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Prostori za gledalce - Merila za načrtovanje storitvene oskrbe - 2. del: Značilnosti

Spectator facilities - Layout criteria of service area - Part 2: Characteristics

Zuschaueranlagen - Kriterien für die räumliche Anordnung von Versorgungsbereichen - Teil 2: Merkmale

Installations pour spectateurs - Critères d'implantation des espaces de services - Partie 2 : Caractéristiques

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ICS:

91.040.10	Javne stavbe	Public buildings
97.200.10	Gledališka, odrska in studijska oprema ter delovne postaje	Theatre, stage and studio equipment
97.220.10	Športni objekti	Sports facilities

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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English Version

Spectator facilities - Layout criteria of service area - Part 2: Characteristics

Zuschaueranlagen - Kriterien für die räumliche
Anordnung von Versorgungsbereichen - Teil 2:
Eigenschaften

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 315.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

	Page
European foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 Environmental aspects.....	6
5 Circulation spaces outside of service area	7
6 Part of service area.....	7
6.1 General.....	7
6.2 Circulation system (see Figure 1).....	8
6.2.1 General.....	8
6.2.2 Emergency routes	9
6.2.3 Operator's routes and facilities.....	9
6.2.4 Concourses.....	9
6.3 Sanitary facilities.....	10
6.4 Medical facilities.....	11
6.4.1 General.....	11
6.4.2 First aid rooms	11
6.5 Catering facilities and merchandise outlets.....	12
6.6 Zones for the organizers and the participants to the event.....	12
6.7 Zones for VIP, media and operators.....	13
6.8 Other venues or activities not related to the main event	13
7 Signs of the service areas	13
Annex A (informative) Example of circulation space outside.....	14
Annex B (informative) Example of parking for spectators on wheelchairs.....	15
Annex C (informative) Example of toilets for spectators on wheelchairs	16
Bibliography.....	19

European foreword

This document (prEN 13200-2:2017) has been prepared by Technical Committee CEN/TC 315 “Spectator facilities”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

EN 13200, *Spectator facilities*, consist of the following parts:

- Part 1: General characteristics for spectator viewing area;
- Part 2 ¹⁾: Characteristics;
- Part 3: Separating elements - Requirements;
- Part 4: Seats -Product characteristics;
- Part 5: Telescopic stands;
- Part 6: Demountable (temporary) stands;
- Part 7: Entry and exit elements and routes;
- Part 8 ¹⁾: Safety Management;
- Part 9 ¹⁾: Communications systems in spectator facilities.

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¹⁾ Draft in preparation.

Introduction

This European Standard has been prepared in order to specify the general design criteria for service area with the purpose of enabling their safety and functionality. The standard minimum and recommended values for dimensions are occasionally presented. It should be recognized that these values are considered as values that in part recognize different national requirements as a basic provision.

Attention is drawn to the fact that in certain countries, additional/different requirements may be applicable due to existing national regulations or equivalent.

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1 Scope

This European Standard specifies layout criteria for service area at permanent or temporary Spectator facilities including sport stadia, sport halls, indoor and outdoor facilities for the purpose of enabling their functionality.

This standard is not applicable to other permanent venues such as theatres, cinemas, opera houses, auditoriums, lecture halls and similar.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13200-7, *Spectator facilities - Part 7: Entry and exit elements and routes*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

spectator facility

area of congregation comprising an activity area, a viewing area and a service area

Note 1 to entry: A spectator facility includes all the areas where the public assembles, indoors or outdoors, permanently or temporarily, views sports, entertainment or miscellaneous events.

3.2

activity area

area where the event takes place

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3.3

viewing area

area from which the spectators view the event

Note 1 to entry: The viewing area includes stands for spectators seated, standing and with special needs, passageways and gangways necessary for circulation, vomitories for entry and exit.

3.4

service area

area where publically accessible utilities are found

Note 1 to entry: The service area includes toilets, first aid, cafeterias, souvenirs shop, including passages, concourses, ramps and stairs between the viewing area and the external area.

3.5

concourse

circulation area with access to and from the spectator viewing accommodation and serving as a meeting area for spectators for purposes of refreshment and entertainment, in which direct access to toilet facilities may also be provided

3.6

queuing area

place where spectators can wait to use a service area

prEN 13200-2:2017 (E)

3.7

vomitory

element of passage that provides entry to or exit from viewing area

3.8

stand

structure providing a viewing area

3.9

sector

unit of the viewing area comprising one or more similar blocks

3.10

block

unit of the viewing area comprising a number of rows between rear and/or front gangways and one or two lateral passageways

3.11

design capacity

total number of spectators for which a spectator facility or some division of a spectator facility (block or sector) is designed

3.12

flow capacity

number of spectators that can safely pass through a given width of a space in a specified time

3.13

place of safety

place where a person is no longer in danger from fire or other emergencies

3.14

external area

place external to the activity area, viewing area and services area intended to be used as public road, parking and passages for spectators

3.15

indoor facility

facility in which both the activity area and viewing area are covered and enclosed

3.16

outdoor facility

open facility or uncovered activity area

4 Environmental aspects

The environmental aspects shall be considered in relation to the design and management of service area.

It is recommended to:

- use alternative energy solutions such as solar, photovoltaic, wind energy, etc.;
- use recyclable materials;
- include rainwater harvesting;

- implement the management of waste.

5 Circulation spaces outside of service area

An availability of sufficient external space and service area shall be taken into account, first and foremost to ensure there is adequate space for safe circulation of all spectators, including emergency service vehicles, and secondly to accommodate all temporary facilities required for organizers, such as the outside broadcast, hospitality village etc.

While it is normal for the arrival of spectators at the spectators facility at the same time to be spread over a sufficiently lengthy period to prevent undue congestion near the perimeter of service area, the majority of spectators will seek to leave the spectators facility at the same time, resulting in significant space requirements for the egress.

The circulation space available immediately outside the exit of service area shall be sufficient to guarantee that spectators are not at risk of being crushed in the event of a stampede and are able to leave the event in comfort (see Annex A).

At every event, it shall be possible to completely evacuate the spectators facility within a maximum time agreed with the local safety authorities.

Sufficient parking space for cars and buses for spectators with wheelchair shall be provided both inside service area or directly adjacent to the spectators facility (see Annex B).

6 Part of service area

6.1 General

The design and layout of service area will depend by site factors, scale of provision, the capacity and the types of spectator facilities (outdoor/indoor) and events that might take place.

The access from outside to a spectators service area shall be controlled by counting to avoid overcapacity. The service area connect the external area and the viewing area through entry and exit systems and a circulation system.

The service area of comprises:

- circulation system (emergency routes, operator's routes and facilities, concourses);
- sanitary facilities;
- medical facilities (first aid rooms);
- public refreshment facilities;
- zones for the organizers and the participants to the event;
- zones for VIP, media and operators;
- routes flow and service of other activities areas;
- entry and exit system (see Annex A);
- parking for media and operators (police, fire brigade and medical staff).

NOTE The requirements for entry and exit system of spectators are reported in EN 13200-7 Spectator facilities - Part 7: Entry and exit elements and routes.

6.2 Circulation system (see Figure 1)

6.2.1 General

A circulation system comprises:

- emergency routes;
- routes and facilities for the service operators, the activity area operators, media VIP, organization and other activities;
- concourses.

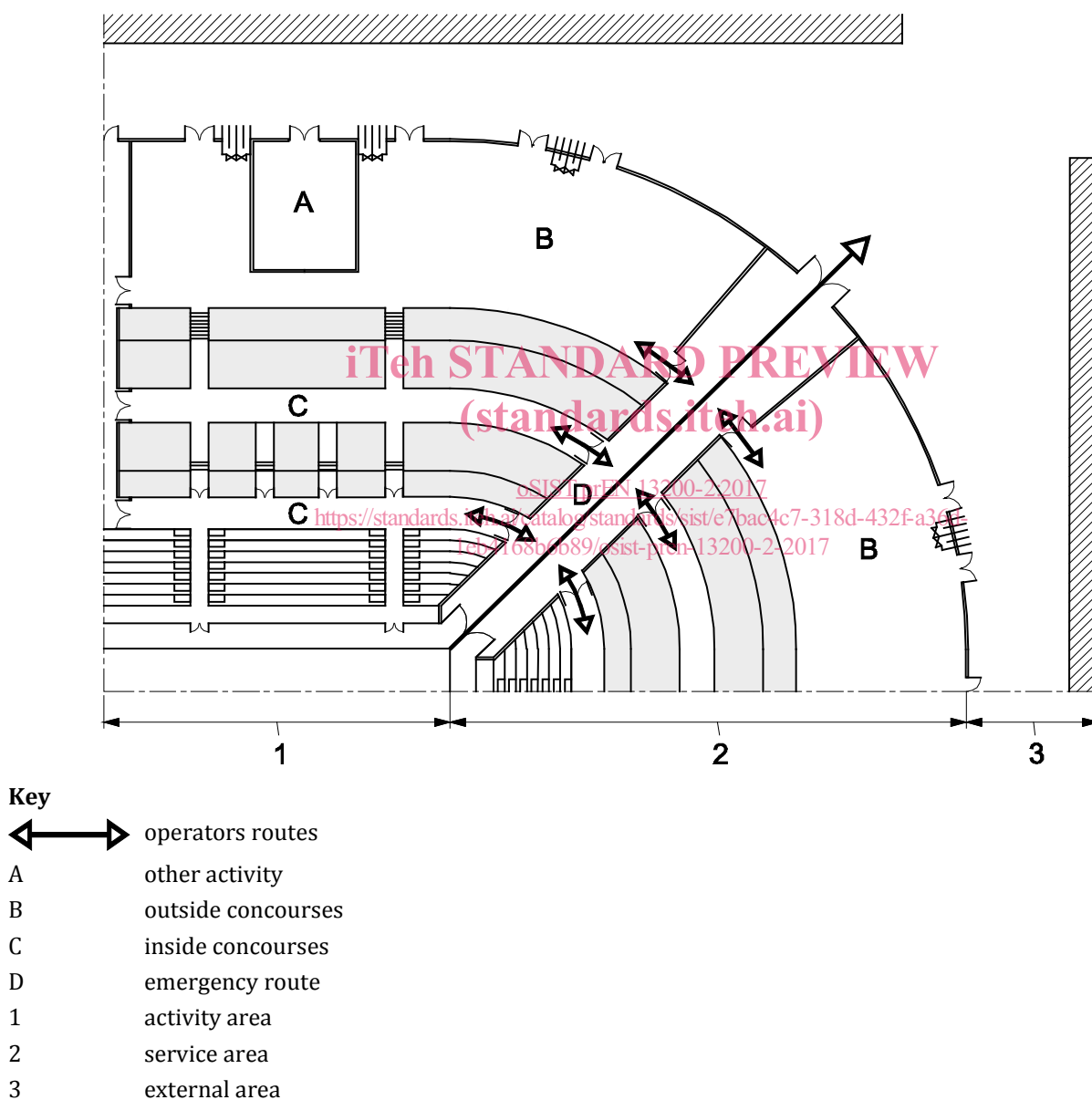


Figure 1 — Service area: circulation system

6.2.2 Emergency routes

The connection between viewing area and service area and between them with the outside shall be provided of reserved passages to prevent the presence of the public during the emergencies' operation (ambulances, fire brigade and police vehicles).

These passages shall be studied in an early design phase of the project both to provide the reserved gate to access at the emergency routes.

6.2.3 Operator's routes and facilities

The operators roots to the service rooms, the connection between sectors, the access to the playing field and emergency roots of spectator facilities, shall be separated from the spectators.

6.2.4 Concourses

Concourse shall have a maximum capacity determined by a number of people who can safely occupy a given concourse area.

Concourses inside or outside shall be provided of sufficient circulation routes (see Figure 2) in order to:

- safely evacuate the stadium in case of an emergency;
- ensure a smooth flow of people before, during and after an event;
- ensure that visitors can comfortably reach sanitary facilities, particularly when spectator activity is at its busiest.

The peak time for spectators to use concourse facilities is during the scheduled intervals, in the case of football at half time.

The recommended density of spectators in a concourse refreshment area shall be not exceed 3,3 P/m² and the queuing area shopping 2,5 P/m².

The recommended density of spectators for the queuing area outside of a sanitary facilities in a concourses shall be not exceeded 3,3 P/m² and the queuing area shopping 2,5 P/m². It is recommended that size of the concourse should be determined using a predicted occupancy level of between 30 % and 50 % of the viewing area's capacity and with a recommended density of circulation area of circulation area of 2 P/m². (See Figure 2).