

European Aviation Safety Agency

European Technical Standard Order

Subject: Fire Containment Covers (FCC)

1 - **Applicability**

This ETSO gives the requirements which fire containment covers (FCC) that are designed and manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 - **Procedures**

2.1 - General

Applicable procedures are detailed in CS-ETSO Subpart A.

2.2 - Specific

None.

3 - **Technical Conditions**

3.1 - Basic

3.1.1 - Minimum Performance Standard

Standards set forth in the SAE International AS6453, Fire Containment Cover-Design, Performance, and Testing Requirements, August 2013, as amended by Appendix 1 of this ETSO.

3.1.2 - Environmental Standard

The required performance under the test conditions specified in SAE AS6453 Section 4.6 and Sections 6.1.2 through 6.1.5 as modified in the appendix of this TSO shall be demonstrated.

3.1.3 – Computer Software

None.

3.1.4 - Electronic Hardware Qualification

None.

3.2 - Specific

3.2.1 Failure Condition Classification

N/A

4 - **Marking**

4.1 - General

Marking as detailed in CS-ETSO Subpart A paragraph 1.2.

4.2 - Specific

Each fire containment cover conforming to this Standard shall bear at least the following markings near the bottom edges on the two opposite long sides:

- 'FIRE CONTAINMENT COVER', in bold characters at least 150 mm (6 in) high,
- Substantiated protection time (e.g. 'Minimum protection duration 6 hours'),
- The IATA ULD ID (size) codes for the pallets and nets with which the FCC can be used.
- Expiration date in the format 'EXP YYYY-MM'.

In addition each fire containment cover conforming to this Standard shall bear the markings identified in SAE AS6453 Section 7.3 and Section 7.4 as amended in Appendix 1 of this ETSO.

5 - Availability of Referenced Document

See CS-ETSO Subpart A paragraph 3.

APPENDIX 1.**MINIMUM PERFORMANCE STANDARD (MPS) FOR FIRE CONTAINMENT COVERS**

This Appendix prescribes the MPS for Fire Containment Covers. The applicable standard is SAE International AS6453, Fire Containment Cover – Design, Performance, and Testing Requirements dated August 2013 and modified as follows:

AS6453 Section	Action
1.1 – 1.2	Disregard
1.4	Disregard
1.7	Disregard
2	Disregard references to Japanese Airworthiness Standard Part 3 and Civil Aviation Agency of China Regulations CAAC CCAR-25 and CTSO C90
3.2	Disregard second sentence
4.1	Disregard
4.2.1	Disregard Note 4 and Note 6
4.3.1	Add to the end of the sentence “which is sufficiently flexible to allow the FCC to collapse with the fire load”.
4.3.3 – 4.3.6	Disregard
4.4	Disregard
4.5.3	Disregard
4.5.4	Disregard
4.5.6 – 4.5.8	Disregard
4.6.5	Disregard the phrase ‘as part of the required traceability code (see 7.2)’
4.6.7	Disregard
4.7	Disregard
5.1.1	Add ‘seams and corners’ after ‘The fire container cover’s material’.
5.1.1	Disregard references to CCAR-25 and JAS Part 3
5.1.2	Disregard
5.1.3	Disregard
5.2.2	Disregard references to CCAR-25 and JAS Part 3
5.2.4	Disregard
5.3.1	Disregard second sentence
5.3	Disregard
6.1.1.1	Disregard references to CCAR-25 and JAS Part 3
6.1.1.2.b	Disregard references to CCAR-25 and JAS Part 3
6.1.1.5	Add the following sentence to the end of this section ‘The FAA Aircraft Materials Fire Test Handbook includes an allowance for a brief ignition on the upper surface of the test specimen as long as the 400 degree F requirement is not exceeded.’

AS6453 Section	Action
6.1.1.6 – 6.1.1.7	Disregard
6.1.6	Disregard
6.2.1	Replace the words in the end of the second sentence ‘paragraph 4.3.2 of the US DOT/FAA/AR-TN05/20 document (see reference [16] in Bibliography).’ with the following, ‘the bulk load fire scenario section of report US DOT/FAA/TC-TN12/11.’