

HEROULTEC

Precast connection solution



Dextra

Product features

Groutec is a mechanical splicing system with one threaded end specially designed for the connection of pre-cast concrete elements. Designed and manufactured in compliance with Eurocode 2, BS 8110, ACI 318, IBC, AASHTO.

Typically, the rebar connected on the threaded side and the cavity side are of the same diameter. However, Groutec can also be used to make a transition between rebar of different sizes. Please refer to our installation instructions for the list of possible combinations.

Benefits

- Easily connect two precast elements with no requirement for in situ wet concrete joint.
- Compact and economical splicing solution with one threaded end compatible with Bartec, Fortec, Rolltec or Griptec type thread.
- Can be used with non-shrink grout easily available from major manufacturers. Groutec has been successfully tested with
 - Sika214 from SIKA
 - Lanko 701 from PAREX-DAVCO
 - Cemrok EasiFlow from POZAMENT
 - Conbextra GP from FOSROC *
 - MasterFlow 870 from BASF
- The same coupler model can also be used for the connection of different diameters (transition splices).

Note: (*) Dextra is not the owner of the brands mentioned here. These protected trademark rights remain the entire exclusivity of their respective owners and are only mentioned here as a reference in relation with Dextra products.

Two alternative designs

Groutec L

for « Large tolerance », aims at easing your site operation by allowing a larger axial misalignment tolerance.



Allows connection of continuation bars that are not perfectly aligned: Misalignments of up to 12mm for small bars (Ø12-Ø20), up to 20 mm for medium bars (Ø25) and up to 25 mm for large bars (Ø28-Ø40) can be accommodated.



Groutec L
« Large tolerance »

Groutec S

for « Slim body », allows precasters to create slim columns and panels. Your grout consumption and preparation time will also be significantly reduced.



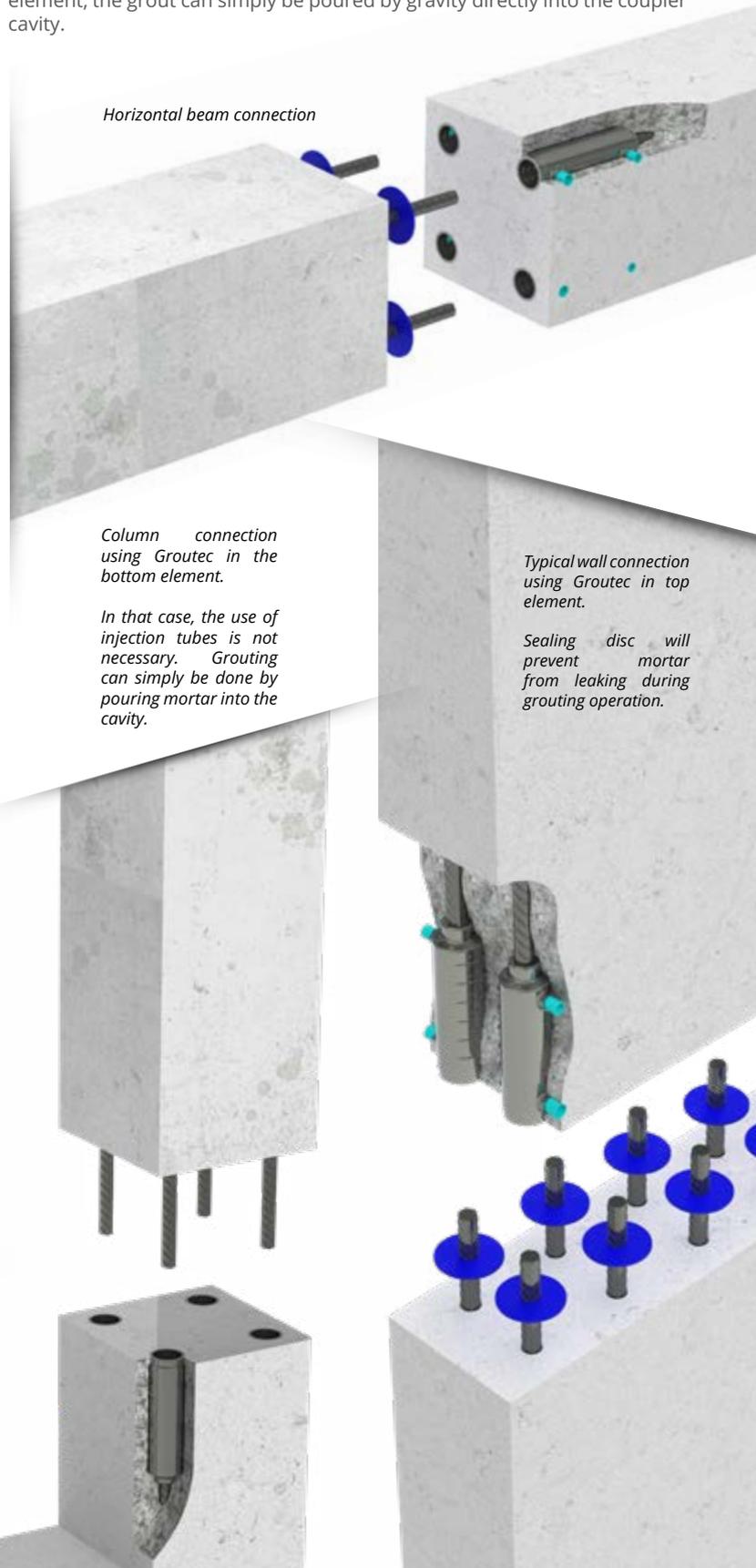
Groutec S
» Slim outside diameter «

Applications

Groutec is designed to connect the precast elements wall or column either horizontally and vertically.

In horizontal applications, and in vertical applications with the Groutec coupler installed in the top element, the connection is achieved by injecting the grout through the inlet pipe.

In vertical applications with the Groutec coupler installed in the bottom element, the grout can simply be poured by gravity directly into the coupler cavity.



Horizontal beam connection

Column connection using Groutec in the bottom element.

In that case, the use of injection tubes is not necessary. Grouting can simply be done by pouring mortar into the cavity.

Typical wall connection using Groutec in top element.

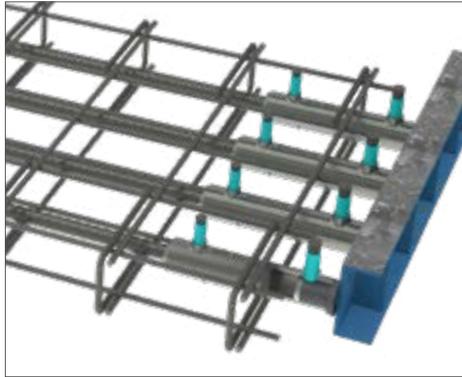
Sealing disc will prevent mortar from leaking during grouting operation.

Installation sequence

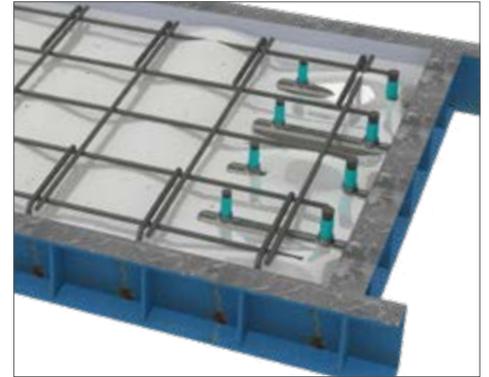
- 1** Preposition Groutec onto the formwork using a positioner. Screw in the threaded rebar.



- 2** Install reinforcement.



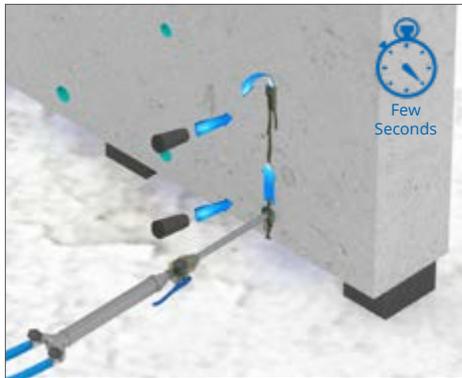
- 3** Proceed with casting. Once ready, open the formwork. Remove plugs and positioners.



- 4** Transport element to its final position over the dowel bars, straighten and brace.



- 5** Inject non-shrink grout. Seal the coupler with plugs when grout overflows.



- 6** Bracing can be removed after drying time



For more detailed installation instructions and design instructions, please check www.dextragroup.com.

Traceability

All Groutec couplers are marked with a code that includes the batch number, allowing Dextra to retrieve, among other data, the following information :

- the material certificate
- the QC inspection report
- the product test report
- the mould number



CAD & BIM



Groutec coupler design file are available at www.dextragroup.com for download in the following formats:

- AutoCAD palette tool
- Tekla attributes for "Rebar Anchor" tool
- Revit 2017 Product family



Dream Acres Bangalore, India



Forest City Johor, Malaysia



London Wall Place, United Kingdom



Commercial presence
in more than
55 countries



Dextra

**HEADQUARTERS
THAILAND**

Dextra Manufacturing Co., Ltd.
Tel: (66) 20 021 3800

CHINA

Dextra Building Products (Guangdong) Co., Ltd.
Tel: (86) 20 2261 9901

HONG KONG

Dextra Pacific Ltd.
Tel: (852) 2845 7766 / 2511 8236

EUROPE

Dextra Europe SARL.
Tel: (33) 1 45 53 70 82

MIDDLE EAST

Dextra Middle-East FZE
Tel: (971) 4886 5620

INDIA

Dextra India Pvt. Ltd.
Tel: (91) 22 2838 6294 / 22 2839 2694

NORTH AMERICA

Dextra America Inc.
Tel: (1) 805 915 4734 / 818 261 5166

LATIN AMERICA

Dextra Latam
Tel: (507) 6454 8100 / 831 1442

BRAZIL

Dextra do Brasil
Tel: (55) 11 5505 2475 / 11 5505 2477