

2.0 - "M" SERIES ACTIVE ANCHORAGES



19M15 anchorage

The "M" system is designed to comply with the guidelines **ETAG 013** and it is awarded with the European Technical Approval **ETA-09-0012** and the marking **CE 0969-CPD-001/09-PT**.

The anchorage is made of: an anchor plate, wedges, connection and anchor casting.

Simulations made with finite element codes and laboratory tests allowed to design a compact anchorage to comply with the guidelines **ETAG 013**.



The "M" series active anchorage is made of the following parts: casting, anchor plate, wedges and connection in H.D.P.E. to connect the casting to the metallic or polyethylene sheath. Castings have a turned plane for the plate, holes for connection to cap and formwork and a threaded grouting hole. Castings are in spheroidal cast iron EN-GJS 500-7 EN-JS-1050, which offers a high resistance to stress. Being weldable, it guarantees the maximum safety during installation.

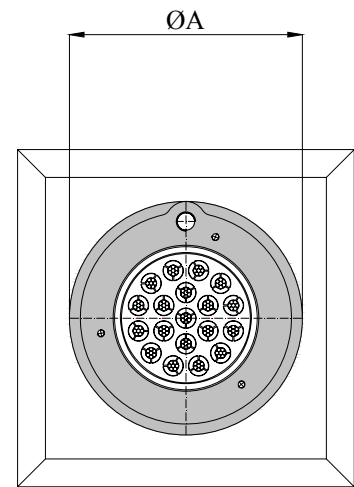
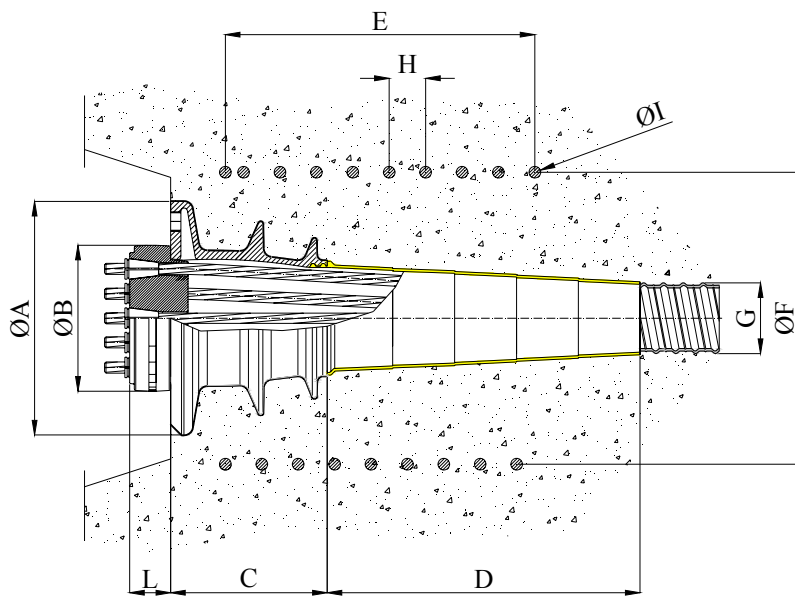
Strands are blocked on a distribution plate with truncated cone holes in steel C40-45 UNI EN 10083/1 and by means of wedges in steel 16NiCr4Pb UNI EN 10277-4.

The anchorage and the sheaths are connected by means of a truncated cone connection that guarantees a correct deviation of strands, minimizing the values of losses. The connection is made of H.D.P.E. and suitable for the connection to several-diameter sheaths.

All castings have threaded holes on the plane to allow an easy fixing to the formwork by means of bolts.

All castings have a gas threaded hole for grouting to allow the connection to the several solutions available for grouting. Castings may be supplied with an epoxy coating protection on request.

45 MPa concrete class



Type	Ultimate load			A	B	C	D	E	F	G	H	I	L
	T15 259 per cable (KN)	T15S 279 per cable (KN)	T15C 307 per cable (KN)										
4M15	1036	1116	1228	160	105	103	300	180	170	45/50	45	12	45
7M15	1813	1953	2149	200	125	133	340	250	220	62/67	45	12	45
9M15	2331	2511	2763	235	146	163	380	250	250	72/77	45	14	45
12M15	3108	3348	3684	265	160	180	385	300	300	80/85	50	16	45
15M15	3885	4185	4605	290	176	197	405	350	355	85/90	50	16	45
19M15	4921	5301	5833	320	200	215	430	425	400	95/100	50	16	56
22M15	5698	6138	6754	355	230	260	430	425	420	100/105	50	18	61
27M15	6993	7533	8289	380	250	277	470	400	460	110/115	50	18	70

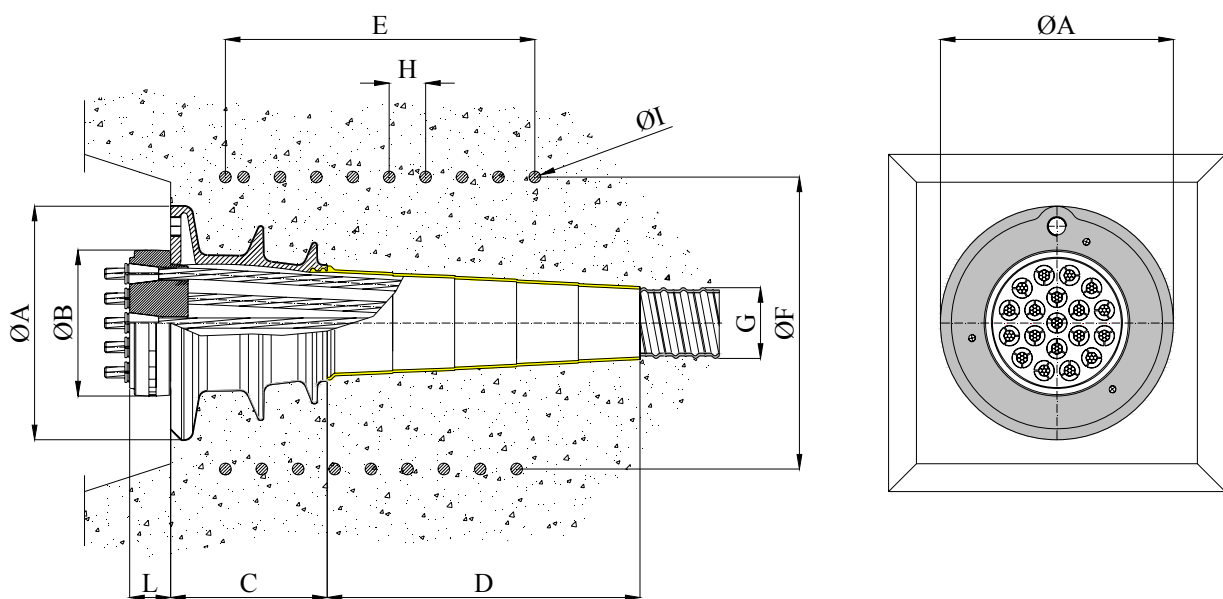
Our company reserves the right to change our products and specifications without any previous notice.

(Measures in mm.)

35 MPa concrete class



12M15 and 19M15 anchorages



Type	Ultimate load			A	B	C	D	E	F	G	H	I	L
	T15	T15S	T15C										
	259	279	307										
	<i>per cable</i>	<i>per cable</i>	<i>per cable</i>										
	(KN)	(KN)	(KN)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)	(mm.)
4M15	1036	1116	1228	160	105	103	300	205	180	45/50	45	12	45
7M15	1813	1953	2149	200	125	133	340	270	240	62/67	45	12	45
9M15	2331	2511	2763	235	146	163	380	270	300	72/77	45	14	45
12M15	3108	3348	3684	265	160	180	385	350	350	80/85	50	16	45
15M15	3885	4185	4605	290	176	197	405	450	410	85/90	50	16	45
19M15	4921	5301	5833	320	200	215	430	450	440	95/100	50	16	56
22M15	5698	6138	6754	355	230	260	430	425	480	100/105	50	18	61
27M15	6993	7533	8289	380	250	277	470	480	530	110/115	50	18	70

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(Measures in mm.)