



# CONNETTORE 20 e 38 IN ACCIAIO



## PRODUCT DESCRIPTION

Mechanical steel dowel connector with electrolytic zinc plating, complete with upper circular washer, threaded shank, and stop collar, for precise positioning on the laying surface. The item is available in two versions: CONNECTOR 20 and CONNECTOR 38.

## PRODUCT APPLICATION

- Connection between existing structures and new waterproofing protective and/or confinement slabs (e.g. fibre-reinforced concrete)
- Anchoring to mortar supports or concrete castings

## ADVANTAGES

- Allows for the absence of reinforcement mesh in combination with thin fibre-reinforced mortars. In the presence of metal meshes, it does not require fixing to them
- Quick and precise installation thanks to the stop collar, which ensures correct positioning

## PREPARATION AND APPLICATION

### Preparing the surfaces

Remove any surface roughness near the connector fixing point.

## Application

### STEEL CONNECTOR 20

Mark the position on the installation surface for fixing the connectors based on the predefined calculation centre distance.

Make the hole with a drill and 12 mm drill bit, depth 65 mm, remove the resulting dust via aspiration or blowing compressed air into the hole.

Insert the steel connector into the hole, fixing it with BI FIX 300 chemical anchor (see relative technical data sheet).

Otherwise in case of a concrete support, it is possible to tighten the connector directly to it using an 8 mm bit and an electric impact screwdriver or with stroke end clutch.

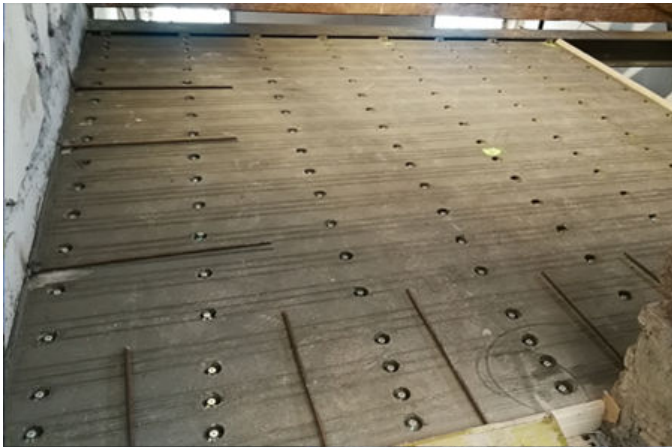
### STEEL CONNECTOR 38

Mark the position for fixing the connectors on the application surface according to the predefined calculation centre distance, setting up the electro-welded mesh (if provided) on the substrate as reference, so as to prevent the connector from coming into contact with it.

Drill the hole using a drill and a 14 mm bit to a depth of 150 mm, then remove the resulting dust by vacuuming or by blowing compressed air into the hole.

Insert the steel connector into the hole, fixing it with BI FIX 300 chemical anchor (see relative technical data sheet).

In the presence of fibre mesh, provide for its insertion after laying the connectors.



References available at [www.volteco.com](http://www.volteco.com)

## PACKAGING AND STORAGE

The steel connectors are sold individually.

## WARNINGS - IMPORTANT NOTES

Do not remove the connector in the seat during the setting of the chemical anchoring.

Comply with the temperatures required by the chemical anchor to fix the connectors.

In damp environments, avoid placing the electro-welded mesh in direct contact with the connectors to avoid corrosion due to galvanic current.

## PHYSICAL AND TECHNICAL SPECIFICATIONS

### CONNETTORE 20

Specification	Values
Nominal diameter of head washer	22.0 mm
Nominal thickness of head washer	4.0 mm
Total length of connector	80.0 mm
Insertion length	60.0 mm
Threaded section length	60.0 mm
Protruding section length	20.0 mm
Nominal diameter of shank	10.5 mm
Resistant diameter of shank	7.2 mm
Characteristic tensile strength	32.7 kN
Characteristic shear strength	16.3 kN

### CONNETTORE 38

#### Steel shank

Specification	Values
Total length of connector	185.0 mm
Insertion length	147.0 mm
Threaded section length	117.0 mm
Protruding section length	38.0 mm
Nominal diameter of shank	13.0 mm
Resistant diameter of shank	12.1 mm
Characteristic tensile strength	36.2 kN
Characteristic shear strength	24.1 kN

#### Head washer steel

Specification	Values
Nominal diameter of head washer	50.0 mm
Nominal thickness of head washer	6.0 mm
Characteristic yield strength	178.5 Mpa
Characteristic breaking strength	440.0 Mpa

## CONSUMPTION AND YIELD

---

BI FIX 300 fixing resin consumption:

CONNECTOR 20: 1 x 300 cc cartridge for approximately every 52 connectors (ref. hole depth 65 mm).

CONNECTOR 38: 1 x 300 cc cartridge for approximately every 17 connectors (ref. hole depth 150 mm).

## WATCH VIDEOS AND INSIGHTS

---

Safety Data Sheets

Declaration of  
performance

Specifications

Technical drawings  
and BIM

EPD Declaration

YouTube Video



## SAFETY

---

Refer to the related Safety Data Sheet.

## COPYRIGHT

---

© Copyright Volteco S.p.A. - All rights reserved.

Information, images and text found in this document are exclusive property of Volteco S.p.A.

They may change anytime without prior notice.

Updated versions of this and other documentation (specification, brochure, other) are on [www.volteco.com](http://www.volteco.com).

In case of translation text may contain technical and linguistic inaccuracies.

## LEGAL NOTES

---

Note for buyer/installer:

This document prepared by Volteco S.p.A. is provided as an aid and guideline for the buyer/installer.

This does not take into consideration the details of each single operational context, for which Volteco S.p.A. will not be held liable.

This does not change and does not extend the obligations of Volteco S.p.A.

It may vary and the installer is therefore required to update his/her information prior to each application by referring to [www.volteco.com](http://www.volteco.com).

The above clarifications extend to the pre-post-sales technical/commercial information of the commercial network.

