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Flyttbara, icke avloppsanslutna utomhustoaletter – Krav på tjänster och produkter i samband med uppställning av toaletter och sanitetsprodukter

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

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EUROPEAN STANDARD

EN 16194

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2012

ICS 03.080.30; 91.040.99

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 European Standard was approved by CEN on 14 January 2012.

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Foreword

This document (EN 16194:2012) has been prepared by Technical Committee CEN/TC 183 "Waste Management", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2012, and conflicting national standards shall be withdrawn at the latest by August 2012.

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Introduction

There has been a necessity to use mobile sanitary facilities in many locations for more than 50 years. Since the early days, where they were mainly used on various construction sites, they have, over the years, been a convenient facility at both 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 hygiene and privacy.

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

1 Scope

This European Standard applies to mobile toilet cabins (excluding dry toilets) 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.

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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 intended to be used by a single person, with a waste tank that is not connected to a sewerage system

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/owner
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 for:

- type A: events;
- type B: military missions;
- type C: disaster-relief work;
- type D: construction sites;
- type E: agriculture, e.g. for harvests;
- type F: industry, e.g. harbours, refineries, power plants;
- type G: trade, e.g. mobile sales booths;
- type H: public areas, parks and car parking facilities;
- type I: beaches;
- type J: ski slopes.

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 the input data for the calculations:

- a) frequency of use: each user may require the cabin once every 4 hours;
- b) maximum uses per cabin between servicing: 100.

Separation by gender has not been considered in the calculation.

4.2 Deployment on construction sites (type D), agriculture (type E) and industry (type F)

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
The cabin shall be cleaned at least 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.

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4.3 Deployment on events (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)
a)	Up to 249	2	3
b)	250 to 499	3	5
c)	500 to 999	6	9
d)	1 000 to 1 999	12	18
e)	2 000 to 2 999	25	38
f)	3 000 to 3 999	38	57
g)	4 000 to 4 999	50	75
h)	5 000 to 5 999	63	95
i)	6 000 to 6 999	75	113
j)	7 000 to 7 999	88	132
k)	8 000 to 8 999	100	150
l)	9 000 to 9 999	113	170
m)	10 000 to 12 499	125	188
n)	12 500 to 14 999	156	234
o)	15 000 to 17 499	188	282
p)	17 500 to 19 999	219	329
q)	20 000	250	375
r)	Over 20 000	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.

When food and 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.

Where separate male and female facilities are to be provided, adequate facilities should be provided for each sex.

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 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:

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