

# Kassel Kerb®

= the solution for bus and tram stops without barriers!



**PROFILBETON**



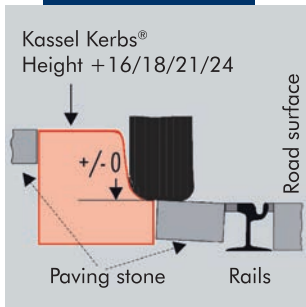
When building bus and tram stops without barriers, the Kassel Kerb® constitutes an important part of the barrier-free chain of mobility at the interface between a bus and tram stop and the vehicle.

- |  |   |  |   |   |
|--|---|--|---|---|
| <b>Simple</b>                                    | — | <b>safe</b>                                | — | <b>barrier-free</b>                               |
| <input checked="" type="checkbox"/> installation |   | <input checked="" type="checkbox"/> access |   | <input checked="" type="checkbox"/> for everybody |

# Kassel Kerb®: innovative – barrier-free

The Kassel Kerb® constitutes an acknowledged, important part of the chain of mobility when designing bus and tram stops without barriers in connection with low-floor vehicles. The unique kerbstone system for bus and tram stops, Kassel Kerb®, has been certified as BARRIER-FREE by DIN CERTCO. Bus and tram stops, which have been equipped with Kassel Kerb®, ensure user-friendly and barrier-free public transport – and not just for people with reduced mobility.

Based on long-term experience in numerous countries, the Profilbeton team is looking forward to being your competent, proven and reliable partner, from the pre-planning stage to the completion of bus and tram stops without barriers. In this framework the Kassel Kerb® constitutes an essential element when equipping bus and tram stops without barriers.



## Kassel Kerb®:

### Unrestricted mobility due to the ideal building block

The requirement „Accessibility for All“ has to be an integral part of the planning process from the start, according to modern standards of the conception of public transport systems and the corresponding infrastructure. This will ensure the accessibility and enhanced use of public transport. This claim for bus and tram stops without barriers in public transport systems is based on the Behindertengleichstellungsgesetz and has been incorporated in different sets of regulations [DIN 18 030 (2/2) and DIN 32 984 (2/4)].

The Kassel Kerb® is manufactured with a high level of quality and functionality. It is made of high-quality, white concrete and its product performance fulfils the requirements of DIN EN 1340 in connection with the new version of DIN 483 to its full extent. The kerbstone is available in different heights and with various transition options, which are coordinated with the conditions on site. On demand, kerbstones dyed to individual specifications can be manufactured. The use of different materials, e.g. granite, is also possible.

By using Kassel Kerbs® you will be the owner of a low-maintenance and durable bus and tram stop kerb. The design of the Kassel Kerb® prevents displacement, so that an accelerating bus cannot move the kerbstone from its position, as the full weight of the vehicle keeps it there.

Furthermore, the smooth surface of the Kassel Kerb® provides an optimum guiding effect, with tyre abrasion kept to a minimum. The resultant minimum step and gap between the bus or tram entrance and exit doorways and the platform significantly reduces the time taken by boarding and alighting passengers at stops.

## Accessibility for ALL!

Accessibility means the equal, independent and safe use of public transport systems by everyone, irrespective of age or mobility impairment.

The Kassel Kerb® was tested according to DIN 18024-1, 1998-01 dealing with the barrier-free design of bus and tram stops and was the only European kerbstone system to be certified by DIN CERTCO, Reg.-Nr. P1B031/03 „BARRIEREFREI DIN geprüft“.

The test by DIN CERTCO put special emphasis on the needs of people in wheelchairs, or with restricted walking ability, those with other types of mobility restrictions, older people, children and those of short or tall stature, blind and visually impaired people.

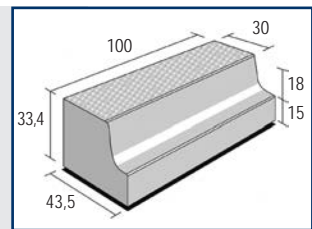
# Product range (Excerpt)

The kerbstones at a height of 18 cm are shown. Other system and accessory stones are available.

## Basic types

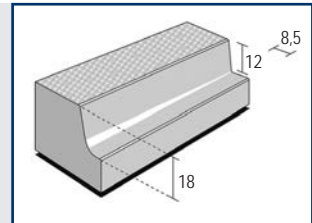
Kerb heights: 16 cm / 18 cm / 21 cm / 24 cm  
Standard length: 100 cm (nominal size incl. joint)

Other dimensions are possible!



## Transitions

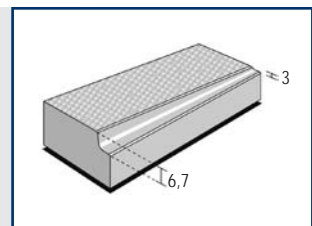
Miscellaneous designs and heights are available!  
E.g. to cross-section HB, to connecting height 14 cm or without gradient.



## Ramp set (Fig. lowest ramp stone)

Connecting height: 3 cm (also available in 1 cm)

Gradient: max. 6 % for a ramp length of 300 cm  
7,5 % for a ramp length of 200 cm

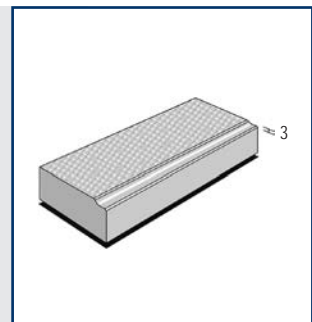


## Flat type

The flat type is especially suitable for lowered kerbs in the range of crossings and driveways.

Connecting height: 3 cm (also available in 1 cm)

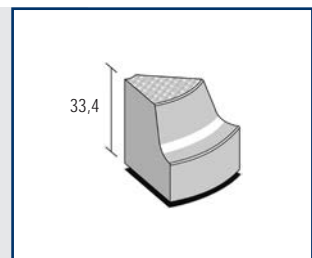
In the range of crossings a special crossing kerbstone is available.



## Curve stones

Curve stones as inside bends (concave) and outside bends (convex) are available in different radii and angles.

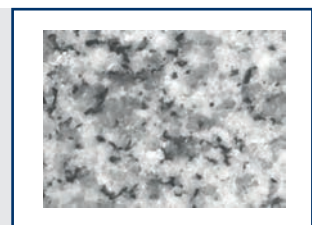
Standard radii: 50 cm, 100 cm, 200 cm, 1.000 cm (only convex)  
Greater radii are available as traverse.



## Granite kerbstones

For the execution in granite, the stepping surface has been scorched non-skid and the self-guiding surface has been honed.

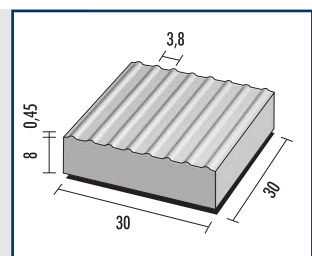
Different granites are available.



## Guiding system for the blind

Grooved plates made from fibre concrete: grooved fibre concrete plate in white or anthracite.

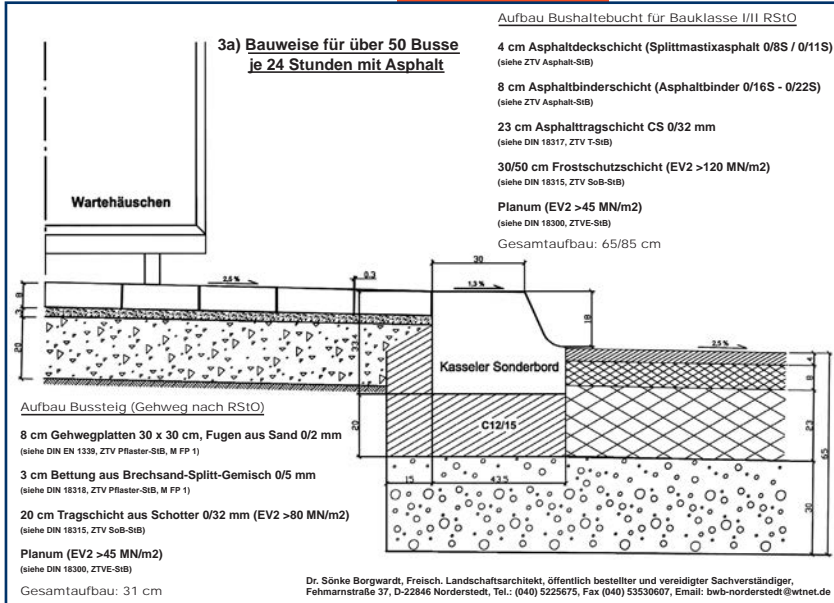
Alert markings are available as serrated plates.





# Kassel Kerb®:

Installation – as economical as the DIN – kerbstone



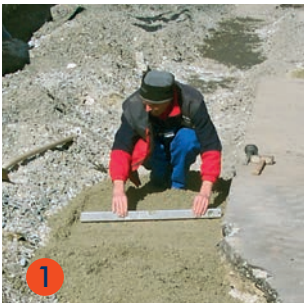
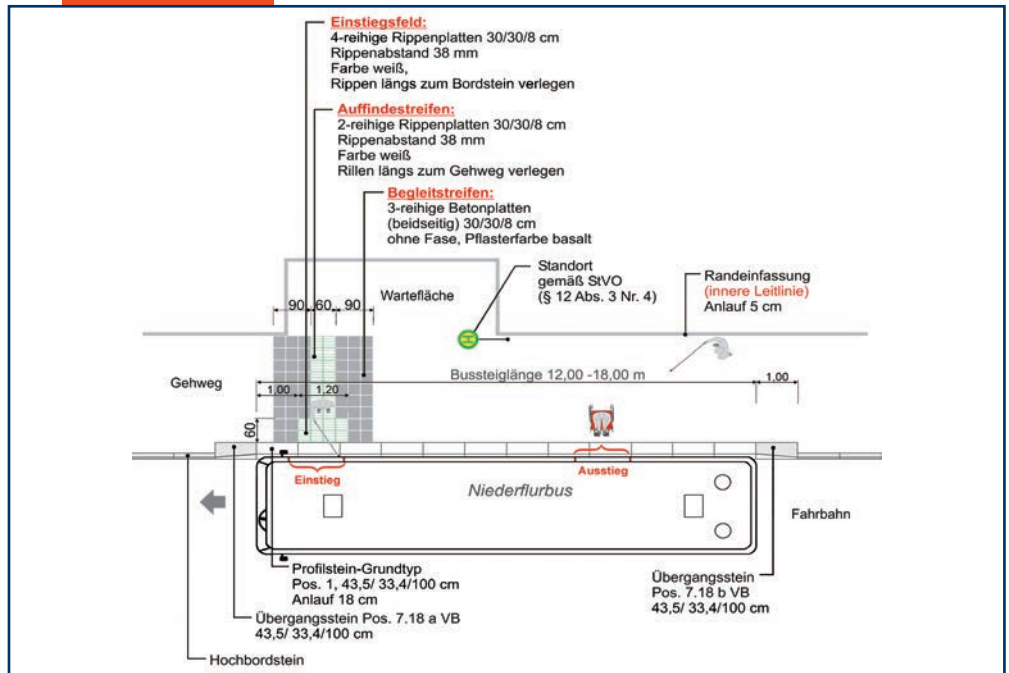
## Excerpt installation notes

... For the installation of kerbstones in circulation areas DIN 18318 applies.

Accordingly kerbstones have to be mounted on a foundation with a height of at least 20 cm with a backing of concrete C12/15, flush in height and alignment. The kerbstones have to be laid with butt joints of a width of at least 5 mm ...

## Installation conforming to standards

Thanks to the detailed installation instructions by Profilbeton an installation conforming to all relevant standards is no problem.



## Installation

- 1 Preparation of the base according to installation instructions
- 2 Flush laying of the Kassel Kerb®
- 3 Laying according to installation instructions/ installation plan
- 4 Finished bus and tram stop system

In this context we would like to point out that the laying is easily and economically possible, using existing lifting devices such as kerbstone grippers or a vacuum-lifter.

# Kassel Kerb®:

Stops with the ideal kerb exist all over Europe

Aberdeen Almelo Almere  
Altstätten Amsterdam Angers  
Annecy Antwerpen Arnstadt  
Aschaffenburg Aschersleben  
Aue Auerbach Augsburg Bad  
Berka Bad Harzburg Bad Hers-  
feld Bad Kissingen-Garitz  
Bad Kreuznach Bad Langen-  
salza Bad Saarow Bad Vilbel  
Bad Wildungen Baden-Baden  
Bargteheide Bautzen Bayreuth  
Bedford Berlin Besançon  
Bingen

Fulda Fürstenfeldbruck Gent  
Gera Gießen Glasgow Görlitz  
Goslar Gotha Göttingen Graz  
Greiz Grenoble Großburgwedel  
Groß-Gerau Gunzenhausen  
Güstrow Hagenow Homberg  
Halle Hamburg Hameln Hanau  
Hannover Heerbrugg Heerlen  
Heidenheim Heilbad Heiligenstadt  
Heilbronn Hengelo Henningsdorf  
Henstedt Ulzburg Heppenheim  
Herzogenaue Hildesheim

Neustadt Neustrelitz Neu-Ulm  
Nice Norderstedt Nordhausen  
Nürnberg Oberried Obersdorf  
Offenbach Oranienburg Orleans  
Ostende Ostrava Paderborn  
Pordenone Pforzheim Pirna  
Plauen Poissy Potsdam Prenzlau  
Radeberg Ravensburg Regensburg  
Reims Remscheid Reutlingen  
Ribnitz-Damgarten Rottweil Ru-  
dolstadt Rüsselsheim Saalfeld  
Saarlouis Salzgitter Sangershau-  
sen Schleswig Schrobenhausen  
Schwabach Schweinfurt  
Schwerin Schwet-



Birmingham Bonn Borken  
Bramsche Brandenburg Braun-  
schweig Breda Bremen Brest  
Brighton Brno Brüssel Buchholz  
Burg Cardiff Celle Chemnitz  
Cottbus Coventry Crimmitschau  
Darmstadt Delmenhorst Des-  
sau Detmold Dijon Dillingen  
Dillingen-Diefflen Dingelstädt  
Donauwörth Dresden Düs-  
seldorf Eberswalde Edinburgh  
Eisenach Eisenhütten-stadt Eisleben  
Emden Enschede Erfurt Erlangen  
Esslingen Feldkirch Forchheim  
Frankfurt/Oder Freiburg Fritzlar

Hilpoltstein  
Homberg / Efze Hoyerswerda  
Idstein Ilmenau Ingolstadt Jena  
Kaiserslautern Kassel Konstanz  
Korbach Kreuztal Landeck-Tirol  
Landstuhl Le Mans Leinefelde  
Leipzig Liverpool London Lüb-  
benau Lübeck Ludwigshafen  
Lüneburg Luxembourg Lyon  
Magdeburg Manchester Marburg  
Meerane Meißen Memmingen  
Merseburg Metz Mönchenglad-  
bach Montbéliard Mühlhausen  
Muri Neubrandenburg Neuss

zingen  
Seebad  
Ahlbeck Sie-  
gen Sigmaringen  
Singen Solingen Son-  
dershausen Sonneberg  
Stade Stendal Stralsund Stras-  
bourg Teltow Troisdorf Tübingen  
Ulm Vaduz València Villingen  
- Schwenningen Waren Weimar  
Wernigerode Wetzlar Wismar  
Wittenberg Wolfenbüttel Wolfs-  
burg Worbis Worcester Worms  
Würzburg York Zittau Zossen  
Zug Zürich Zweibrücken Zwole



The Kassel Kerb®  
is protected by a European Patent



The quality management system has been  
certified according to DIN EN ISO 9001



Compliant to  
DIN EN 1340/DIN 483

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