



SLOVENSKI STANDARD
oSIST prEN 16194:2010
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Premične toaletne kabine brez odvajanja v kanalizacijo - Zahteve za servis in proizvode glede na uporabo kabin in sanitarnih proizvodov

Mobile non-sewer-connected toilet cabins - Requirements of services and products relating to the deployment of cabins and sanitary products

Mobile anschlussfreie Toilettenkabinen - Anforderungen an Dienstleistungen und Produkte für den Einsatz von Kabinen und Sanitärprodukten

Cabines sanitaires mobiles autonomes - Exigences relatives aux services et produits, liées à la mise en place des cabines et des produits sanitaires

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English Version

**Mobile non-sewer-connected toilet cabins - Requirements of
services and products relating to the deployment of cabins and
sanitary products**

Cabines sanitaires mobiles autonomes - Exigences
relatives aux services et produits, liées à la mise en place
des cabines et des produits sanitaires

Mobile anschlussfreie Toilettenkabinen - Anforderungen an
Dienstleistungen und Produkte für den Einsatz von Kabinen
und Sanitärprodukten

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 183.

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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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Foreword

This document (prEN 16194:2010) has been prepared by Technical Committee CEN/TC 183 “Waste Management”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

Annex A is informative.

Introduction

There has been a necessity to use mobile sanitary facilities in many locations for more than 50 years. From the early days (where they were mainly used on a wide variety of construction sites) they have, over the years, been a convenient facility at large and small events (such as the Olympic Games, the Football World Cup, World Youth Day, marathons, open-air-concerts, street festivals, weddings, during military missions, Papal visits, harvests, after natural disasters, in refugee camps, motorway rest areas, in open-cast mining, etc.).

Whenever large numbers of people congregate over a longer period in places where there are no or only insufficient stationary sanitary facilities, it has become established practice to deploy mobile non-sewer-connected toilet cabins.

Adequate provision of cabins allows people to answer “the call of nature” hygienically and in privacy.

This standard is directed at manufacturers, rental companies and renters of the cabins.

1 Scope

This standard applies to mobile toilet cabins that are not connected to a sewerage system.

It specifies requirements of the services relating to the deployment of cabins and the relevant requirements for cabins and sanitary products, taking into account hygiene, health and safety.

It specifies minimum quality requirements relating to cabins and sanitary products and also relating to the extent of cleaning required, the number of cabins to be provided, locations and cleaning/disposal intervals.

2 Terms and definitions

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

2.1

mobile non-sewer-connected toilet cabin

portable, self-contained unit with a waste tank that is not connected to a sewerage system and is intended to be used by a single person

prEN 16194:2010 (E)**2.2****sanitary product**

concentrate with sanitary effect (liquid or solid); antifreeze for the waste tank; scented oils; toilet paper

2.3**service**

planning and advice, delivery of the cabin, on-site servicing, waste disposal and collection of the cabin

2.4**on-site servicing**

specified process of cleaning, replenishment and maintenance

2.5**rental company**

company which provides planning and advice, delivery of the cabin, on-site servicing, waste disposal and collection of the cabin

2.6**renter**

companies, organizations or persons, that make use of the planning and advice service, the delivery of the cabin, on-site servicing, waste disposal and collection of the cabin

3 Types of deployment of mobile non-sewer-connected toilet cabins

Mobile non-sewer-connected toilet cabins are deployed as follows:

- for events (deployment type A);
- for military missions (deployment type B);
- for disaster-relief work (deployment type C);
- on construction sites (deployment type D);
- in agriculture, e.g. for harvests (deployment type E);
- in industry, e.g. harbours, refineries, power plants (deployment type F);
- in trade, e.g. mobile sales booths (deployment type G);
- in public areas, parks and car parking facilities (deployment type H).

4 Frequency of use, number of cabins, servicing intervals and accessibility**4.1 General provisions, except for events (deployment type A)**

The following provisions shall be part of the calculations:

- a) frequency of use per user: once within 4 hours;
- b) maximum uses per cabin between servicing: 100.

Separation by gender has not been considered in the calculation.

4.2 Construction sites (deployment type D), industry (deployment type F) and agriculture (deployment type E)

Table 1 — Number of users/cabins

No. of users	No. of cabins
1 to 10	1
11 to 20	2
Over 20	One extra cabin for every 10 additional users
Cleaning interval: The cabin shall be cleaned after 5 working days of 8 hours each.	

On ground-level construction sites the maximum distance from workplace to cabin shall not exceed 100 m. On multi-level construction sites a cabin shall be deployed on each 2nd floor.

Besides the personnel of the client, the user group includes the personnel of subcontractors.

4.3 Events (deployment type A)

Table 2 — Number of users/cabins

No. of users (50 % male and 50 % female)	Minimum number of cabins (for an event of up to 6 hours duration)	Minimum number of cabins (for an event of up to 12 hours duration)
Up to 249	2	3
250 to 499	3	5
500 to 999	6	9
1000 to 1999	12	18
2000 to 2999	25	38
3000 to 3999	38	57
4000 to 4999	50	75
5000 to 5999	63	95
6000 to 6999	75	113

Table 2 (continued)

No. of users (50 % male and 50 % female)	Minimum number of cabins (for an event of up to 6 hours duration)	Minimum number of cabins (for an event of up to 12 hours duration)
7000 to 7999	88	132
8000 to 8999	100	150
9000 to 9999	113	170
10000 to 12499	125	188
12500 to 14999	156	234
15000 to 17499	188	282
17500 to 19999	219	329
20000	250	375
Over 20000	Individual calculation required	
Cleaning interval: Intermediate cleaning or stand-by duty on site are not considered in this table. This requires individual calculation. If events last longer than 6 hours or 12 hours, the cabin shall be cleaned at intervals of 6 hours or 12 hours.		

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When alcoholic drinks are served, the number of cabins shall be increased owing to a higher frequency of use. An increase of at least 30 % is recommended.

If the percentage of female users exceeds 50 %, the number of cabins shall be increased. The increased number shall be agreed between the renter and the supplier.

For wheelchair users a minimum of one wheelchair-accessible toilet cabin shall be provided.

The location and accessibility of toilet cabins depend on the type of event and it shall be agreed between the renter and the supplier.

5 Product requirements

5.1 Mobile non-sewer-connected toilet cabins

5.1.1 General

The appearance of a mobile toilet cabin is very important, and as a criterion of quality it influences the acceptance of the cabin by the user.

The name and telephone number of the rental company shall be clearly legible on the outside of each cabin.

5.1.2 Toilet cabin

5.1.2.1 Minimum requirements

Toilet cabins shall meet the following requirements:

- suitable exterior surfaces shall be available for attaching stickers or signs;
- the interior area, measured from wall to wall, shall be at least 1 m²;
- the interior height shall be at least 2 m, measured at the highest point of the cabin;
- sufficient incidence of light shall be provided for;
- when the cabin is closed it shall not be possible to see in from outside;
- the door shall have some means of opening and closing by hand from inside and outside;
- the door shall be lockable from inside and it shall be able to be opened from outside in an emergency situation;
- the door shall be self-closing;
- an “occupied” indicator shall be available;
- there shall be a waste tank inside the cabin;
- the opening of the tank shall be fitted with a toilet-seat shape;
- the tank shall have a means of ventilation leading outside;
- the interior of the cabin shall be provided with adequate ventilation;
- a holder for sufficient toilet paper shall be available;
- there shall be a coat hook inside the cabin;
- the skids of the cabin shall be suitable for transport by a forklift or pallet truck;
- the cabin shall be washable and easy to clean (e.g. through the use of plastic surfaces and rustproof materials).

5.1.2.2 Additional requirements

5.1.2.2.1 Tank

The tank system shall be one of the following:

- drop tank (Type 1);
- recirculating flush tank with bowl and hand- or footpump (Type 2);
- fresh water-flush tank with bowl and hand- or footpump (Type 3).

prEN 16194:2010 (E)**5.1.2.2.2 Supplementary equipment**

Any supplementary equipment may include the following, among others:

a) interior:

- urinal;
- mirror;
- wash-hand basin;
- soap dispenser;
- hand disinfection dispenser;
- towel dispenser;
- lighting;
- anti-frost device;
- corner shelf.

b) exterior:

- external lock;
- transport devices such as crane hooks;
- signs for men/women.

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5.1.3 Wheelchair-accessible toilet cabin

A wheelchair-accessible cabin shall be at ground level. The door opening shall be at least 80 cm wide. The interior of the cabin shall be at least 140 cm deep and wide. There shall be a handrail inside the cabin.

The provisions on aids for forklift or pallet truck use do not apply. Otherwise the requirements as in 5.1.2.1 and 5.1.2.2 apply.

5.2 Sanitary products**5.2.1 Sanitary concentrates**

Sanitary concentrates shall be effective for at least 7 days under any weather conditions. Within this period, the following criteria shall be maintained:

- permanence of colour;
- neutralizing odour.

There shall be a safety data sheet for each sanitary concentrate. The products shall be environmentally compatible.