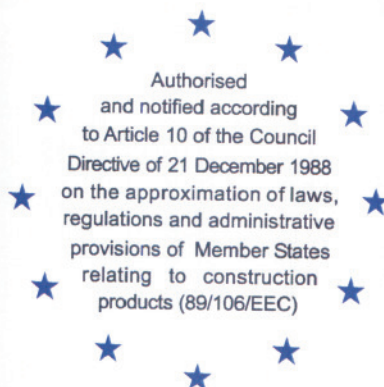


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# DIBt

Mitglied der EOTA  
*Member of EOTA*

## European Technical Approval ETA-09/0328

English translation prepared by DIBt - Original version in German language

**Handelsbezeichnung**  
*Trade name*

**Kortmann-Betonfertigteile-System 2**  
*Kortmann pre fabricated element System 2*

**Zulassungsinhaber**  
*Holder of approval*

Kortmann GmbH  
Holmers Kamp 6  
48465 Schüttorf  
DEUTSCHLAND

**Zulassungsgegenstand  
und Verwendungszweck**  
*Generic type and use  
of construction product*

**Kortmann-Betonfertigteile-System 2 aus Großplatten zur  
Verwendung in LAU-Anlagen**  
*Kortmann-Betonfertigteile-System 2, made of large slabs, used in facilities to  
storage, filling and handling of liquid chemicals (substances hazardous to  
water)*

**Geltungsdauer:** vom  
*Validity:* from  
bis  
to

4 December 2009

4 December 2014

**Herstellwerk**  
*Manufacturing plant*

Kortmann GmbH  
48465 Schüttorf  
DEUTSCHLAND

**Diese Zulassung umfasst**  
*This Approval contains*

**22 Seiten einschließlich 9 Anhänge**  
*22 pages including 9 annexes*

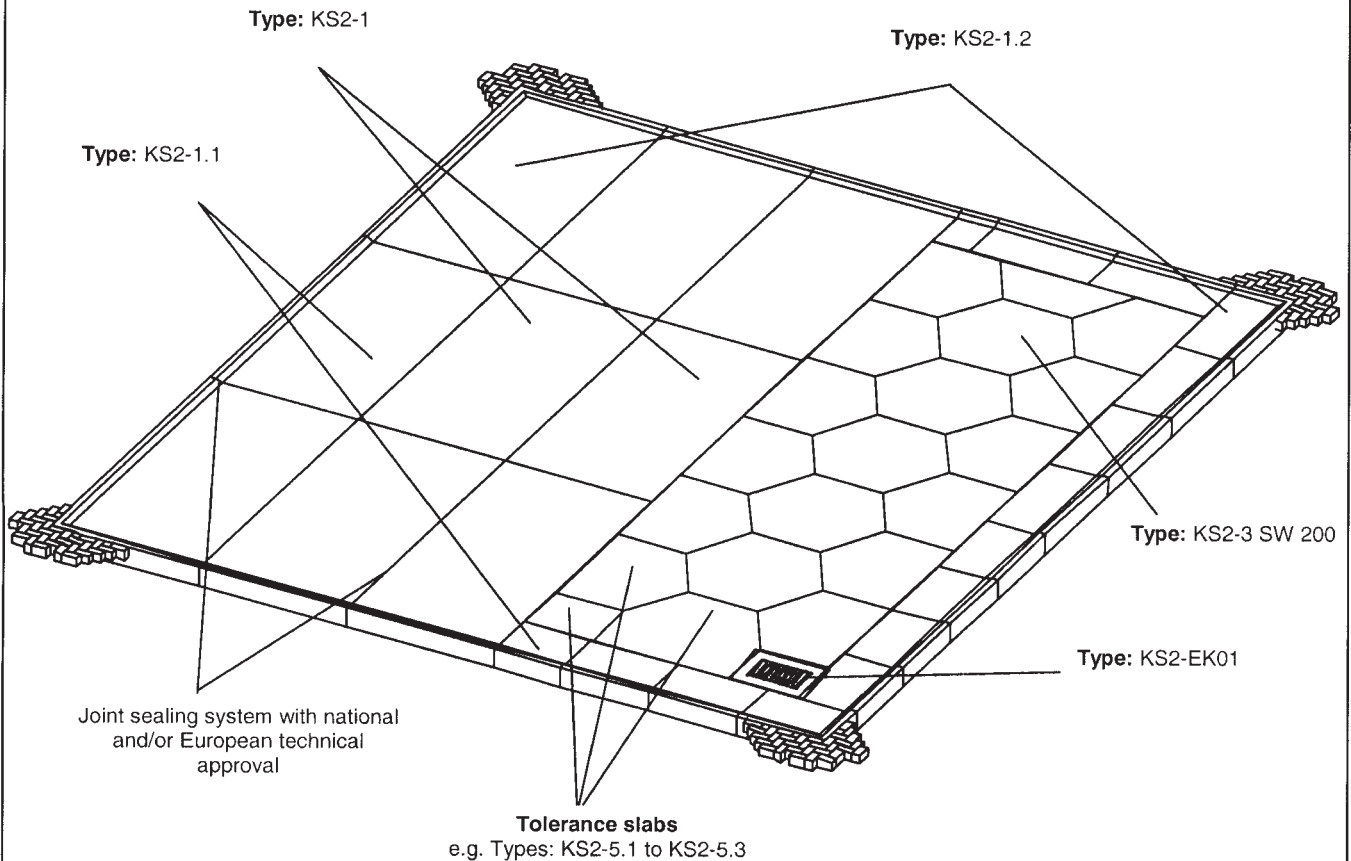


Europäische Organisation für Technische Zulassungen  
European Organisation for Technical Approvals

# Kortmann-System 2

## Concrete-Pre-Fabricated Elements for draining areas made of large slabs

to use in facilities for the storage, filling and handling of liquid chemicals  
(substances hazardous to water), trafficable



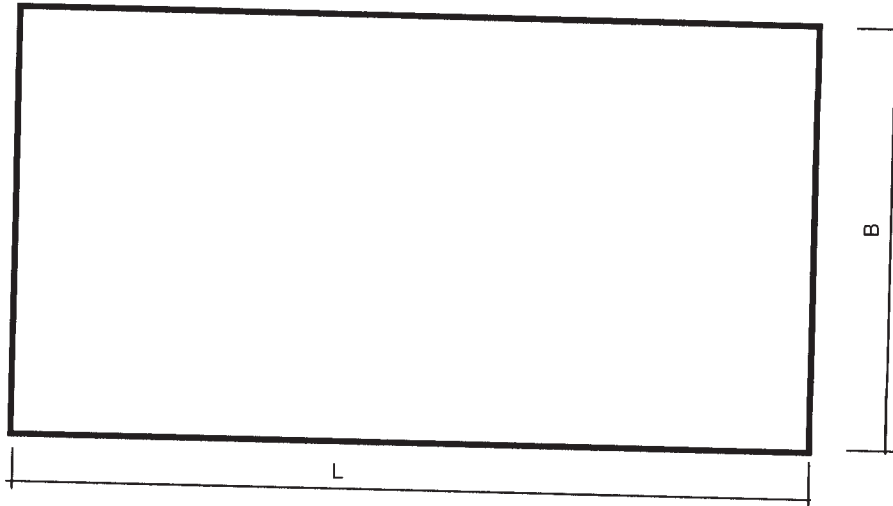
Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

**Annex 1**  
of the European  
technical Approval

Installation and/or laying examples

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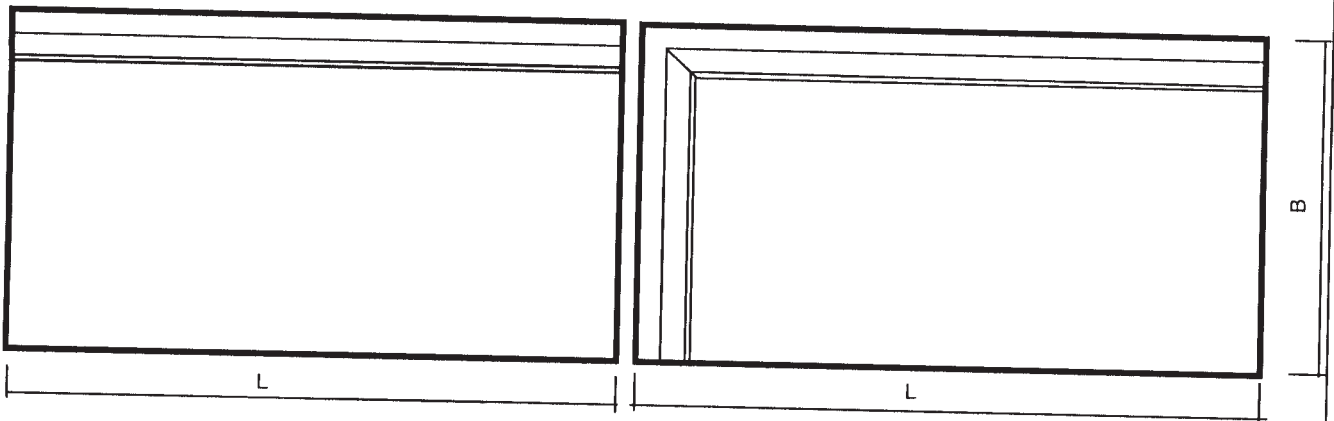
**Type KS2-1, Slab element:**



**Type KS2-2, Lowered slab element, standard and corner:**

Type KS2-2.1  
slab element, standard

Type KS2-2.2  
slab element, corner



**Table 1: Geometry of the slab elements Type KS2-1 and KS2-2**

Type	Slab length L [mm]	Slab width B [mm]	Slab thickness D [mm]
KS2-1	1500 bis 5000	1000 bis 2500	200
KS2-2.1	1500	1000	200 / 230
KS2-2.2	750 bis 5000	600 bis 2500	200 / 230

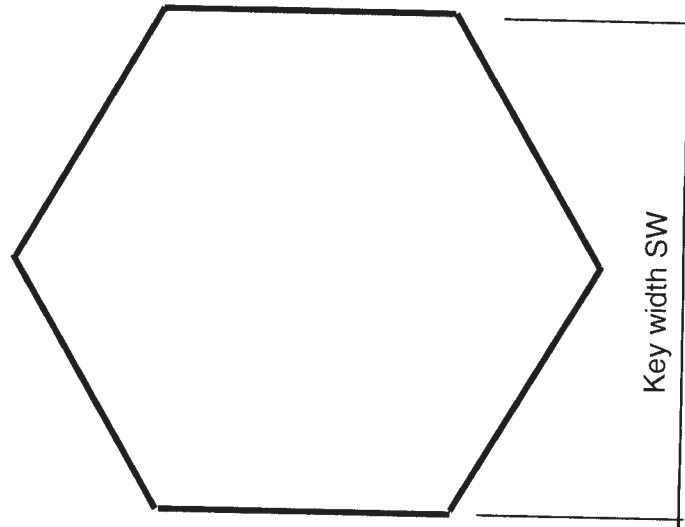
Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

Geometry of the slab elements, Type KS2-1 and KS 2-2

**Annex 4**  
of the European  
technical Approval

ETA-09/0328

**Type KS2-3 and Type KS2-4, Six corner slab element:**

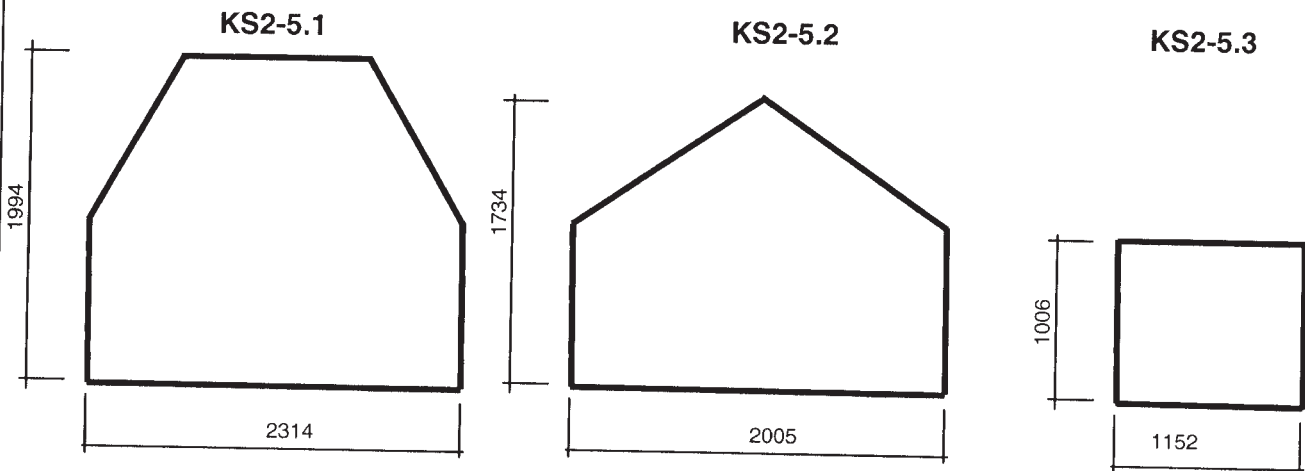


**Table 1: Geometry of the six corner slab element Type KS2-3 and Type KS2-4**

Type	Key width SW	Slab thickness D
[-]	[mm]	[mm]
KS2-3	2000	190
KS2-4 <sup>1)</sup>	500	100

1) Other geometries according to ETA-09/0320, "Kortmann-Fertigteile-System 3".

**Type KS2-5, Tolerance slabs:**



Thickness of the slab elements: 200 mm

Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

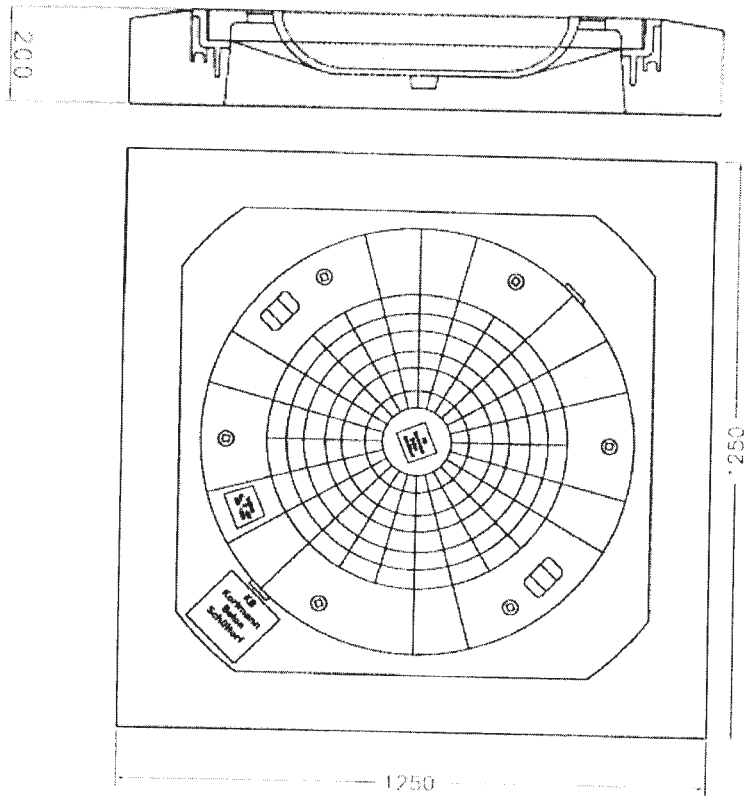
**Annex 5**  
of the European  
technical Approval

Geometry of slab elements Types KS2-3 to KS2-5

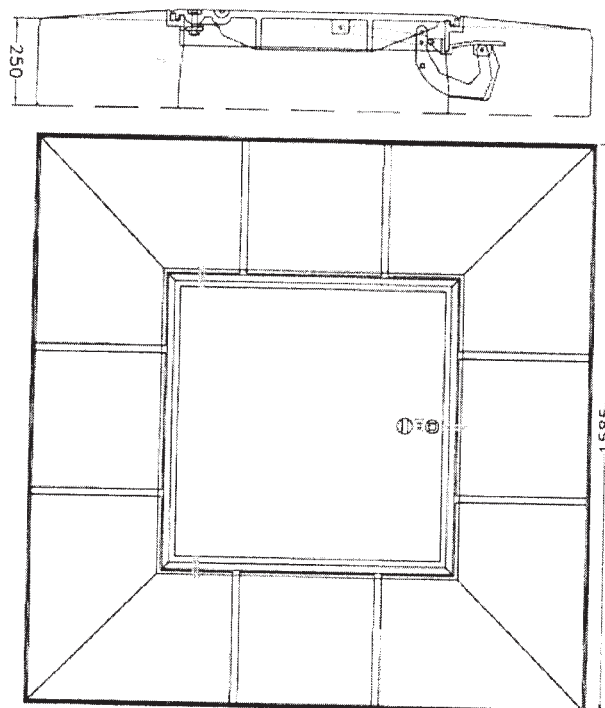
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**Type KS2-6, covering slab elements**

Type KS2-6.1, covering slab element for manhole pits:



Type KS2-6.2, covering slab element for electrical pits:



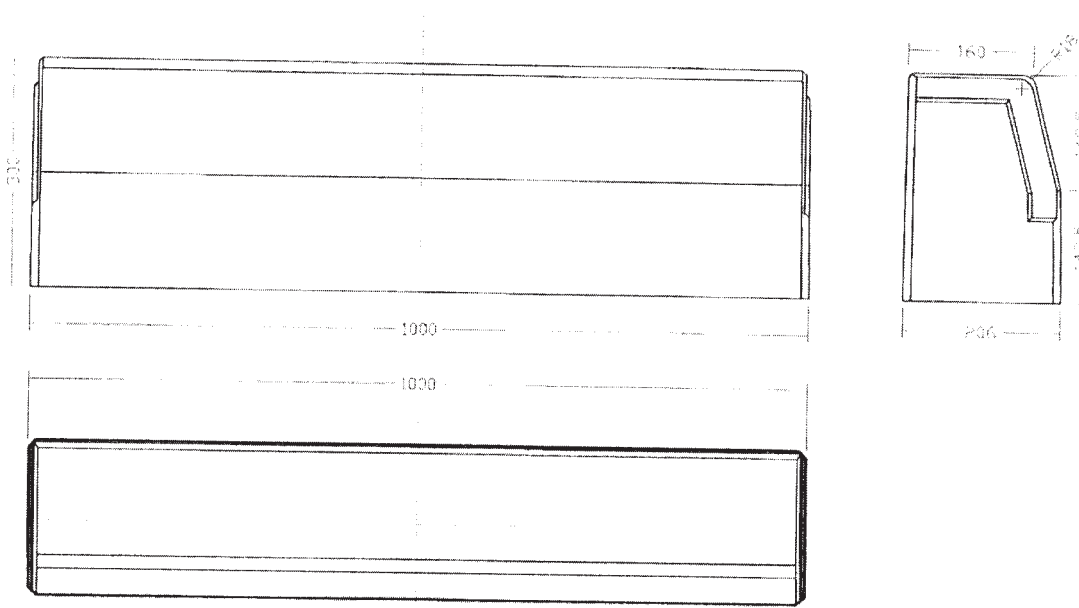
Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

**Annex 6**  
 of the European  
 technical Approval

Geometry of the covering slab element Type KS2-6

ETA-09/0328

**Type KS2-7, high board element**



**Detail of the bumper fixing**

The installation is only permitted on pre fabricated elements according to the European technical approvals ETA09/0327, Kortmann-Systeme 1 and ETA09/0328, Kortmann-Systeme 2. The covering of joint sealing systems is not permitted.



Suitable glue according to the instructions of the holder of the approval  
 The evidence of the glued bumper (e.g. vehicle bumping) has to be produced taking into account the intended use at the respective object.

Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

**Annex 7**  
 of the European  
 technical Approval

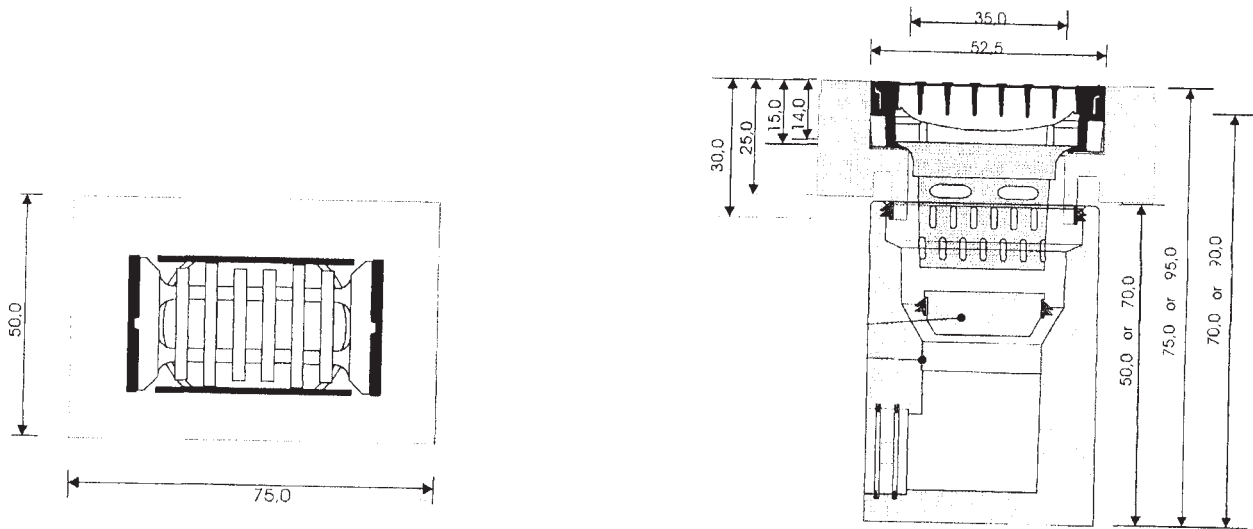
Geometry of the high board element type KS2-7 and detail of the bumper fixing

**ETA-09/0328**

**Type KS-EK01, Draining element, examples:**

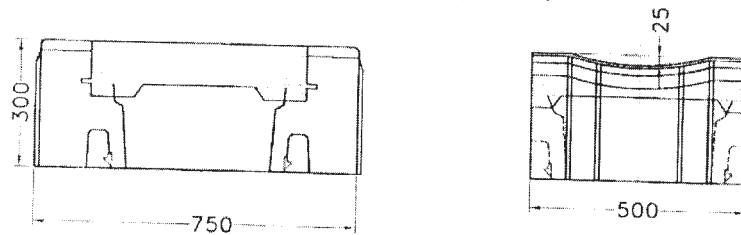
Trafficable to class D 400 <sup>1)</sup>

- head segment, standard



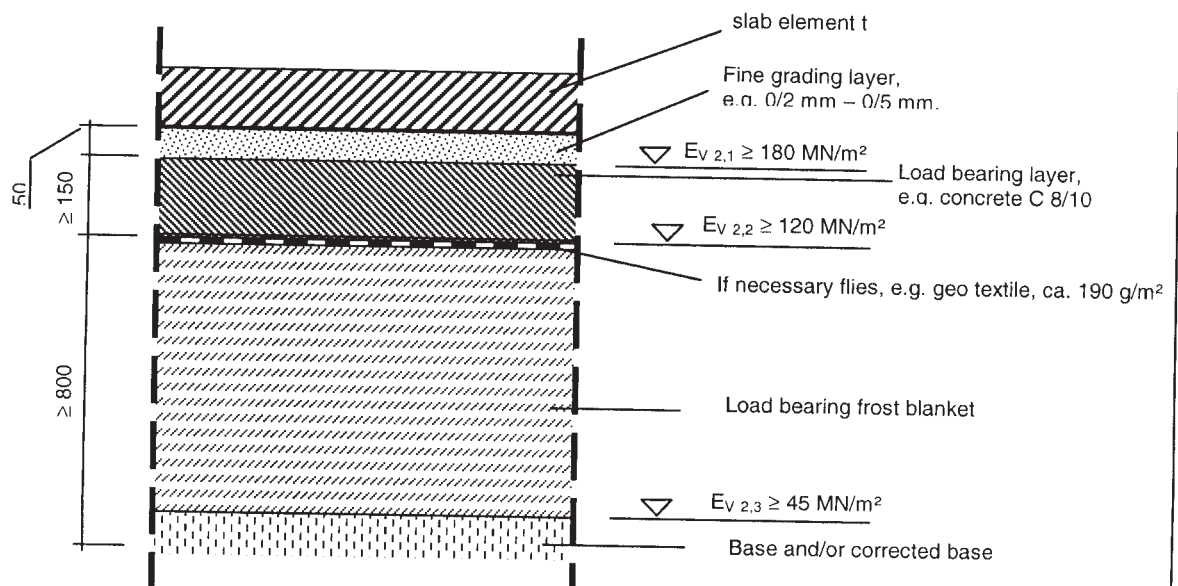
- head segment, trough connection:

(The belonging trough elements see ETA-09/0327, Kortmannsystem 1)



<sup>1)</sup> acc. EN 1433

**Basis for the slab elements:**



Kortmann-Betonfertigteile-System 2, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

**Annex 8**  
of the European  
technical Approval

Geometry of the draining elements and basis for the elements

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