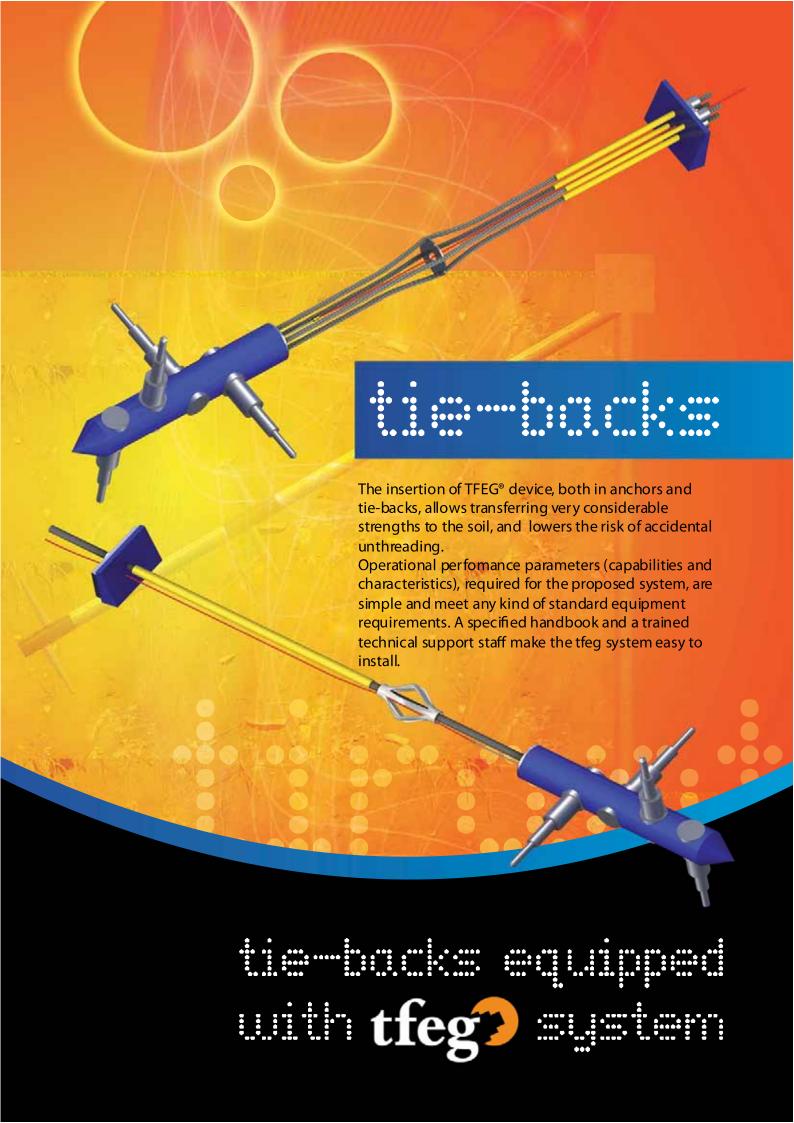
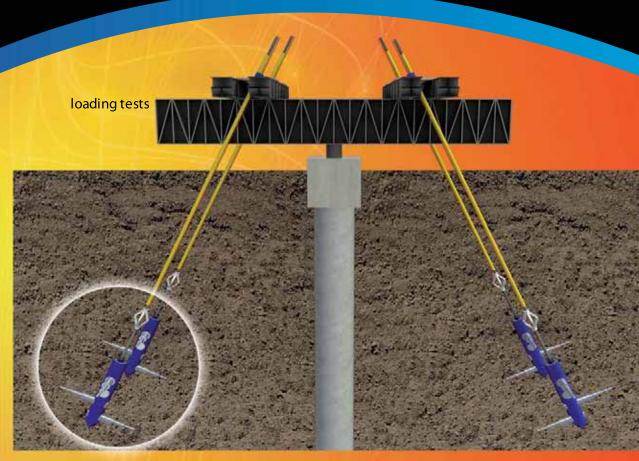


submerged anchors



tfeg

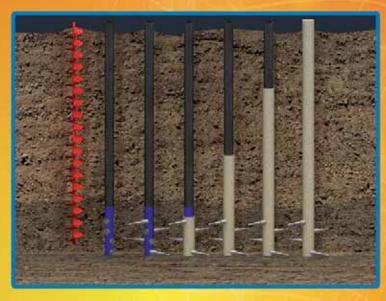


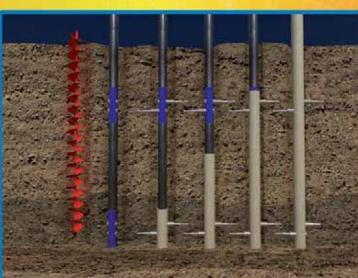
Using the TFEG® system, it is possible to perform loading test growing down the execution time and saving costs. It's possible to perform tests also on large diameter piles reaching loads up to 7000 kN.



The use of the TFEG® system allows to save execution time: it's possible to reduce tie–backs length (bounded length is reduced to 3-5 m).

It is possible to avoid the use of injection valves.





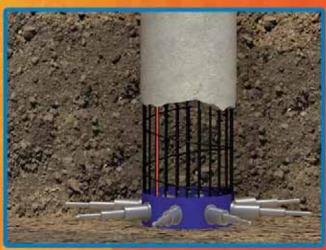
The TFEG® system inserted in threaded steel sockets, can be placed both along the shaft (shaft TFEG®) and at the base of a pile (base TFEG®). The TFEG® system is strong enough to allows a very efficient load transfer to stiffer layers supporting cyclic and dynamic condition (horizontal and vertical load). The steel sockets insertion avoids the execution of the pressured injection bulbs. The TFEG® device can be employed in every kind of soil

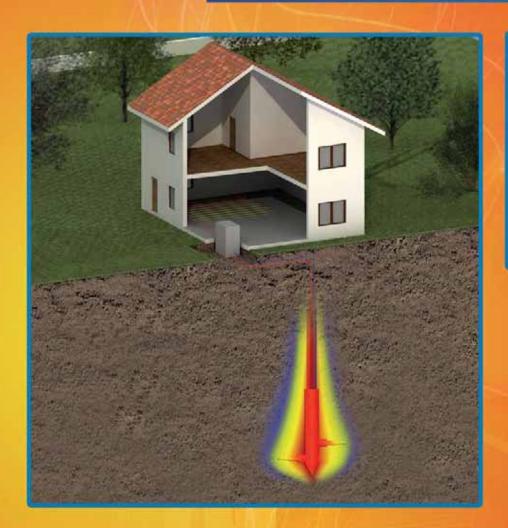
equal to 400 bar).

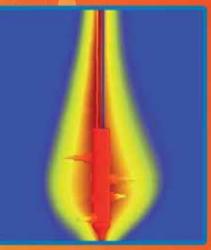
(reachable pressure of elongation pipe



The TFEG® system can be placed along the pile shaft, both in large and medium diameter pile. The flexibility of the TFEG® system allows its application to every kind of deep foundations, both to drilled piles, to the ones with partial soil removal (CFA Piles) and to the ones statically (Silent Piles) or dynamically (Driven Piles) fixed. The steel sockets, placed in Ø 800 mm pile diameter, reach a maximum elongation up to 2500 mm.



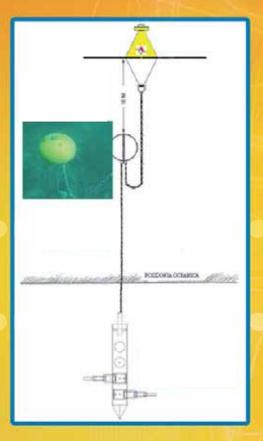




infrared image

In the Geothermic field, the use of the TFEG® system allows to increase the heat transferring surface between the interface soil/device.

The aluminium sockets increase the heat transfer comparing to the traditional systems. Moreover the TFEG® device involves in the heat transferring a volume of soil much more large than the traditional systems growing up both the geothermic performance (up to 300%) and the efficiency/functionality.



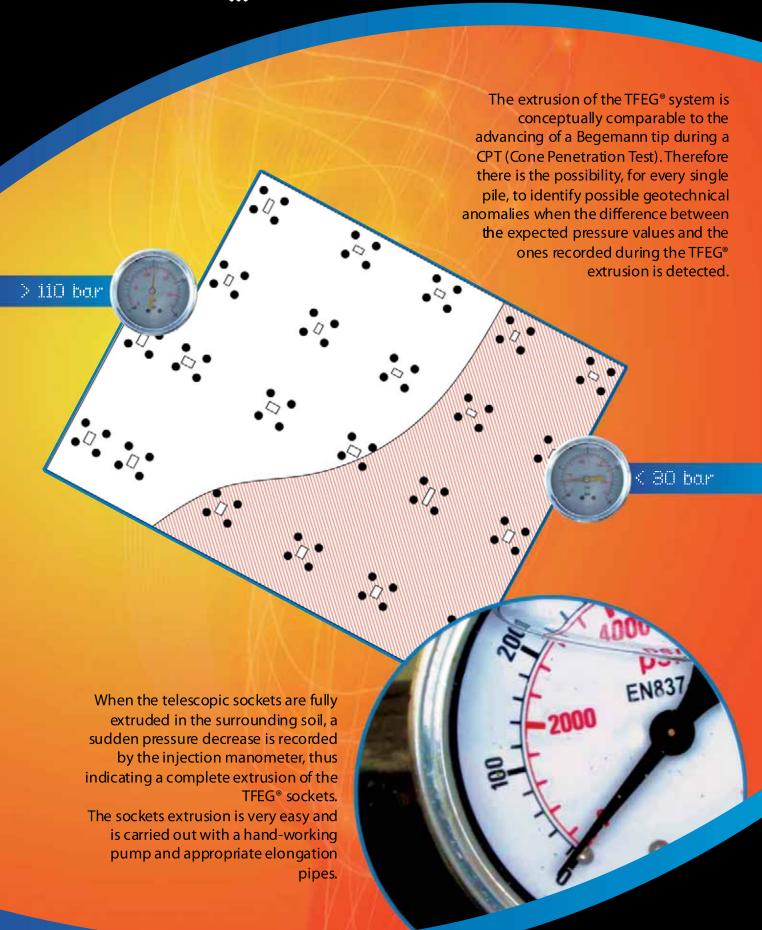
In order to overcome the problems related to the off-shore construction foundations (large diameter piles, large length anchors), the TFEG® system provides a powerful solution; it allows to reduce the drilling diameters, to use smaller equipment and to decrease the anchors length. Moreover the TFEG system can replace the dead-man anchors leaving unchanged the insitu seabed.





tfeg = =

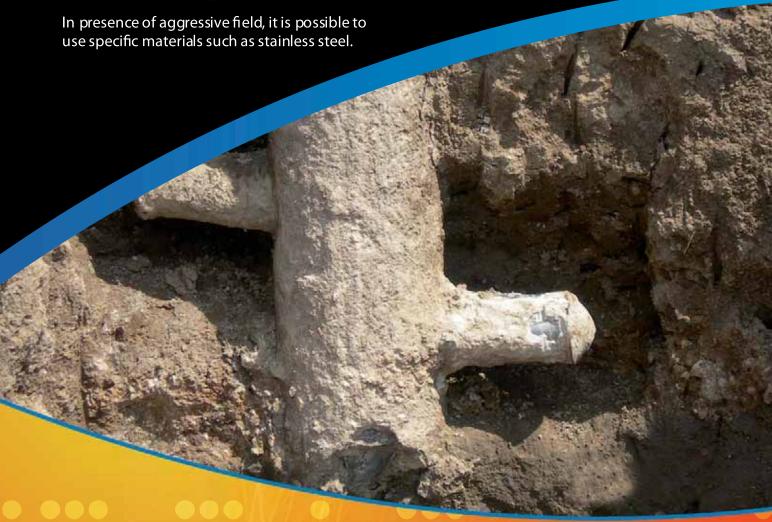




The Corrosion is limited by:

- the concrete film covering the TFEG system;Zincification of steel parts;Covering the steel sockets by polymers (teflon, extalon, etc);







STANDARD SPECIFICATIONS				
MICROPILES	Ø drilling hole	components	Ø Tube framework	sockets
McrTFEG 140-2-88,9-2/4	140 mm	2	88,9 mm	2/4
McrTFEG 160-2-139,7-2/4	160 mm	2	139,7 mm	2/4
McrTFEG 160-3-139,7-2/4	160 mm	3	139,7 mm	2/4
McrTFEG 200-3-168,0-2/4	200 mm	3	168,0 mm	2/4
McrTFEG 240-3-220,0-2/4	240 mm	3	220,0 mm	2/4
PILES	Ø drilling hole	components	Ø cage framework	sockets
PLTFEG 400-3-370,3-4	400 mm	3	370,3 mm	4
PLTFEG 600-2-570,3-4	600 mm	2	570,3 mm	4
PLTFEG 600-3-570,3-6	600 mm	3	570,3 mm	6
PLTFEG 800-2-770,0-6	800 mm	2	770,0 mm	6
PLTFEG 800-2-770,0-8	800 mm	2	770,0 mm	8
PLTFEG 1000-2-970,3-6	1000 mm	2	970,3 mm	6
PLTFEG 1000-2-970,3-8	1000 mm	2	970,3 mm	8
PLTFEG 1200-2-1170,0-6	1200 mm	2	1170,0 mm	6
PLTFEG 1200-2-1170,0-8	1200 mm	2	1170,0 mm	8
PLTFEG 1500-2-1470,0-6	1500 mm	2	1470,0 mm	6
PLTFEG 1500-2-1470,0-8	1500 mm	2	1470,0 mm	8
TIE-BACKS	Ø drilling hole	components	Ø sockets	sockets
TirTFEG 120-2-88,9-2/4	120 mm	2	88,9 mm	2/4
TirTFEG 150-2-88,9-2/4	150 mm	2	88,9 mm	2/4
TirTFEG 150-3-88,9-2/4	150 mm	3	88,9 mm	2/4
TirTFEG 160-2-139,7-2/4	160 mm	2	139,7 mm	2/4
TirTFEG 160-3-139,7-2/4	160 mm	3	139,7 mm	2/4



University of Naples - Federico II
Department of Earth Science
Department of Engineering

University of Rome - La Sapienza Department of Engineering

University of Cassino
Department of Engineering I

University of Rome - Roma 3 Department of Engineering

University of the Sannio Department of Earth Science

Ingegneria Ferroviaria Magazine Tie-backs equipped with TFEG system

S. Giovanni a Teduccio - Napoli

Underground car park - Salerno

New Palasport - Salerno

New Meeting Centre - Fuksass' Cloud

Chattanooga – Tennessee - USA

Lagonegro - Potenza

S. Giuliano di Puglia - Campobasso

Mercatello - Salerno

Teano - Caserta

Science Bridge-Rome



in progress

Enlargement of thermoelectric power station - Abrantes - Portugal Landslide stabilization - Via Giulia - Caserta
Stabilization of the Vaieto Monticello Stream - Lagonegro - Potenza Municipal underground car park - Caiazzo - Caserta
Deep piles of Alvignano - Piedimonte M. Viaduct - Caserta
School Enlargement - Via Argine - Napoli
Building up of the New Palasport - Salerno
Industrial Enlargement Prysmian Cables Spa - Arco Felice
New Meting Centre - Roma - la Nuvola di Fuksass
Building up of underground car park - Mercatello - Salerno
Highway Tunnel in San Giuliano di Puglia - Campobasso
New Department of Medicine Federico II - Naples Scampia
Underground car park Via Pio VI - Rome
Municipal underground car park - Chieti
Underground car park - Salemo

meetings

Teano (CE) 2005 "I° giornata di studio sul sistema TFEG®"

Bonefro (AV) 2006 "Nuove Fondazioni - evoluzione e stato dell'arte"

Bari Fiera del Levante 2006 "Fondazioni Profonde: evoluzione e innovazione"

Roma - Assirco - "Consolidamento di strutture con il sistema TFEG®"

Piacenza - Geofluid 2006 "Fondazioni Speciali: Stato dell'arte Evoluzione e Ricerca"

XXIII Convegno Nazionale di Geotecnica di Padova - Abano Terme (16-18 maggio 2007)

Barcellona Costrumat 2007 "Fondazioni Profonde Attrezzate con TFEG®"

Ordine degli Ingegneri provincia di Campobasso

Ordine degli Ingegneri provincia di Latina

Ordine dei Geologi regione Campania Silent Pile - 2008

Ordine dei Geologi regione Calabria Opere di rinforzo strutturale - 2008

Bari Fiera del Levante "Elementi Tesi" - 2008

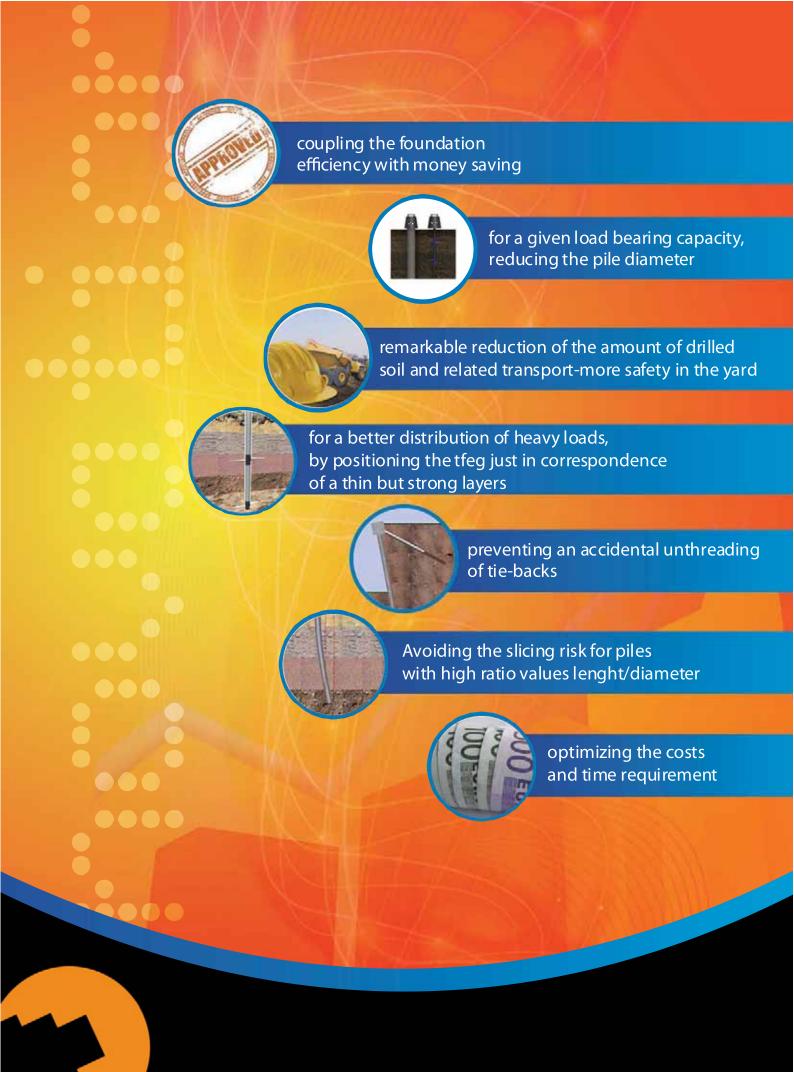
Piacenza Geofluid 2008 "Fondazioni speciali tra innovazione e ricerca

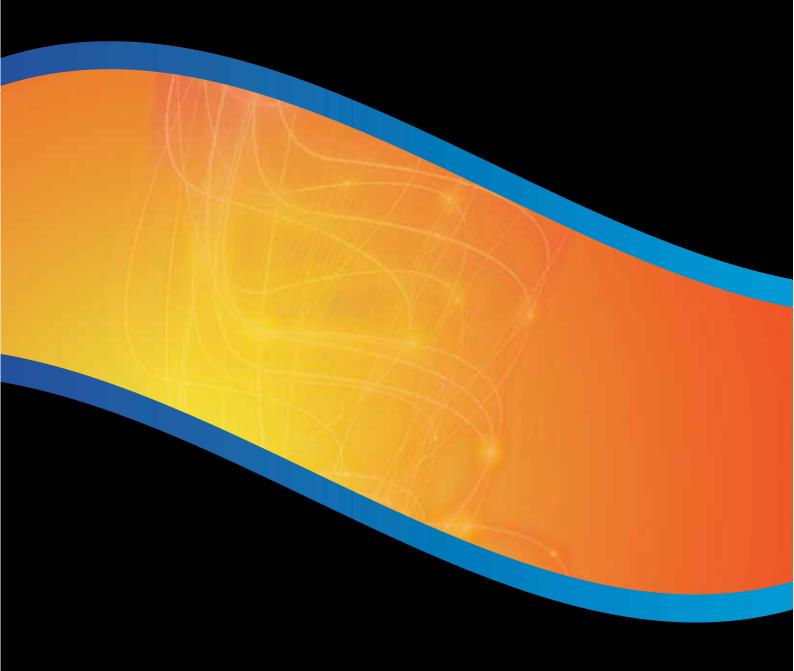
Keller - Innsbruck - Austria: Incontro sul TFEG® - 2009

Orlando Florida USA - ADSC - International Fuondation Congress - 2009

Atlanta - Georgia USA - ADSC - "Drilling and Soil Nails" - 2009 Geotech Roma - "Nuovi scenari per le Fondazioni Profonde" - 2009

Londra - Ecobuild "The System Tfeg"







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