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Efficient and economic

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TECHNICAL APPROVAL UKAS PRODUCT

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CONCRETE REINFORCEMENT SPLICING and ANCHORING SYSTEMS

OU D'AN

SITIFS DE RABOUTAGE CRAGE D'ARMATURES







The Firsty[®] range of couplers provides an economical complementary solution to the Hérisson[®] range

Manufactured in large quantities, the Firsty[®] coupler, with its simple shape, offers a high-performance and affordable constructive system.

A rebar splice more resistant than the bar itself

When tensile tested, the failure always occurs in the rebar itself.

A rebar coupler fully compliant with the standards and recommendations

Rebar threading

Threading is performed after having increased the diameter of the rebar's edge by upsetting.

Threading by **rolling** maintains the steel fibres, which ensure the mechanical splice has excellent resistance. Rebar resistance and ductility are therefore not affected by the threading operation.



- specific patented machine
 strict inspections
- strict inspections
- specialised workshops



Quality assurance

A fabrication process under continuous monitoring compounded by simple and reliable assembly procedures ensure the high quality and safety of our rebar couplers, from fabrication to installation. **Our Quality System is ISO 9001-certified.**







Certifications

ISO 9001 certification of Armaturis Quality System



Products technical approvals



Evaluation and in-process testing

- In relation with our **technical approvals**, Firsty[®] splices are independantly tested every 6 months.
- Above mentioned tests are complemented by our own **continuous monitoring of products** ones.
- And we also collaborate with independant laboratories in order to test our processes **beyond normative** requirements.





The range

FTC-F/4-5 23/11/2016

Firsty®



Firsty[®] coupler specifications

	Ø12	Ø14	Ø16	Ø20	Ø25	Ø32	Ø40
B=coupler length (mm)	36.00	36.00	44.50	52.85	65.65	77.50	96.50
D=overall diameter (mm	19.50	22.50	26.50	32.50	40.50	50.50	60.50
Ref.	CFI12	CFI14	CFI16	CFI20	CFI25	CFI32	CFI40
Colour codes							



Firsty[®] coupler





Standard assembly

The 2nd phase rebar can be screwed in









The range

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A

Firsty[®] and long locknuts



Firsty® coupler and long locknuts specifications

	Ø12	Ø14	Ø16	Ø20	Ø25	Ø32	Ø40
A=locknut width (mm)	10.00	10.00	11.50	14.00	17.50	21.00	26.50
B=coupler length (mm)	36.00	36.00	44.50	52.85	65.65	77.50	96.50
C=total length (mm)	56.00	56.00	67.50	80.85	100.65	119.50	149.50
D=overall diameter (mm)	19.50	22.50	26.50	32.50	40.50	50.50	60.50
Locknut ref.	FRL12	FRL14	FRL16	FRL20	FRL25	FRL32	FRL40
Coupler ref.	CFI12	CFI14	CFI16	CFI20	CFI25	CFI32	CFI40
Colour codes							

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Description of the Firsty® transitional splices

Thanks to the upsetting performed before threading, the Firsty® system allows to easily splice 2 rebars of different diameters. This is simply achieved by using the coupler (and locknuts if Positional splicing) the diameter of the small bar to be spliced.

larger bar diameter (mm)	coupleur ref.	locknuts (if Positional splicing)	smaller bar diameter (mm)
Ø40	CFI32	FRL32	Ø32
Ø32	CFI25	FRL25	Ø25
Ø25	CFI20	FRL20	Ø20
Ø20	CFI16	FRL16	Ø16





Position assembly

The 2nd phase rebar cannot be screwed in





Position assembly cont.



The 2nd phase rebar cannot be screwed in

Inspection

X The specific inspection tool must not enter between the coupler and locknut No. 2.

The specific inspection tool makes so easy to check the splice assembly and therefore its safety.

Possible orientation of bent bar



X For dia. 25 and above: $L \ge 0.80$ m.

At this stage of assembly the Firsty® rebar coupler guarantees the safety of the splice.









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