



Public Order (riot) Helmet

Technical Specification

Argus APH05 Public Order Helmet

Model APH05T

Description / Applications

Public Order Helmet sizes 50cm-63cm sell-colored thermoplastic shell, tilted with energy absorbing EPS liner with replaceable head sizing inner. Shell incorporates four metal gauze hearing inserts, which prevent ingress of flame and liquid, and mounting for internal optional communications system. Helmet tilted with fire retardant detachable padded cheek pad. Fixed neck protector, and adjustable chinstrap with chin-cup and quick release buckle. Visor is 3mm high impact polycarbonate molded design with lull metal carrier.

The helmet is fully approved to HOSDB. PSDB Protective Headwear Standard for UK Police (2004). This Standard contains requirements that provide a suitable level of protection for police officers involved in public order duties, against manual attack weapons, injurious and flammable liquids fire and other extreme trauma. The Argus helmet is designed for use by Police, Prison, and Security personnel. In addition, the helmet is approved for compatible use with the following respirators - Avon FM1Z, \$10, and Scott N95

Sizes:

Helmet Size | 00| 0| 1| 2| 3| 4| 5| 6

Helmet Size cms | 50-51| 52-53| 54-55| 56-57| 55-59| 60-61 | 62| 63

Materials

Shell High impact resistant sell-colored ETS retardant Acrylonitrile Butadiene Styrene (ABS)

Liner High density expanded polystyrene (EPS)

Cheek pads Fire retardant cotton modal

Chin Strap Fire retardant Nomex

Chin Cup Fire retardant Polypropylene

Neck Guard High-density loam with flame retardant PVC covering

Visor High impact optical grade polycarbonate - with option of anti-mist / anti-scratch coating

Environmental

The helmet should be stored in dry, clean conditions away from direct sunlight, sources of heat, petrol and solvent vapors.

Recommended storage within temperature range +5c to +40c and humidity < 90% - typical tile in storage conditions. 10years

Approvals

It is a vital requirement that potential users of public order helmets confirm that the helmet offered is designed manufactured and tested to meet a recognized standard specifically established for the rigorous operational requirements of public order and security duties.

The following notes summarizes the tests carried out to achieve certification:

Summary of Testing



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The new PSDB Standard (2004) is additional to the BSI PAS 017 Standard (1995) which was the first readily available specification and standard, applicable to public order helmets complete with faceshields. New tests for visor impact protection, the solvent resistance of visors, and new test methods for testing the impact attenuation of the helmet.

Environmental Conditioning of Helmets

Helmets subjected to impact attenuation and penetration tests, and visors subjected for impact and pellet protection tests, are conditioned immediately prior to applicable testing to simulate use in a wide range of climatic conditions (-20C to +50C)

Coverage and Peripheral Vision

Measurements are taken to establish that the visor covers a minimum defined area of the face, and that the wearer's peripheral vision is not affected by any part of the helmet or visor mounting system.

Hearing Attenuation

This test is carried out to ensure that the helmet does not reduce the level of sound reaching the wearer, above defined limits.

Flammable Liquid Trap

The test is performed to ensure that there are no liquid traps on the exterior of the helmet and that the helmet is self-extinguishing within 15 seconds of the test fluid being ignited

Flame Test

The test is performed to determine the flame retardancy properties of the helmet.

Helmet Retention Stability Test

The test is performed to ensure that the helmet does not roll forward over the wearer's face as a result of an applied force.

Helmet Retention Strength Test

Performed to ensure that the retention system does not separate or extend above defined limits as a result of a dynamic load.

Helmet Penetration Test

Performed to ensure that the wearer is protected from a penetrating attack to the helmet body.

Impact Testing (Attenuation)

Performed to ensure that the helmet is capable of resisting an impact caused by hand thrown or hand wielded blunt weapons.

Vision Test (Prismatic)

Performed to ensure that the vision of the wearer is not distorted due to prismatic effects of the visor.

Vision Test (Spherical and Astigmatic Aberration)

Performed to ensure that the vision of the wearer is not distorted due to spherical and astigmatic aberration introduced by the visor.

Visor Mist Test (Optional)



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Performed to assess the anti-mist properties at the visor. This test is only applicable to visors that are offered with anti-mist properties.

Visor Impact Test

Performed to ensure that a known impact will not cause a deformation of the visor which may contact the wearers face.

Visor Pellet Test

Performed to ensure that the visor can withstand an impact from a low mass high velocity projectile.

Visor Solvent Test

Perfumed to ensure that a visor has a resistance to a lest solvent of Methyl IsoBulyl Kentone (MIBK)

SHELL	HIGH IMPACT COLOURED FIRE FIRE RETARDANT ACRYLONITRILE BUTADIENE STYRENE (ABS) THERMOPLASTIC
LINER	HIGH DENSITY EXPANDED POLYSTYRENE (EPS)
CHEEKY PADS	FIRE RETARDANT COTTON MODAL
SIZING PADS	LOW DENSITY FOAM PADDING WITH CLOTH COVERING
CHIN STRAP	FLAME RETARDANT NOMEX
CHIN CUP	FLAME DENSITY FOAM WITH FLAME RETARDANT PVC COVERING
NECK GUARD	HIGH DENSITY FOAM WITH FLAME RETARDANT PVC COVERING
VISOR	HIGH IMPACT OPTICAL GRADE POLYCARBONATE



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