

STATUTE BOOK OF THE SWEDISH NATIONAL BOARD OF HOUSING, BUILDING AND PLANNING

BFS 2011:X
EKS X

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The Swedish National Board of Housing, Building and Planning's regulations on the amendment of the Board's regulations and general recommendations (2008:8) on the application of European construction standards (eurocodes);

First printed
on DD MM YYYY

adopted on DD MM YYYY.

The information process according to the ordinance (1994:2029) on technical rules has been carried out¹.

The National Board of Housing, Building and Planning orders the following with the support of chapter 10, section 9, of the Planning and Construction Ordinance (2011:xx).

Section C

Chapt. 1.1.2 – application of EN 1991-1-2

Section 5 *General recommendations*

Table C.3 Fire safety class in Br2 building

Fire safety class	Examples of building parts of a Br 2 building
1	Certain bearing parts in safety class 1, eaves, non-bearing interior wall, canopy or balcony without common bearing parts. Bearing constructions that belong to the building's main system and that cannot lead to continuous collapsing in the fire load case. Examples of building parts may be trusses, pillars that in collapsing only affect a limited area.
2	-
3	Bearing constructions that belong to the building's main system and that can lead to continuous collapsing in the fire load case. Landings and staircases that constitute evacuation routes and that are located below the upper basement floor.
4	-

¹ See European Parliament and Council Directive 98/34/EC of 22 June 1998 on an information procedure regarding technical standards and regulations and regulations for the services of the information society (EGT L 204, 21.7.1998, p.37, Celex 398L0034), amended by European Parliament and Council Directive 98/48/EG (EGT L 217, 5.8.1998, p.18, Celex 398L0048).

5	Bearing constructions that belong to the building's main system and are located below the upper basement floor.
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The assessment of whether bearing constructions can lead to continuous collapsing in the fire load case can be done in the following way. Building parts can be classified as belonging to fire safety class 1 if the extent of collapsing of a building part or building parts, i.e. the primary damage and the adjacent area, are limited to the maximum area indicated in figure C.1. In other cases, the building parts are classified as belonging to fire safety class 3. Bearing constructions that are classified as belonging to fire safety class 1 are assumed to possess qualities that mean that a rupture will not entail immediate collapse and good conditions should prevail for a complete evacuation of the building. The extent of the damage area can be judged in the following way. Fire as accident load in this case may be assumed to be a fire impact area of 20 m² and the volume above it. Within the fire impact area, the dimensioning temperature-time curve may correspond to the standard fire curve for 30 minutes (R 30). Building parts can be classified as belonging to fire safety class 1 if the extent of collapse of the building parts, i.e. the primary damage from the collapse of all building parts during 30 minutes and the adjacent area, is limited to the maximum damage area as indicated in figure 1. In other cases, the building parts are classified as belonging to fire safety class 3. The maximum damage area consists of a fire impact area of 20² and the adjacent area located no farther than 11 m from the fire impact area. Assessment is done for all affected building parts within the fire impact area during 30 minutes. Assessment should assume an unfavourable location of the fire impact area.

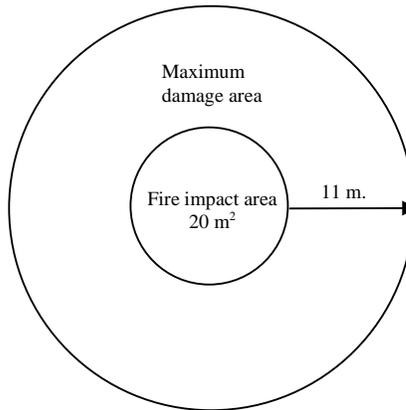


Figure C.1(S) Fire impact area and adjacent area.

For buildings that contain healthcare facilities and special residences for persons with healthcare needs, all building parts that belong to the building's main system should be classified as belonging to fire safety class 3.

This statute takes effect on DD MM YYYY.

On behalf of the National Board of Housing, Building and Planning

FIRST NAME LAST NAME

First name Last name
(Unit)

First name Last name
(Unit)