

# BCS I    Testing and approval of pipe penetrations and FTP6    cable transits for use in “A” class divisions (IMO FTP Code 2010 Annex 1 Part 3)

## Regulation

IMO FTP Code 2010 Annex 1 Part 3 Appendix 1 item 1.13 reads:

*The designs of the specimens proposed in this appendix are considered to reflect the worst case situations in order to provide maximum usefulness of the classifications to end-use applications. However, the Administration may accept or request special test arrangements which provide additional information required for approval, especially of those types of constructions which do not utilize the conventional components of horizontal and vertical divisions, e.g., where cabins may be of a modular type construction involving continuous connections between bulkheads, decks and ceilings.*

## Interpretation

### Arrangement

“A”-class pipe penetrations and cable transits that are

- a) constructed without structural sleeves of minimum 3 mm thickness and minimum 60 mm length welded or bolted to the division; and/or
- b) constructed with removable, soft or intumescent filling material

are “those types of constructions which do not utilize conventional components of horizontal and vertical divisions” and are to be subject to additional testing and/or design criteria as described below:

### Additional testing/design criteria

- Filling materials shall be adequately secured by bonded materials or mechanical means that cannot be removed without the use of tools in order to prevent damage by normal ship vibrations and pressures.
  - The pipe penetration/cable transit shall not have any visible openings. It shall not be possible to manually penetrate any part of the penetration with a 6 mm gap gauge, as described in paragraph 7.10 of Appendix 1 of Part 3 to Annex 1 of the 2010 FTP Code.
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**BCS I**  
**FTP6****Approval**

Penetrations in structural divisions shall not impair the structural strength of the division. The structural make-up of the penetration is to be fully described so that its use and the need for additional stiffening for the division can be fully assessed.

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