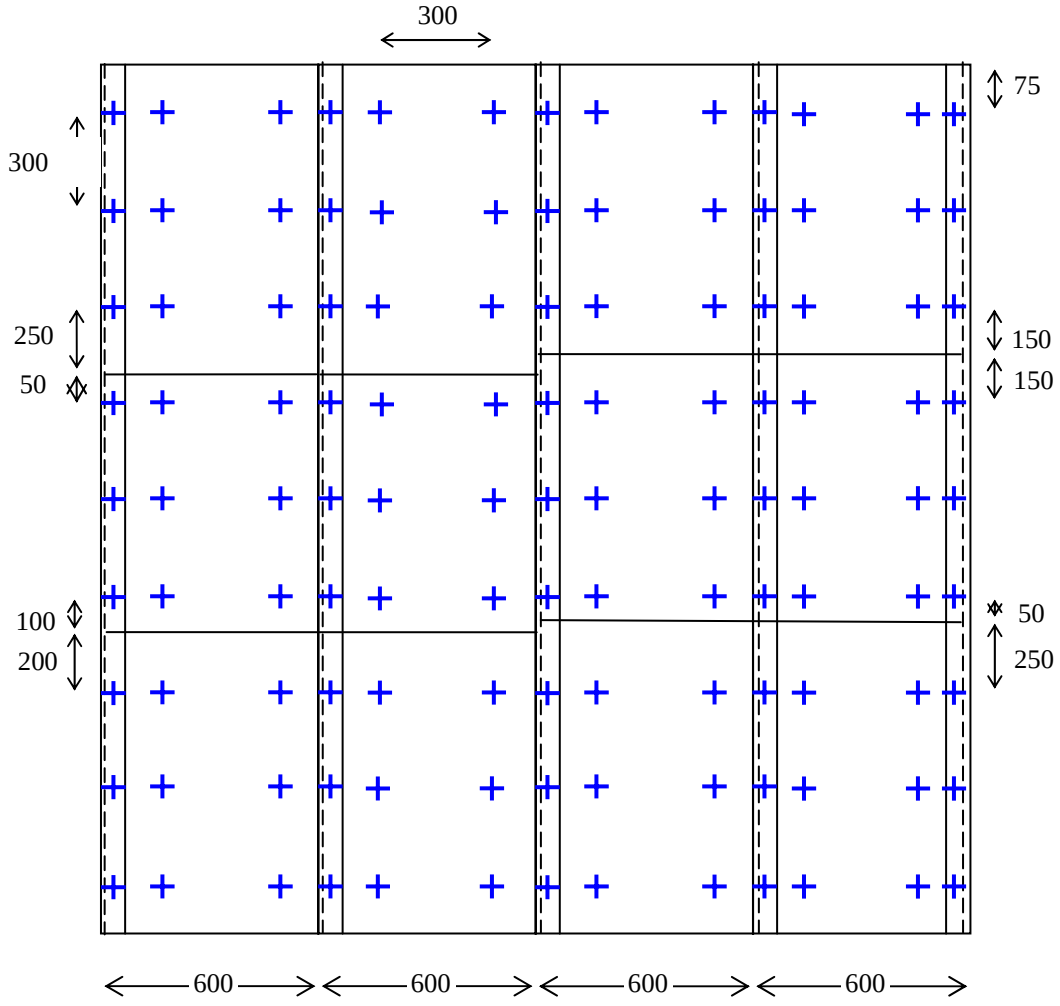

Figure 1

However, when testing A-60 insulation, it is not uncommon that the manufacturers of insulation materials use additional pins along the insulation joints to ensure that the test will not fail at the joints.

Since the yards will normally prefer to use a fixed pinning distance independent of type of insulation material used and will be reluctant to provide additional pins along the joints between the insulation mats, UI FTP5 has been developed so that the testing of bulkheads and decks is performed in a manner that is consistent with actual use of the end product.

After lengthy discussion within the Statutory Panel, it was agreed that the specifications listed in this UI be indicated in test reports and included in type approvals.

3. Source / derivation of the proposed IACS Resolution

During the development of this UI, comment and practice of shipyard and manufacturer have been sought and taken account of.

4. Summary of Changes intended for the revised Resolution:

N.A.

5. Points of discussions or possible discussions

Members discussed the application statement in following points:
The implementation date for this UI FTP is 1 July 2011 and for the UI SC239 is 1 January 2012. The reasoning behind these implementation dates took into account:
1) that the surveyor is to ensure insulation is installed in accordance with type approval report, regardless if the type approval is provided in accordance with the new FTP UI or not; and
2) that the FTP UI will allow existing type approvals to expire thus avoiding a wholesale renewal of the certification on or before the implementation date of the new FTP UI.

6. Attachments if any

N.A.