

# Evaluation

Project

**21739\_2 Condensed version**

**MKT Wedge anchor BZ plus in concrete  
with strength classes up to C80/95**

Customer

**MKT  
Metall-Kunststoff-Technik GmbH & Co KG  
Auf dem Immel 2  
67685 Weilerbach**

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## 1 General

MKT GmbH & Co. KG has assigned the Ingenieurbüro Thiele to evaluate the wedge anchor BZ plus, sizes M10, M12 and M16, in concrete with strength classes up to C80/95. This evaluation is based on test results established in the laboratory at MKT and supervised by the TU Kaiserslautern. Base of this evaluation is [2].

## 2 Literature

- [1] ETA-99/0010 from 23 July 2018, Bolzenanker BZ plus und BZ –IG, DIBT Berlin.
- [2] Gutachten 21739, MKT Bolzenanker BZ plus in Betonen mit Festigkeitsklassen bis C80/95, Ingenieurbüro Thiele, 30.10.2018.

## 3 Product description

The product is described in [1]

## 4 Final evaluation

The wedge anchor BZ plus, sizes M10, M12 and M16 (zinc coated, sherardized and stainless steel) can also be used in concretes with concrete strength classes up to and including C80/95 (corresponds to a maximum cube strength of 105 N/mm<sup>2</sup>). The anchor design has to follow the concrete strength class C50/60. It is not allowed to increase the resistances in comparison with the values of the technical approval. This is valid for cracked as well as for uncracked concrete. Details regarding the fire resistance that are listed in [1] can be applied for C80/95 as well. The anchor sizes M8, M20 and M24 are not part of this evaluation.

Drawn up in Pirmasens, 30. October 2018



Dr.-Ing. Catherina Thiele