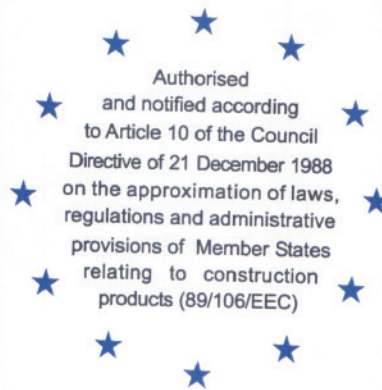


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DIBt

Mitglied der EOTA
Member of EOTA

European Technical Approval ETA-09/0327

English translation prepared by DIBt - Original version in German language

Handelsbezeichnung
Trade name

Kortmann-Betonfertigteile-System 1
Kortmann pre-fabricated element System 1

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 1 zur Verwendung in LAU-
Anlagen
*Kortmann-Betonfertigteile-System 1 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
Holmers Kamp 6
48465 Schüttorf

Diese Zulassung umfasst
This Approval contains

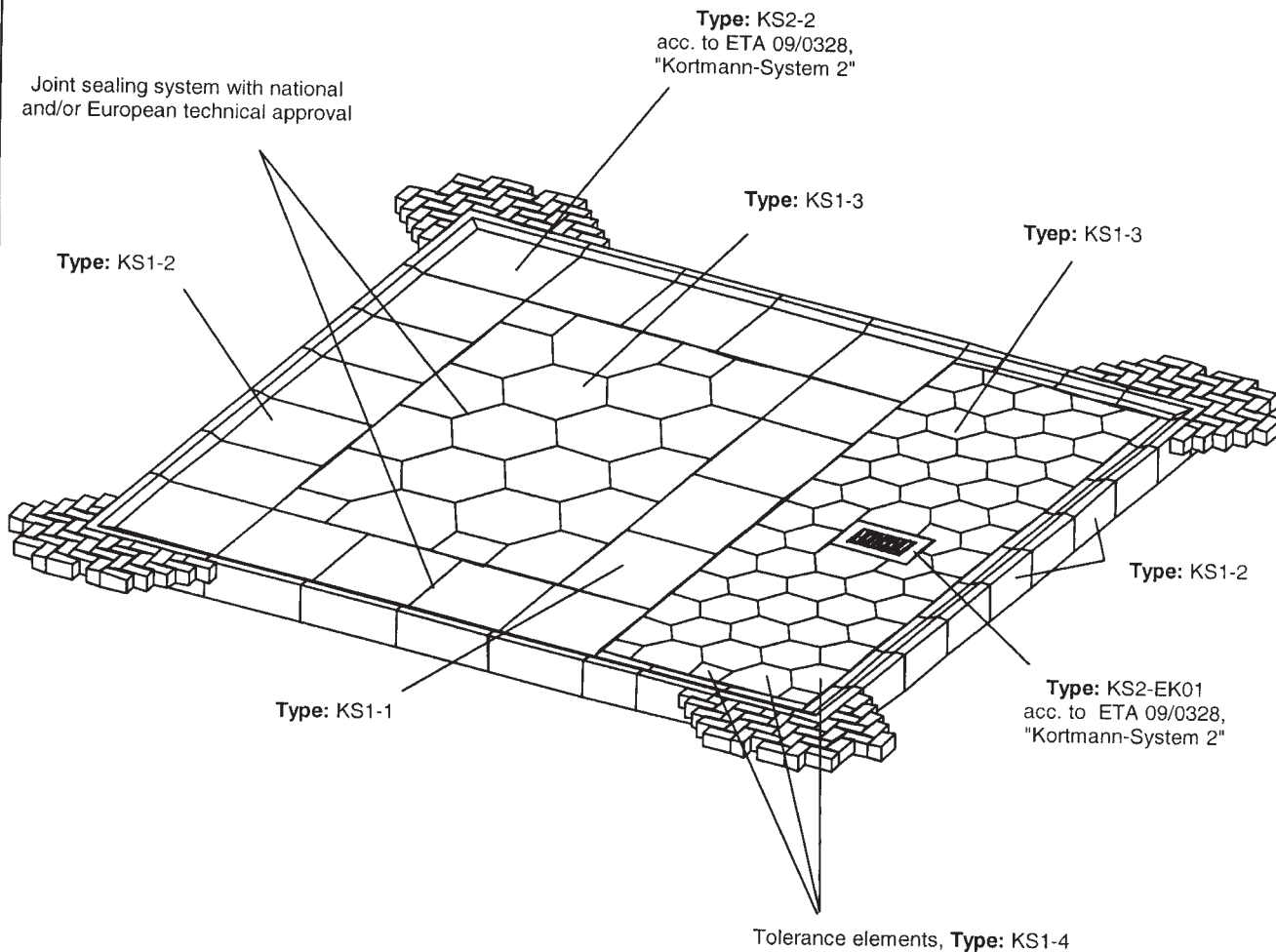
21 Seiten einschließlich 8 Anhänge
21 pages including 8 annexes



Europäische Organisation für Technische Zulassungen
European Organisation for Technical Approvals

Kortmann-System 1 Concrete-Pre-Fabricated Elements for draining areas

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



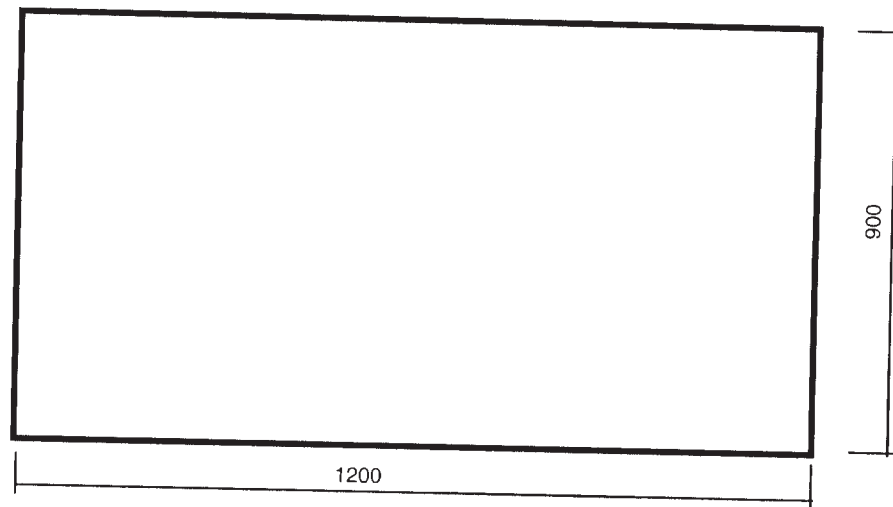
Kortmann-Betonfertigteil-System 1, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

Annex 1
 of the European
 technical Approval

Installation and/or laying examples

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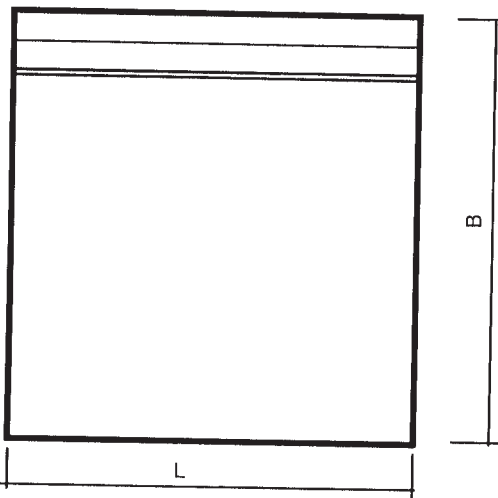
Type KS1-1, Slab element:



Thickness of the slab elements: 230 mm

Type KS1-2, Lowered slab element, standard and corner:

Type KS1-2.1



Type KS1-2.2

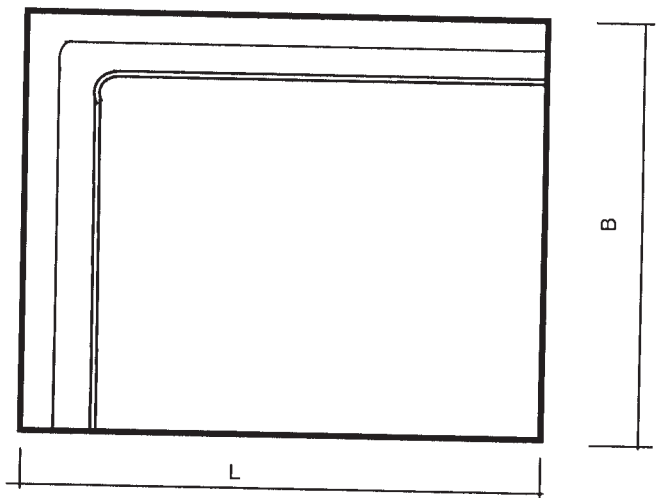


Table 1: Geometry of the slab elements Type KS1-2

Type	Slab length L [mm]	Slab width B [mm]	Slab thickness D [mm]
KS1-2.1	600 to 1200	300 to 900	200
KS1-2.2		300 to 1200	

Kortmann-Betonfertigteile-System 1, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

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Geometry of the slab elements Type KS1-1 and Type KS1-2

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Type KS1-3, Six corner slab element:

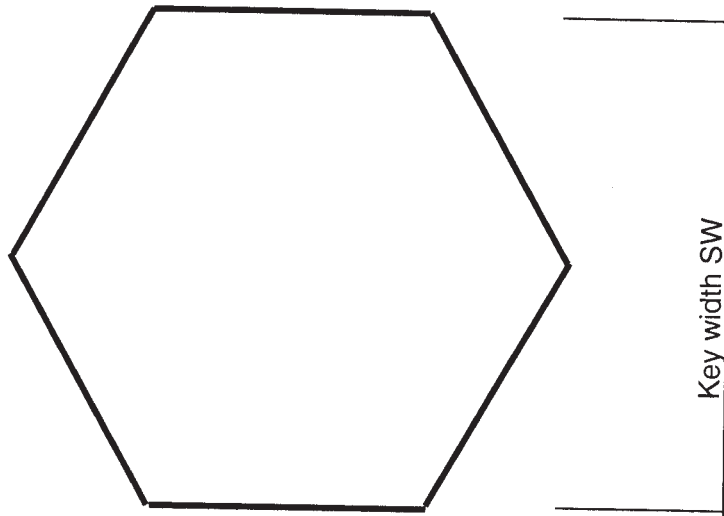
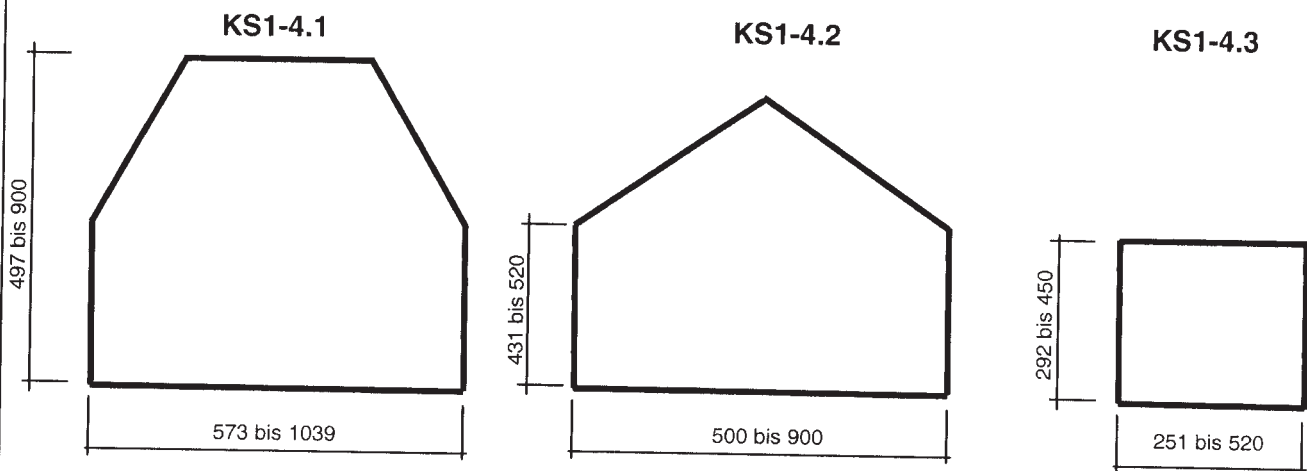


Table 1: Geometry of the six corner slab element Type KS1-3

Type	Key width SW	Slab thickness D
[-]	[mm]	[mm]
KS1-3	500 bis 900	100 bis 140

Type KS1-4, Tolerance slabs:



Thickness of the slab elements: 100 mm to 140 mm

Kortmann-Betonfertigteile-System 1, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

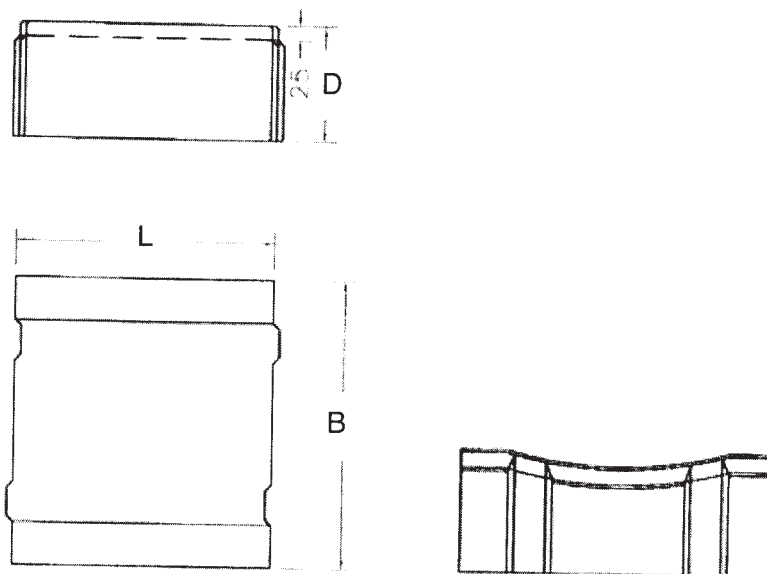
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Geometry of the slab elements Type KS1-3 and Type KS1-4

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Type KS1-5, Trough elements ¹⁾:

Type KS1-5.1, Trough element, standard:



Type KS1-5.2, Trough element, corner:

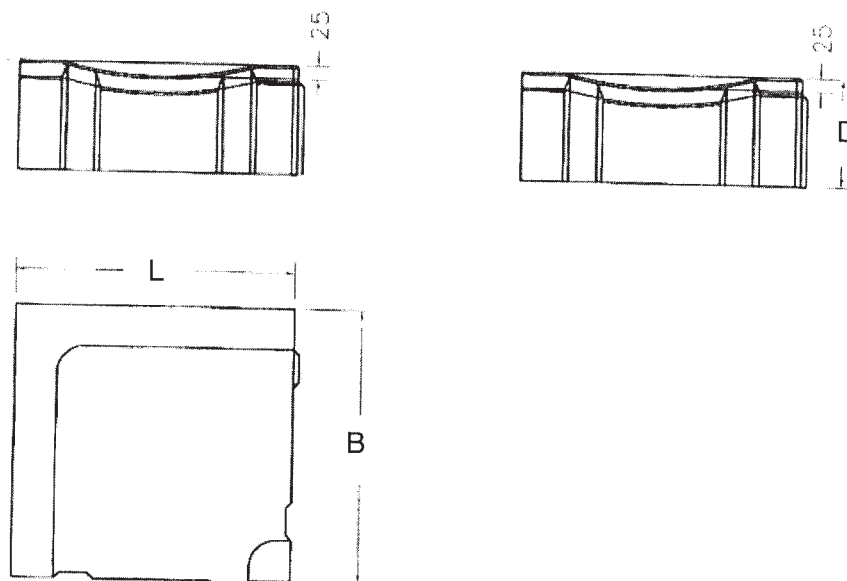


Table 1: Geometry of the trough elements of Type KS1-5

Type	length L [mm]	width B [mm]	thickness D [mm]
KS1-5.1	440 bis 880	500	200
KS1-5.2			

¹⁾ The belonging draining elements for the drainage of the trough system see ETA-09/0328, Kortmannsystem 2.

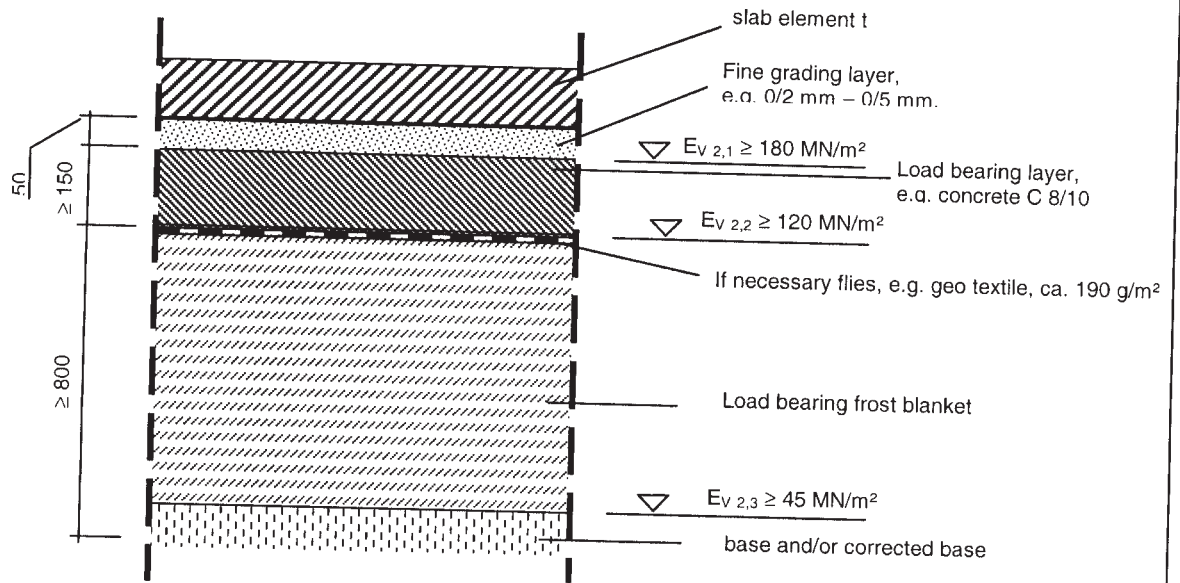
Kortmann-Betonfertigteile-System 1, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

Annex 6
of the European
technical Approval

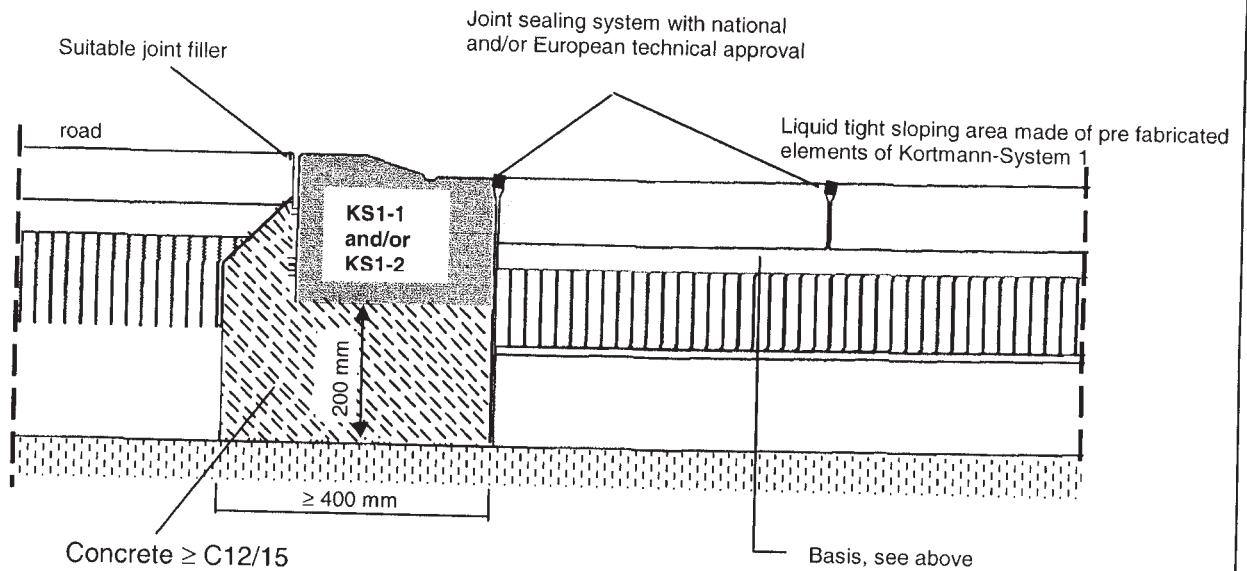
Geometry of the slab elements Type KS1-5

ETA-09/0327

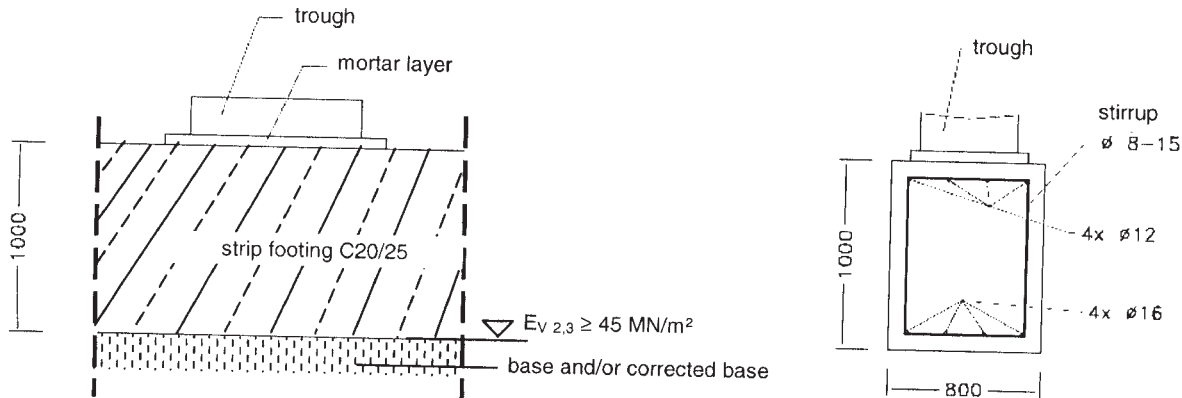
Basis of the slab elements:



Basis of slab elements, detail:



Basis of the trough elements:



Kortmann-Betonfertigteile-System 1, made of concrete, to use in facilities for the storage, filling and handling of liquid chemicals (substances hazardous to water)

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of the European
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Basis for the elements

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