FAAC Guidance notes for EN16005 Standard

A new European Standard EN 16005:2012 was introduced in April 2013. The new standard is not retrospective so existing installations or those designed for installation before this date are not required to meet the standards, although we feel it is good practice to offer an upgrade to our customers where applicable. These notes are offered as guidance to our customers and we strongly recommend that all customers obtain a copy of the new standard for your reference.
All installations must now be CE marked in accordance with the Machinery Directive and are subject to the same Risk Assessment as previously under the BS 7036:1996

- A Risk Analysis and Health Assessment must be carried out by the installer and an appropriate specification issued to the client.
- When any contact with the user is unacceptable because a large proportion of the users are elderly, infirm, disabled persons and young children, additional protective devices shall be provided.
- Safety related parts of the control system shall comply with EN ISO 13849-1 Performance Level “c”.
- Safety related parts of the control system used for escape route functionality shall comply with EN ISO 13849-1 Performance Level “d”. However, Building Regulations including Scottish Building regulations take precedence over escape routes and may overrule this clause.

Manuals, Documentation and Log Book must be provided to the End User with the following information:
a) name and contact details of the manufacturer;
b) unique identification number which appears on the doorset labelling (only for new complete doorsets);
c) doorset location reference (when necessary);
d) name and contact details of the installation organisation, where appropriate;
e) date of completion of the installation;
f) identification of any power operated drive unit;
g) Identification of any protective devices.

- A Test box with the dimensions 700x300x200mm. The door leaf shall detect the test body and the doorset shall then either stop before it touches the reference body, reverse, or switch over to low-speed motion.
- Sensor activation zones will be a minimum of 1000mm, unless the opening is designated as a Fire Escape, then the activation zone is a minimum of 1500mm
- Danger points shall be safeguarded up to a height of 2500mm above the floor with the exception of finger protection on Swing doors, this is a maximum of 2000mm
- The Standard states that doorsets shall undergo routine maintenance according to the manufacturer’s instructions and at least, once a year.

Sliding Doors

Changes -

- Drawing in distance has increased from >6mm to >8mm
- Audible warning sensors alone will no longer meet the new requirements of the EN16005
- Additions include –
- The option to configure using dynamic forces where there is “NO” impact or crushing hazard as detailed in Table 1 BS EN16005:2012
- During the opening and closing cycles, Low energy movement is permissible, in accordance with Table 2 Annex F of BS EN 16005:2012

Sliding Doors across Fire exits

- If a “locked” mode of operation is available, the mode of operation shall be protected, e.g. by an access code or a key, so that changes can only be made by authorized personnel.
- Maximum floor channel slot for breakout doors is 20mm
- Sliding doors with a clear opening of up to 2000mm shall be at least 80% open within 3 seconds after activation, or 5 seconds on power failure. Larger door openings are calculated proportionally.
- Sliding doors on Escape and Emergency routes shall be durability tested for at least 1 million cycles.
- The fail safe system shall be tested automatically, at least once every 24 hours.

Swing Doors

Changes made during the opening and closing cycle:

- The maximum opening and closing times were measured from 0-90 deg, the EN16005 measures these times from 0-80 Deg (the overall times equate to the same values as those in the BS7036)
- The door mounted safety sensors must now protect more door width, this is calculated using leaf width and speed. Table G Annex G BS EN 16005:2012

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