

# GFRP CONNETTOR ELLEKON



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## 1. CODE REGISTRY

Code	Description	Measure (mm)	Weight (gr/m)	Pkg / Pallet
BFO04-301 *	GFRP Connettor Ellekon	100 x 100	75	100 pcs. / 20 pcs.
BFO04-302 *	GFRP Connettor Ellekon	100 x 200	75	100 pcs. / 20 pcs.
BFO04-303	GFRP Connettor Ellekon	100 x 300	75	100 pcs. / 20 pcs.
BFO04-304	GFRP Connettor Ellekon	100 x 400	75	100 pcs. / 20 pcs.
BFO04-305	GFRP Connettor Ellekon	100 x 500	75	100 pcs. / 20 pcs.
BFO04-306	GFRP Connettor Ellekon	100 x 600	75	100 pcs. / 20 pcs.
BFO04-307 *	GFRP Connettor Ellekon	100 x 700	75	100 pcs. / 20 pcs.
BFO04-308 *	GFRP Connettor Ellekon	100 x 800	75	100 pcs. / 20 pcs.
BFO04-309	GFRP Connettor Ellekon	100 x 900	75	100 pcs. / 20 pcs.
BFO04-310 *	GFRP Connettor Ellekon	100 x 1000	75	100 pcs. / 20 pcs.

**MATERIAL** Made of fiberglass impregnated with epoxy resin.

\* only upon request

BFO04-301/302/303/304/305/306/307/308/309/310		
Properties	UM	Value
Length (long side)	mm	100 - 1000
Length (short side)	mm	100
Nominal fiber area ( net fiber cross sections )	mm*mm	23.4
Equivalent cross section ( nominal cross section ) of connector	mm*mm	38
Equivalent diameter ( nominal diameter ) of the connector	mm*mm	7,6
Tensile strength (average over straight section)	KN	39
Tensile strength (characteristic) on straight section	KN	37
Tensile strength of composite (average)	Mpa	40
Tensile stress of composite (characteristic)	Mpa	38
Elastic modulus of the composite	Gpa	45
Average elongation at break of bar	%	3,3
Weight	g/m	75

# GFRP CONNETTOR ELLEKON

## 2. USE

In the rehabilitation and consolidation of damaged load-bearing masonry and for structural rehabilitation work. It is designed and manufactured for the connection and anchorage to masonry of RG NET BA preformed structural plasters and reinforcing meshes in the context of earthquake-resistant structural rehabilitation and reinforcement of buildings using composite materials. It is a preformed rigid alkali-resistant fiberglass anchoring device composed of improved-adherence L-bars of different lengths impregnated with epoxy-type thermosetting resin capable of making a connection system between reinforcing mesh, plaster and masonry substrate. Such a device is referred to as a rigid bar connector.

## 3. TECHNICAL SPECIFICATION

Item	Description	Unit	Price
<b>Dak.D.BFO04.30x</b>	Supply and installation of special improved adhesion rigid L-shaped preformed connectors made of alkali-resistant GFRP composite material Ellekon type for connection and anchorage of preformed GFRP meshes for reinforcement of masonry, stone, brick, mixed, tuff, concrete vaults consisting of glass fibers and thermosetting resin of epoxy type having the following technical characteristics: resistant section 78,5 mm <sup>2</sup> , tensile elastic modulus 50 GPa, tensile strength 45 kN, elongation at break 1.5%. The connectors will have variable dimensions according to design provisions of 100 x 200 mm, 100 x 300 mm, 100 x 400 mm, 100 x 500 mm and will be Ellekon type. The connectors should be arranged in a quincunx pattern, in a number of 4-6 per m <sup>2</sup> and in any case according to design provisions, after drilling 14-16 mm diameter holes in the structure to be reinforced. In the case of through holes, a 24-26 mm diameter hole is required to allow overlapping of the bars by at least 10 cm. The connectors will be grouted with epoxy resin in cartridges. Supply and installation per installed connector	pc.	-
<b>Dak.D.BFO04.301</b>	Dimensions 100 x 100.....	pc.	-
<b>Dak.D.BFO04.302</b>	Dimensions 100 x 200.....	pc.	-
<b>Dak.D.BFO04.303</b>	Dimensions 100 x 300.....	pc.	-
<b>Dak.D.BFO04.304</b>	Dimensions 100 x 400.....	pc.	-
<b>Dak.D.BFO04.305</b>	Dimensions 100 x 500.....	pc.	-
<b>Dak.D.BFO04.306</b>	Dimensions 100 x 600.....	pc.	-
<b>Dak.D.BFO04.307</b>	Dimensions 100 x 700.....	pc.	-
<b>Dak.D.BFO04.308</b>	Dimensions 100 x 800.....	pc.	-
<b>Dak.D.BFO04.309</b>	Dimensions 100 x 900.....	pc.	-
<b>Dak.D.BFO04.310</b>	Dimensions 100 x 1000.....	pc.	-