

## Garrett Metal Detectors Standards Compliance

Garrett walk-through metal detectors are of the quality and standards that meet the requirements of international air terminals. The single standard specifically designed to assure quality and performance of walk-through metal detectors for airports internationally is the FAA three gun operational test. All Garrett walk-through models have been tested by the Federal Aviation Administration of the United States and have been certified acceptable for airport use.

Furthermore, Garrett walk-through metal detectors comply with the following standards:

- **1. Electromagnetic and Radio Frequency Standards**
  - ◆ EN 55011, Group 2, Class B, Limits and methods of measurements of radio disturbance characteristics of industrial, scientific, and medical (ISM) radio frequency equipment. March 1991.
  - ◆ EN 50082-1, Electromagnetic compatibility – Generic immunity standard. Part 1: Residential, commercial and light industry. January 1992
- **2. Performance Requirements and Methods of Test for Metal Detectors**
  - ◆ National Institute of Law Enforcement and Criminal Justice: Standard for Walk-Through Metal Detectors for Use in Weapons Detection, NILECJ-STD-0601.00, levels 1-5. Each unit is tested for conformity of these requirements.
- **3. Low Voltage Certification**
  - ◆ EN 60950 – Tested and certified by TÜV.
- **4. Protection of Enclosures**
  - ◆ IEC 529 – Level of protection exceeds IP40 rating
- **5. Safety and Welfare**

Tested and self-certified to meet the requirements of:

  - ◆ Institute of Electrical and Electronics Engineers: “IEEE Standard for Safety Levels with Respect to Human Exposures to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, IEEE C 95.1-1991 section 4.1.2.
  - ◆ Occupational and Safety Health Administration, “Radiation Protection Guide”, CFR 1910.97 section (2).
  - ◆ Canada Health and Welfare: Performance Standards (Walk Through), RPB-SC-18 Section 3.2.2.

### General

With respect to metal detector standards, the Garrett company has been active in the American Society for Testing and Materials (ASTM) Committee F 12.60 on “Controlled Access Security Search and Screening Equipment” since 1987. This organization is comprised of manufacturers, end users and other interested parties, and it is the only active body that regularly reviews and establishes industry standards for the security industry.

Mr. Robert Podhrasky, General Manager and Chief Engineer, chairs the F 12.63 subcommittee on “Weapons Detection” that concerns itself with metal detector standards and regulation for security applications.



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