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CONSTRUCTION SECTOR STANDARDIZATION GUIDANCE DOCUMENT

How to draft clauses related to fire in harmonized standards for construction products

Foreword

(1) This document gives the principles for writing clauses related to fire in candidate harmonized standardization work.

Model clause for reaction to fire

4.x Reaction to fire

The reaction to fire indicates the degree of contribution of the material/product to the behaviour of the construction product in the event of fire. When tested in accordance to the test methods given in clause 5.xx, relevant for the claimed class, the test results are expressed as a class according to the classification published in the Official Journal of the European Union on this specific matter.

NOTE The applicable document at the time this standard was drafted is Commission Delegated Regulation (EU) 2016/364 of 1 July 2015.

4.x.1 Classification without further testing (WFT)

Whether products covered by this standard fulfill the conditions, under which they have demonstrated of having a stable reaction to fire performance in a given reaction to fire class, based on testing to the appropriate EN test methods, the established assigned class applies to these products without the need of carrying out further reaction to fire tests.

NOTE The rules to apply this classification are published as Commission Decisions or Commission Delegated Regulations.

4.x.2 Classification without testing (WT)

Whether products covered by this standard are made from one or more of the materials that have been considered, under established conditions, as belonging to the category “No contribution to fire” because of their low level of combustibility, the reaction to fire class A applies to these product without the need of carrying out reaction to fire tests.

NOTE The rules to apply this classification are published as Commission Decisions or Commission Delegated Regulations.

Model clause for resistance to fire

4.x Resistance to fire

The resistance to fire is the capability of the product to provide, in the event of fire and for a given time, one or more of the following behaviours:

- Load-bearing capacity (R)
- Integrity (E),
- Insulation (I)
- Radiation (W)
- Mechanical action (M)
- Self-closing (C)
- Smoke leakage (S)
- Continuity of power (P)
- Continuity of signal supply (PH)
- Soot fire resistance (G)
- Fire protection ability (K)
- Temperature class expressed in maximum gas temperature in °C
- Stability duration under constant temperature (D)
- Stability duration under the standard time-temperature curve (DH)
- Functionality (of powered smoke and heat ventilators) (F)
- Functionality (of natural smoke and heat ventilators) (B)

When tested according the test methods indicated in 5.xx (methods relevant for the product covered by the standard), the results are expressed as class in minutes according to the classification published in the Official Journal of the European Union on this specific matter, completed by the established suffixes.

NOTE The applicable document at the time this standard was drafted is Commission Delegated Regulation (EU) 20###/## of # ##### 20##.

Model clause for external fire performance of roofs and roof coverings

4.x External fire performance of roofs and roof coverings

The external fire performance of roof and roof coverings indicates the behaviour of the products when subject to the spread of fire from neighbouring construction works. When tested following one of the four test methods according to CEN/TS1187, the results are expressed as a class indicating method t1, t2, t3 or t4 as appropriate.

4.x.1 Classification without further testing (WFT)

Whether products covered by this standard fulfill the conditions, under which they have demonstrated of having a stable reaction to fire performance in a given class, based on testing to the appropriate EN test methods, the established assigned class applies to these products without the need of carrying out further external fire performance tests.

4.x Classification without testing (WT)

Whether roof products/materials products covered by this standard are made from one or more of the materials that have been considered to fulfil all of the requirements for the performance characteristic “external fire performance” without the need for testing, subject to compliance with any national provisions on the design and execution of works, the

established assigned class applies to these products without the need of carrying out further external fire performance tests.