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Provisions that will be mandatory for the building hardware products intended for use on the doorsets with fire resisting and/or smoke control characteristics covered by the draft harmonized product standard FprEN 16034:2013

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Provisions contained in the harmonized product standards covering building hardware

- a) The products of Table 1 shall be CE marked to the relevant harmonized product standards when they are intended for use on fire/smoke compartmentations doorsets as they enable such doorsets to fulfil the essential characteristics «Self closing» and «Durability of self closing»
- b) The products of Table 2 shall be CE marked to the relevant harmonized product standards when they are intended for use on either fire or not-fire rated doorsets on escape routes as they enable such doorsets to fulfil the essential characteristics «Ability to release» and «Durability of ability to release»

Provisions contained in the harmonized product standards covering building hardware

Table 1

Mechanical locks to EN 12209

Electromechanical locks to EN 14846

Multipoint locks to prEN 15685 (1)

Single axis hinges to EN 1935

Controlled door closing devices (Door closers) to EN 1154

Electrically powered hold open devices to EN 1155

Door coordinators to EN 1158

Uncontrolled door closing devices (Spring hinges) to prEN 15887 (1)

Provisions contained in the harmonized product standards covering building hardware

Table 2

Panic exit devices to EN 1125

Emergency exit devices to EN 179

Electrically controlled exit systems for use on escape routes to prEN 13637 (1)

Note (1): the provisions contained in this draft harmonized standard will become mandatory when the draft is published as harmonized standard and the coexistence period expires

Provisions contained in the draft harmonized product standard prEN 16034:2013 covering just fire/smoke compartmentation doorsets

The draft harmonized product standard prEN 16034:2013, details that the building hardware items fitted on the doorsets covered by prEN 16034 shall comply with the following provisions:

- The electrically powered hold open devices shall comply with EN 1155
- All the items shown in Table 1 and Table 2 shall comply with the clauses of the relevant harmonized product standards covering the essential characteristic «Durability of self closing»

Conclusions

In conclusion the provisions that will be mandatory for building hardware that is intended for use on fire/smoke compartmentation doorsets covered by FprEN 16034:2013 are:

1. If a door manufacturer uses building hardware items produced by building hardware manufacturers and makes them available on the market also as separate parts, the building hardware items shall be CE marked to the relevant harmonized product standards
2. If a door manufacturer uses building hardware items with his trademark, which are produced by him or by someone else, and makes them available on the market as separate parts, again they shall be CE marked to the relevant harmonized product standards

Conclusions

3. If a door manufacturer uses building hardware items with his trademark, BUT they are produced by the door manufacturer or by someone else just for the door manufacturer and they do not make them available in the market as separate parts, then the products of Table 1 and Table 2 shall comply with the clauses of FprEN 16034:2013 which apply to them (see Slide 5) but do not have to be CE marked to the relevant harmonized building hardware product standards.

But the door manufacturer can not make these products available separately, if there is a maintenance issue with the doorset, because they are supplying product separately to the market

Interchangeability of the building hardware intended for use on the fire/smoke compartmentation doorsets

The interchangeability of building hardware items when they are used on fire/smoke compartmentation doorset will be possible if the change does not affect negatively the fire resistance, the smoke control and the self closing durability of the doorset.

The Notified Certification Body which has issued the certificate of constancy for the performance of the doorset is responsible for verifying whether or not a variation is possible and the Certification body will carry out this change by:

- applying the rules of direct and extended application of test results for fire resistance, smoke control and self closing durability, if there are direct or extended application rules covering the considered variation

Interchangeability of the building hardware intended for use on the fire/smoke compartmentation doorsets

- repeating the fire resistance test against EN 1634-1, the smoke control test against EN 1634-3 and the self closing durability test against prEN 16034 if there are no direct and extended application rules covering the considered variation

Fire Resistance and Smoke control

For these characteristics the standards EN 1634-1 and EN 1634-3 define the rules of direct application and the parts of the standard EN 15269 define the rules of extended application.

Self Closing Durability

For this characteristic there are not yet standards covering the rules of direct and extended application. A subgroup of the CEN/TC33 AHF Group is preparing such rules but the documents produced so far are still at an early stage.

Hardware Performance Sheet (HPS)

According to the standard EN 16035, the Hardware Performance Sheet (HPS) relative to a building hardware item is a template of data, obtained from existing durability of self-closing, fire resistance and/or smoke control test reports, which summarises the performance and other relevant information of the considered hardware product. The HPS shall be part of the technical information delivered to a Notified Body by an applicant looking for an extended application report for the interchangeability of the building hardware item for a fire/smoke compartmentation doorset.

The HPS shall be completed by the hardware manufacturer or by the door manufacturer.

Hardware Performance Sheet (HPS)

It is responsibility of the Notified Body to check whether or not the content of the HPS is correct and up-to-date.

It is important to note that the Notified Body responsible for checking the content of the HPS will ask for the supporting test reports from which the HPS data are obtained.

This may be a problem when applicants, for instance building hardware manufacturers, do not own one or more of the test reports from which the HPS data are obtained. They will need to seek permission from a third party who owns the evidence.