

32194 Answers to questions 5 and 6 Appendix A-D PDF

5. The award was based on an initial paper sift in response to questions, followed by a visit and audit of the faculties. See Appendix A, B and C PDF.

Appendix A: Agenda test house audit 2013

Title of meeting

Date

Time

Venue

Attendees

1. Welcome and Introductions
2. Overview of the standards (body armour and portable ballistic protection)
 - a. Clarification of any issues
 - b. Formal process of certification testing
 - c. AOB
3. Discussion of calibration and quality assurance procedures
4. Ballistic Testing (ammunition to be available at the test facility, if this is an issue please let us know as soon as possible)
 - a. Inspection of range and facilities
 - b. Calibration check of plastilina
 - c. 5 shots 9mm @HG1 velocity against supplied target (including demonstration of reloading)
 - d. 5 shots 0.357" @ HG1 velocity against supplied target (including demonstration of reloading)
 - e. 3 shots 7.62mm Nato Ball L2A2 @RF1 velocities against supplied target
5. Knife and Spike testing (knives and spikes to be available at the test facility, if this is an issue please let us know asap)
 - a. Inspection of drop rig, missile, dampers (including checking the weights) and facilities
 - b. Calibration check of backing material
 - c. Knife test into supplied medium (KR1 E1 three stabs, KR1 E2 two stabs)
 - d. Knife test onto armour sample supplied (2 stabs KR1 and measurement of any penetration)

6. If present – inspection of Portable Ballistic Holding Rig
7. Debrief and overview of day

Appendix B: Term and requirements test facilities

Home Office Terms and Requirements for Testing of Ballistic, Knife and Spike Protective Equipment

Your test facility (the “**Test Site**”) has been accredited by the Home Office Centre for Applied Science and Technology for assessing ballistic, knife and spike protective equipment in accordance with the HOSDB Body Armour Standards (2007) and the CAST Portable Ballistic Protection Standard (2011) (the “**Standards**”)

This document (the “**Agreement**”) covers the terms which will apply between you the organisation whose details are set out in the Schedule (“**You**”, with the term “**Your**” being construed accordingly) and us, the Secretary of State for the Home Department acting by the Centre for Applied Science and Technology (“**CAST**”). It consists of the terms and conditions set out herein.

Accepting the Product for Assessment

You will be notified by CAST that a manufacturer (the “**Manufacturer**”) will be submitting its product (the “**Product**”) for compliance testing in accordance with the CAST standards. Compliance testing shall not commence until You receive authorisation from CAST. Testing shall be organised between You and the Manufacturer.

Compliance testing shall be completed within 4 weeks of CAST authorising You to conduct the tests. If this timescale cannot be achieved, You shall notify CAST of the later test date, at the time when the authorisation to test is given.

MQT1, MQT2 or confidence testing shall be arranged directly between You and the requestor (e.g. the Manufacturer or a police force). No prior authorisation from CAST is required to complete these tests.

Training

You are responsible for ensuring that all staff conducting compliance testing, MQT1, MQT2 or confidence testing are trained and competent to complete these assessments.

CAST will provide training on any new aspects of the Standards. CAST will also advise on any unusual testing requirements or products. If You have any concerns or questions relating to testing, please seek advice from CAST before You complete the tests.

CAST will review testing capabilities during an annual inspection of Your Test Site.

The Evaluation / Test

Compliance testing, MQT1 and MQT2 testing shall be performed in accordance with the CAST standards.

You are responsible for procurement and maintenance of all test equipment used to conduct

assessments in accordance with CAST standards. You are responsible for ensuring that this test equipment is fully functional and calibrated.

You are responsible for procuring and checking the quality of test ammunition, knives, spikes and backing materials (e.g. plastilina, foam, witness screens etc) for use in accordance with CAST standards.

When authorised to do so, You will be responsible for completing full checks of the construction of body armour in accordance with instructions provided by CAST. This will commence once the Manufacturer has been alerted to the change in the current process. You shall not discuss this with the Manufacturer until authorisation has been given by CAST.

Testing may be observed by the requesting party, the Manufacturer and/or CAST.

Issuing Results

The results of the tests on the Product (the “**Test Results**”) shall be presented in accordance with Section 11, HOSDB Body Armour Standard 2007 Part 1, or Sections 4.6 and 4.7, CAST Portable Ballistic Protection Standard 2011. The CAST results template or an equivalent format that CAST has agreed shall be used.

Results of compliance testing, MQT1 and MQT2 testing of a Product shall only be disclosed to CAST and the Manufacturer.

You shall give a unique test reference to each test conducted.

You shall send a copy of all test reports, regardless of result, to CAST.

You shall not indicate whether the Product has met the requirements of the standard on Your report.

Shipping the Product (compliance testing)

If the Product has met the ballistic, knife and spike requirements of the relevant CAST Standard and the construction checks have been completed, You shall arrange for the shipment of all of the samples of the Product to CAST.

If the Product has not met the ballistic, knife and spike requirements of the relevant CAST Standard, You shall arrange for the shipment of all of the samples of the Product to the Manufacturer.

Shipping the Product (MQT2)

If the Product has met the ballistic, knife and spike requirements of the relevant CAST Standard and the compliance checks have been completed, You shall arrange shipment of all of the samples of the product to CAST.

If the Product has not met the ballistic, knife and spike requirements of the relevant CAST Standard, You shall arrange for the shipment of all of the samples of the Product to CAST. **Construction checks must not be performed on Products that have failed to meet the requirements.**

Intellectual Property Rights

You agree to grant to CAST a licence to use any and all intellectual property, including all Test Results, rights in the results of testing a Product and any associated material which You provide with a Product, to the extent required to enable CAST and its staff to perform any retesting, to collate and report on the Test Results, and to review test data in the future. CAST retains the right to use the data for any future investigations of the Product.

It is Your responsibility to ensure that all Manufacturers who submit Products for testing are made aware that results will be shared with CAST.

Confidentiality

Any information provided to You by CAST concerning the Ballistic, Knife and Spike Protective

Equipment Test Protocol or the Standards is done so in confidence and solely for the purpose of Your involvement in the testing and for internal research and development. You shall not communicate any such information outside Your organisation.

CAST agrees not to disclose any proprietary testing information to third parties.

Payment

You agree to pay CAST an administration fee of £1,000 per annum. You will supply a purchase order for this amount to CAST at the start of each UK Financial Year prior to the start of testing/evaluation of the Product. A breakdown of this amount will be detailed in a quotation provided to You.

CAST shall issue an invoice for the amount set out in the purchase order on the 2nd January of each year of this Agreement. Payment shall be due within 30 (thirty) days of issue of the invoice.

Liability and Insurance

Risk in and liability for testing the Product in accordance with the Standards shall at all times remain with You. You should therefore ensure that any insurance arrangements which You have in place in relation to the Product will continue to apply whilst it is at the Test Site.

Agreement

Please signify Your acceptance of these requirements by signing the attached duplicate of this document and returning it to the CAST evaluation service manager whose details are set out below. If You are unwilling to accept these conditions, then CAST regrets that it will be unable to accredit Your test facility to assess ballistic, knife and spike protective equipment in accordance with the Standards.

Signing of this document constitutes agreement that the signatory is Your authorised representative and that You are satisfied with the terms for testing in accordance with the Standards, as set out herein.

This agreement will be valid for a period 5 years from the date of commencement, with the option to extend for a further 2 years subject to agreement from both parties.

Signature

Name (printed)

Company

Position

Date

Handling instructions

This document is marked PROTECT - COMMERCIAL and therefore should be held securely under lock and key. This document should not be copied or transferred to a third party without the permission of CAST. As soon as PROTECT - COMMERCIAL items are no longer required they should be destroyed.

Appendix C: Requirements for testing

1. CAST require **four** test houses to assess body armour and portable ballistic protection in accordance with the following Standards (or subsequent revisions to these Standards):
 - HOSDB Body Armour Standards (2007), Publication Number 38/07
 - Portable Ballistic Protection Standard (2011), Publication Number 47/11
2. Any additional CAST procedures relating to these standards will be adhered to by the test house.
3. Test houses must have no commercial interest in the design, development or sale of body armour or portable ballistic protection.
4. Test houses are required to sign a Non-Disclosure Agreement between CAST and the test house.
5. Test houses must be accredited to a nationally recognised quality assurance standard.
6. Test equipment must be annually calibrated and calibration documents must be provided to CAST.
7. Annual inspection of test facilities will be conducted by CAST. During the inspection all test equipment must be set up ready for testing to commence.
8. Test houses are responsible for the procurement and maintenance of their test equipment and consumables. Ammunition, knives, spikes and backing materials must meet the CAST specifications set out in the Standards.
9. Test houses must be authorised to store necessary test equipment (including proof barrels and ammunition) and conduct ballistic testing in accordance with the legal requirements for their country.
10. Test houses outside the UK must have the ability to send and receive body armour to the UK. Shipping fees are the responsibility of the test house.

11. Test houses must demonstrate ballistic shot accuracy, enabling testers to meet the shot pattern for ballistic testing to the Body Armour Standards and adhere to the shot rules set out in the Portable Ballistic Protection Standard.
12. Test houses must demonstrate consistency in velocity of ammunition within the constraints of the ballistic standards. This may require reloading ammunition.
13. Test houses will be responsible for checking the construction of body armour and portable ballistic protection. CAST will provide training for this and only trained personnel will complete these construction checks.
NOTE: In order to satisfy the requirements for disclosure of information a non-disclosure agreement or confidentiality agreement must be set up between the test house and the manufacturer.
14. All body armour or portable ballistic protection will be returned to CAST after compliance testing along with the test results and construction check records.
15. Test houses will not commence compliance testing until authorised to do so by CAST. Upon authorisation to conduct compliance testing, CAST will issue construction information to enable checks to commence.
16. Test houses are authorised to conduct MQT1, MQT2 or confidence testing without prior notification by CAST.
17. Test houses will report all results to CAST in a standardised results form (excel spreadsheet). This spreadsheet will be emailed to CAST regardless of a pass or fail result (compliance testing, MQT1, MQT2 and confidence testing).
18. Upon completion of testing, test houses will ship all items tested to CAST within 5 working days (compliance testing – pass only, and MQT2 – pass or fail).
19. During compliance testing, if a fail occurs test houses will alert CAST prior to shipping items.
20. Test houses will not issue compliance documentation to the manufacturer.
21. The cost of completing a full compliance test and MQT2 test shall be declared to CAST as part of the submission.
22. Test houses are required to pay an annual accreditation fee of £1000 to CAST.

6. Copy of the document that led to the current award

Appendix D: Test house advert

CAST – TEST HOUSES

The Home Office Centre for Applied Science and Technology (CAST) invites expressions of interest from test facilities to be approved by CAST for compliance testing for ballistic, knife and spike resistant products in accordance with the following standards:

- HOSDB Body Armour Standards (2007) Publication Number 39/07
- CAST Portable Ballistic Protection Standard (2011) Publication Number 47/11

Expressions of interest, including full contact details, should be sent to declarations@homeoffice.gsi.gov.uk by 6th January 2012.

During the week commencing 9th January 2012 full requirements will be issued to interested parties and an application will then be required stating how each facility can meet those requirements.

Please note:

- This invitation is limited to facilities that have **no commercial interest** in the items being tested.
- Four facilities, all of which are accredited to a nationally recognised quality standard, will be approved – a minimum of one in the UK, one in mainland Europe and one in North America.
- There will be an annual accreditation fee of £1000.
- A Home Office Non-Disclosure Agreement must be signed prior to a facility being approved.

The relevant standards are available using the following links:

Body Armour Standard Part 1 – General Requirements:

http://webarchive.nationalarchives.gov.uk/20100413151441/http://scienceandresearch.homeoffice.gov.uk/hosdb/publications/protective-equipment/39-07-A_-_HOSDB_Body_Armour11155.html?view=Standard&pubID=496173

Body Armour Standard Part 2 – Ballistic Resistance:

http://webarchive.nationalarchives.gov.uk/20100413151441/http://scienceandresearch.homeoffice.gov.uk/hosdb/publications/protective-equipment/39-07-B_-_

[HOSDB Body Armour1e146.html?view=Standard&pubID=496214](#)

Body Armour Standard Part 3 – Knife and Spike Resistance:

[http://webarchive.nationalarchives.gov.uk/20100413151441/http://scienceandresearch](#)

[.homeoffice.gov.uk/hosdb/publications/protective-equipment/39-07-C -](#)

[HOSDB Body Armour1c9d2.html?view=Standard&pubID=496223](#)

Portable Ballistic Protection Standard:

[http://www.homeoffice.gov.uk/publications/science/cast/protective-](#)

[security/cast4711?view=Binary](#)