

# THE NEW FONSIDER TECHNOLOGY FOR STEEL FOUNDATIONS



#### Speed of execution

Time reduced by 70% since there is no need to wait for the concrete to be poured and mature.



#### **Cost savings**

Less material is involved and thanks to the speed, we have cost savings in the order of 30-40%.



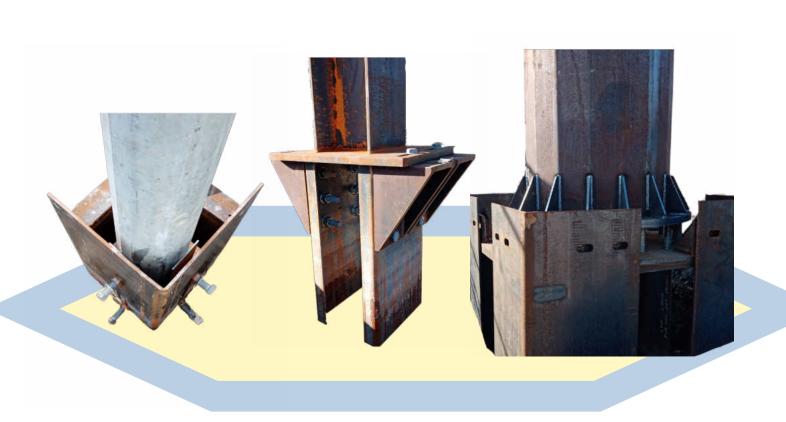
#### Lower CO2 emissions

Environment friendly, F 40% reduction of CO2 emissions better ESG index for users (Environment, Social, Governance).



#### No water needed

Fonsider foundations don't require any water:
the installation is completely dry.



### **LOWER CO2 EMISSIONS**

Lower CO2 emissions than traditional concrete foundations, both during production and construction, improving the ESG (Environment, Social, Governance) index.

The comparison between the concrete foundation and the Fonsider foundation showed a significant reduction in CO2 emissions as can be seen in the table on the right (produced by one of our customers in the TLC sector).

Being made of steel only, Fonsider foundations are also 100% recyclable: not only can they be easily removed but they can also be completely reused or recycled. Conventional concrete foundations, on the other hand, require demolition to remove and cannot be reused.

#### CO2 EMISSIONS OF CONCRETE FOUNDATIONS

Attività	unità	(kg CO <sub>2</sub> n*)	
Pullzia area	2h	0,47	
Trasporto in sito scavatore	50 km	314	
Scavo	6 h	352,04	
Casseratura plinto/platea	50 mq	9,63	
Trasporti casseri A/R	50 km	119,35	
Armatura plinto/platea	1600 kg	9,63	
Trasporti armatura	50 km	119,35	
Produzione CL5 C25/30	62,5 mc	13.437,5	
Trasporto CL5	20 km	44,88	
Trasporto terra in discarica	160 km	364,8	
Finiture		9,63	
Trasporti personale	10 km/g per 5 gg	9,65	
Montaggio palo	100 km	317	
Trasporti personale	60 km/g per 5 gg	57.9	

#### CO2 EMISSIONS OF FONSIDER



#### CIRCULAR ECONOMY



### **ATTACHMENTS**

### **GENERAL DESCRIPTION:**

1. For a **general description of Fonsider technology**, see Fonsider general booklet



### **SPECIFIC APPLICATIONS:**

2. Foundations for **telecommunications monopoles**, see TLC presentation



- 3. Foundations for **noise barriers**, see noise barriers presentation
- 4. Foundations for **lighting poles**, see Slim booklet
- 5. Foundations for **lattice towers for overhead powerlines, TLC and television**, see lattice towers energy, telecommunications and television presentation



- 6. Foundations for **light towers**, see light towers presentation
- 7. Foundations for **utility poles**, see utility poles presentation
- 8. Foundations for **catenary poles**, see catenary poles presentation
- 9. Foundations for **prefabricated fences**, see Faster booklet
- 10. Foundations for **above ground pipeline**, see pipeline presentation









### **SMART SYSTEM FOUNDATION F2C**

### **APPLICATIONS:**

- Foundations for noise barriers of any type
- · Foundations for steel structures in general
- Foundations for rockfall protection barriers
- Steel building foundations
- · Foundations for electric traction poles for railways and trams
- Foundations for wooden houses and structures in general
- Foundations for above ground oil pipelines
- Foundations for fences and partitions
- Foundations for temporary structures (in case of disasters)













### **COSTS AND TIME OF EXECUTION F2C**

### COMPARISON WITH CONCRETE SOLUTION

Example of a noise barrier foundation h = 4 m and L = 100 ml:



Material transport



Installation



End of foundations work

- 80%

fonsider times

traditional solution times

Excavation for plinth housing



Transport of excavated material



Iron working/reinforcement for castings



Concrete casting



Concrete curing time waiting



End of foundations work



START TIME 8:00 a.m.









END TIME 8:30 a.m.



Fonsider technology replaces traditional concrete foundations



Supply and vibrodriving of 20 sheets of 520 kg for a total of about 10,000 kg

Supply and installation of 20 joints of 150 kg for a total of about 3000 kg

- 50%

fonsider

costs

traditional solutions cost

Excavation 3.5 x 1.2 x 100 = 420 mc

Supply and lean laying  $2,35 \times 0,1 \times 100 = 23,5 \text{ mc}$ 

Supply and laying of formworks to contain the jet of the inverted beam

 $2 \times 0.5 \times 100 + 2 \times 1.65 \times 100 = 430 \text{ sqm}$ 

Supply and installation of reinforcement iron approx. 14,600 kg

Concrete delivery and casting 190 mc

### **SMART SYSTEM FOUNDATION F4L**

### **APPLICATIONS:**

- Foundations for light towers
- Foundations for telecommunications towers
- Foundations for mini wind turbines
- Foundations for generic base flanged poles
- · Foundations for steel structures in general









### COSTS AND TIME OF EXECUTION F4L

### COMPARISON WITH CONCRETE SOLUTION

Example of a telecommunication tower foundation h = 30 m



Material transport



Installation



**End of foundations work** 

- 80%

fonsider times

traditional solution times

Excavation for plinth housing



Transport of excavated material



Iron working/reinforcement for castings



Concrete casting

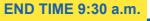


Concrete curing time waiting



**End of foundations work** 















 Fonsider technology replaces traditional concrete foundations



Supply and vibrodriving of sheets for a total of about 2600 kg

Supply and installation of joint for about 590 kg

fonsider costs

ution

Excavation of about 36 mc

Casting of a layer of lean for about 1.6 cubic meters

Supply and installation of plinth reinforcement iron for a total of about 2000 kg

Realization of formworks to contain the plinth jet for a total of 20 square meters

Supply installation of 16 anchor bolts + counter plate

Supply and casting of about 21 mc of concrete

Backfill for about 15 mc

### **SMART SYSTEM FOUNDATION FL**

### **APPLICATIONS:**

- Foundations for lighting poles
- Foundations for utility poles
- Foundations for traffic light poles
- Foundations for canopy poles
- Foundations for road signs poles
- Foundations for video surveillance poles
- Foundations for generic not flanged poles











### **COSTS AND TIME OF EXECUTION FL**

### COMPARISON WITH CONCRETE SOLUTION

Example of lighting pole foundation



Material transport





**End of foundations work** 

- 80%

fonsider times

traditional solution times

Excavation for plinth housing



Transport of excavated material



Iron working/reinforcement for castings



Concrete casting



Concrete curing time waiting



**End of foundations work** 



#### START TIME 8:00 a.m.









END TIME 8:30 a.m.



Fonsider technology replaces traditional concrete foundations



Mini Excavation 40 x 40 x 80 cm

Vibrodriving of 76 kg metal sheet including joint

Pole and cockpit installation

- 50%

fonsider costs

traditional solution

Excavation 150 x 100 x 120 cm

Supply and laying of gravel/sand layer 150 x 100 x 10 cm

Supply and installation of the 120 x 80 x 90 cm plinth

Pole laying

Sand casting for pole grouting

Cockpit installation and masonry of the manhole

Backfill

### ADVANTAGES F2C, F4L, FL

- Exceptional speed of execution with more than 20 foundations per day
- Cost savings of more than 40% compared to concrete solutions
- Less floor space than concrete solutions
- Absence of excavations
- Absence of concrete castings: the waiting times for concrete curing are avoided
- Possibility of removal leaving the ground unaltered
- Possibility of reuse, it can be removed with a vibrodriver without any damage
- Possibility of use for temporary structures (in case of disasters or events-shows)
- Antiseismic
- Ecological, all components are made of steel so 100% recyclable
- Possibility of installation in all weather conditions and ground conditions
- Dry installation, no landfill material, no soil changes
- Ideal for sloping terrain with guarantees of stability for the depth of penetration

### Vibrodriven with a duration of less than 5'

• The vibrodriver is mounted on a 250-300 q excavator

TECHNICAL DATA F2C, F4L, FL

- Safety against excavator's pressure losses is guaranteed by a chain
- Total dispersion of ground vibrations already at 20-30 m
- The vibrodriver is mounted on a 250-300 q excavator
- The "open" section of the sheet metal allows it to be driven into any terrain
- · Calculations and verifications according to uni en, uni cnr, dm standards
- Possibility of driving adjacent to buildings with variable vibration machines and/or with trench
- The vibration of the sheet metal momentarily breaks up the ground facilitating the insertion after which, when the vibration is finished, the ground recompacts, cancelling any possibility of movement of the sheet metal fixed (similarly for the extraction).



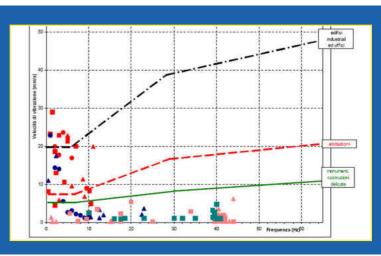








Required design working life	5 years	25 years	50 years	75 years	100 years
Undisturbed natural soils (sand, silt, clay, schist,)	0,00	0,30	0,60	0,90	1,20
Polluted natural soils and industrial sites	0,15	0,75	1,50	2,25	3,00
Aggressive natural soils (swamp, marsh, peat,)	0,20	1,00	1,75	2,50	3,25
Non-compacted and non-aggressive fills (clay, schist, sand, silt,)	0,18	0,70	1,20	1,70	2,20
Non-compacted and aggressive fills (ashes, slag,)	0,50	2,00	3,25	4,50	5,75



- Design standardization according to stress and ground parameters
- Reduction of costs and design time thanks to design standardization
- · Production standardization with the possibility of products in stock
- Reduction of costs and times thanks to production standardization
- · Ease of construction thanks to the single work step with a single operator
- Ecologically integrated design optimization of the lca index (eco-balance of the work) because either removal and reuse or total removal and recycling of all components that are made of steel

- For the guarantees of durability, the thickness of the sheets is dimensioned according to the ec 3-5 standard (en1993-5) for untreated steel structures driven into the ground.
- Even though the underground is oxygen-free, even in the presence of a water table, a galvanising treatment is foreseen as an additional element to guarantee durability, in addition to the application of the above standard.
- The vibrations induced in the ground are of an intensity comparable to that generated by the passage of a truck, as shown in the attached table.

### **FONSIDER SERVICES**

### **TECHNOLOGY TRANSFER:**

- 1. Thanks to its patented technology, Fonsider gives the customer the opportunity to have an exclusive product or limited to a few operators.
- 2. Fonsider enables the customer to use the fonsider technology independently for the application of his interest.
- Technical documentation of each technological application:
  - drawings
  - calculation reports
  - structural tests
- Illustrative documentation of photos and videos to illustrate the method of installation
- Training in Italy of technicians sent by the client for a period of 2 weeks
- Demonstrative installations, on request, in Italy
- Telephone and email support for questions and clarifications
- Annual technical update reports

### N° 3 POSSIBLE CONTRACT OPTIONS:

### **OPTION 1**

Royalty contract for each piece sold with minimum annual warranty for 20 years with a deposit to the signature.

### **OPTION 2**

Royalty contract for each piece sold with a minimum guaranteed advance lump sum.

### **OPTION 3**

royalties, only an

Contract without advance lump sum.



Università di Pisa Data analysis:

Laboratorio 4m - Bolzano-FLorence Misurations:

FEM modelling: UTP engineering - Pisa

Eng. Giampaolo Tizzoni Inventor:

> Fonsider was born from the experience of engineer Giampaolo Tizzoni. In 2012, Eng Tizzoni patented a solution of foundations in vibro-insertion steel, which could only be used for a particular type of noise barrier. The patent was then acquired by the main Italian motorway companies: Autostrade per l'Italia Spa, Gavio Group - Sias Spa (SALT, CISA, SATAP,

ATS, SITAF)

From 2012 to 2017 Eng Tizzoni perfected his knowledge in the field of foundations with vibro-driven plates, working in a company of the Gavio-Sias

group for the application of the patent in the motorway network.

In 2018 he patented a foundation solution in steel with controlled vibroinfission that allows its use for all types of steel structures, from which the company Fonsider was born, for the development and marketing of this technol-

In 2019 Fonsider performs all the tests and trials with the University of Pisa

and begins the commercialization of the technology.

In 2020 Fonsider begins the commercialization of the technology.







Prices starting from 30.000€ for one application and one area unit.

Full price list to be requested at: sales@fonsider.it

· List of area units still available to be requested at: technical@fonsider.it

Notarbartolo e Gervasi spa - Milano Patent consulting:

Licensing consulting: N&G Consulting - Milano - Avv. Foà

References: To date, various Italian companies use Fonsider technology.

To be requested at sales@fonsider.it



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# FOUNDATIONS FOR TELECOMMUNICATIONS



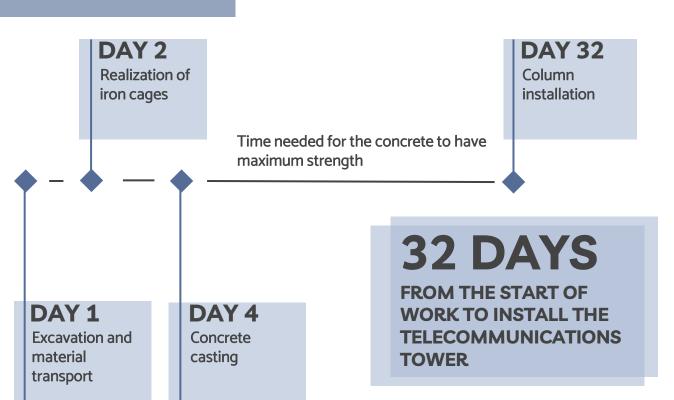
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# FOUNDATIONS UNTIL TODAY



## FOUNDATIONS UNTIL TODAY



O H



8:00 AM: START OF WORK

9:30 AM: TOWER INSTALLATION











DAY 1

Vibrodriving the foundation and column installation

1 DAY

TO BUILD THE FOUNDATION
AND INSTALL THE
TELECOMMUNICATIONS TOWER



# FONSIDER'S REVOLUTIONARY APPROACH, WHICH ALLOWS THE CONSTRUCTION TO BE COMPLETED WITHIN 24 HOURS, USES THE FOLLOWING ELEMENTS:

- Steel sheets foundations which are driven using our patented technique.
- The new Fonsider technology:
  - allows to vibrodrive the sheets with a controlled error of ± 7 cm at most
  - allows to correct said error with specific Fonsider joints.
  - allows the column to be simply bolted onto the cap of said foundation.
- The patents are granted internationally making Fonsider truly exclusive.





### **ADVANTAGES**



#### Speed of execution

Time reduced by 70% since there is no need to wait for the concrete to be poured and mature.



#### **Cost savings**

Less material is involved and thanks to the speed, we have cost savings in the order of 30-40%.



#### Lower CO2 emissions

Environment friendly, F 40% reduction of CO2 emissions better ESG index for users (Environment, Social, Governance).



#### No water needed

Fonsider foundations don't require any water:
the installation is completely dry.



## FONSIDER TECHNOLOGY FOR THE TELECOMMUNICATIONS FOUNDATIONS

FONSIDER'S VIBROBOX FOR INSTALLATION







STRUCTURAL TESTS HAVE BEEN CARRIED OUT WITH THE UNIVERSITY OF PISA



### PARTNERSHIP IN THE TELECOMMUNICATIONS INDUSTRY



Fonsider has already signed a partnership in Italy with FIMO. (https://www.fimoworld.com) in relation to the telecom tower sector.

FIMO is an Italian based company, with over 80 years of trading, that specialises in the design and production of equipment and related components for telecommunications and towers. In July 2020, FIMO was acquired by Italian private equity group, Wise Equity. With the support of its new owners, FIMO is aggressively looking to expand its product offering, to include the provision of technology/services for Mobile Tower foundations.







FIMO has undertaken its own analysis of Fonsider's technology with specific reference to the CO2 benefits. Its independent analysis shows the Fonsider solution has a carbon footprint of just 50% of a traditional concrete foundation. Please see separate summary deck for details of FIMO's analysis.

FONSIDER IS LOOKING FOR LEADING ORGANIZATIONS IN EVERY INDUSTRY TO PARTNER WITH.

### FONSIDER ABROAD

THE TELECOMMUNICATIONS INDUSTRY ONE OF THEM



OF WHICH A DEMO VIDEO IN THE FOLLOWING PAGE.

### **DEMO VIDEO**

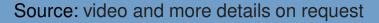
















01

**FOUNDATIONS UNTIL TODAY** 

02

THE FONSIDER REVOLUTION

03

FONSIDER TECHNOLOGY FOR NOISE BARRIERS FOUNDATIONS

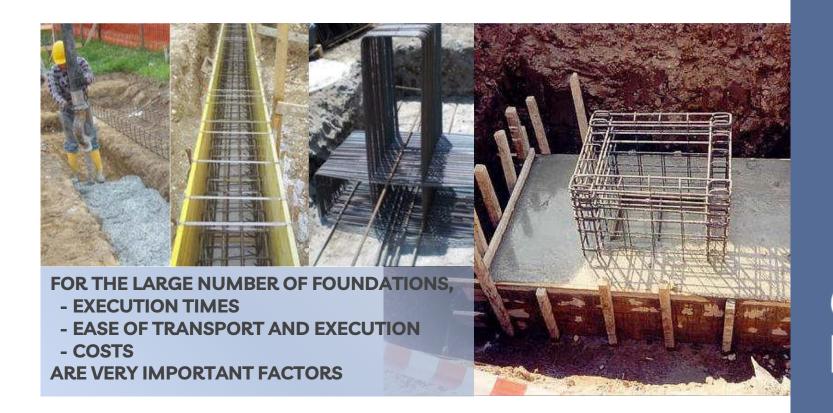
04

**FONSIDER ABROAD** 

05

**DEMO VIDEO** 

# FOUNDATIONS UNTIL TODAY



O H



8:00 AM: START OF WORK

9:00 AM: UPRIGHT INSTALLATION











**START** 

Vibrodriving the foundation and upright installation

**AFTER** 

1 HOUR

WE CAN ALREADY INSTALL THE NOISE BARRIER SECTION



# FONSIDER'S REVOLUTIONARY APPROACH, WHICH ALLOWS THE CONSTRUCTION TO BE COMPLETED WITHIN 1 HOUR, USES THE FOLLOWING ELEMENTS:

- Steel sheets foundations which are driven using our patented technique.
  - The new Fonsider technology:
    - allows to vibrodrive the sheets with a controlled error of ± 7 cm at most
    - allows to correct said error with specific Fonsider joints.
    - allows the upright to be simply bolted onto the cap of said foundation.
- The patents are granted internationally making Fonsider truly exclusive.





### **ADVANTAGES**



#### Speed of execution

Time reduced by 70% since there is no need to wait for the concrete to be poured and mature.



#### **Cost savings**

Less material is involved and thanks to the speed, we have cost savings in the order of 30-40%.



#### Lower CO2 emissions

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#### No water needed

Fonsider foundations don't require any water:
the installation is completely dry.





### NOISE BARRIERS: COMPARISON BETWEEN DIFFERENT FOUNDATION SOLUTIONS

Noise Barrier H = 4 m Various types of foundations

Aluminium panels elevation

Implementation cost comparisons

Continuous and simultaneous execution possible (foundation and elevation)

Execution time for 1,000 ml

Cost of the construction site on the highway

fonsider controlled vibro-driven steel foundation



-30/40% Yes

> 10 days 5,2 €/lm

beam on micropiles

concrete with kerb

and foundation

+40% No 40 days

40 €/lm

concrete with plinth on single pile



No

40 days

40€/lm



Reduction of CO2 emissions with improvement of the dealership's

Water consumption to build the

foundations

ESG index (see related slide)

### THE FONSIDER REVOLUTION

### NOISE BARRIERS: COMPARISON BETWEEN DIFFERENT FOUNDATION SOLUTIONS

fonsider controlled vibro-driven steel foundation

-40%

No water required

concrete with kerb and foundation beam on micropiles

No

A lot of water required because of concrete

concrete with plinth on single pile

No

A lot of water required because of concrete

### **FONSIDER TECHNOLOGY FOR** NOISE BARRIERS FOUNDATIONS







THE NOISE BARRIERS INDUSTRY

### FONSIDER ABROAD



### **DEMO VIDEO**











Source: video and more details on request



01

**FOUNDATIONS UNTIL TODAY** 

02

THE FONSIDER REVOLUTION

03

FONSIDER TECHNOLOGY FOR LATTICE TOWERS FOUNDATIONS

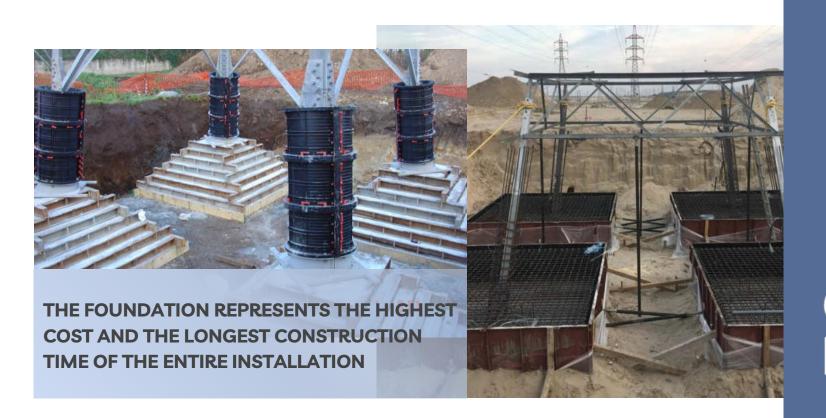
04

**FONSIDER ABROAD** 

05

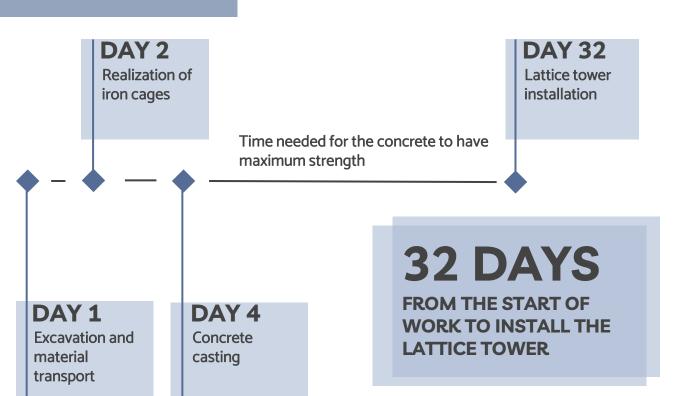
**DEMO VIDEO** 

# FOUNDATIONS UNTIL TODAY



O H

## FOUNDATIONS UNTIL TODAY



O H



8:00 AM: START OF WORK

9:30 AM: TOWER INSTALLATION











DAY 1

Vibrodriving the foundations and lattice tower installation

1 DAY

TO BUILD THE FOUNDATION AND INSTALL THE LATTICE TOWER



## FONSIDER'S REVOLUTIONARY APPROACH, WHICH ALLOWS THE CONSTRUCTION TO BE COMPLETED WITHIN 24 HOURS, USES THE FOLLOWING ELEMENTS:

- Steel sheets foundations which are driven using our patented technique.
- The new Fonsider technology:
  - allows to vibrodrive the sheets with a controlled error of ± 7 cm at most
  - allows to correct said error with specific Fonsider joints.
  - allows the feet to be simply bolted onto the cap of said foundation.
- The patents are granted internationally making Fonsider truly exclusive.





### **ADVANTAGES**



#### Speed of execution

Time reduced by 70% since there is no need to wait for the concrete to be poured and mature.



### **Cost savings**

Less material is involved and thanks to the speed, we have cost savings in the order of 30-40%.



#### Lower CO2 emissions

Environment friendly, F 40% reduction of CO2 emissions better ESG index for users (Environment, Social, Governance).



#### No water needed

Fonsider foundations don't require any water:
the installation is completely dry.



### **FONSIDER TECHNOLOGY FOR** LATTICE TOWERS FOUNDATIONS







THE ENERGY, TELECOMMUNICATIONS AND TELEVISION INDUSTRIES FOR EXAMPLE.



WE WOULD BE HAPPY TO PRESENT TO YOUR TECHNICAL COLLEAGUES THE ADVANTAGES OF USING THE NEW FONSIDER TECHNOLOGY,

OF WHICH A DEMO VIDEO IN THE FOLLOWING PAGE.

### **DEMO VIDEO**



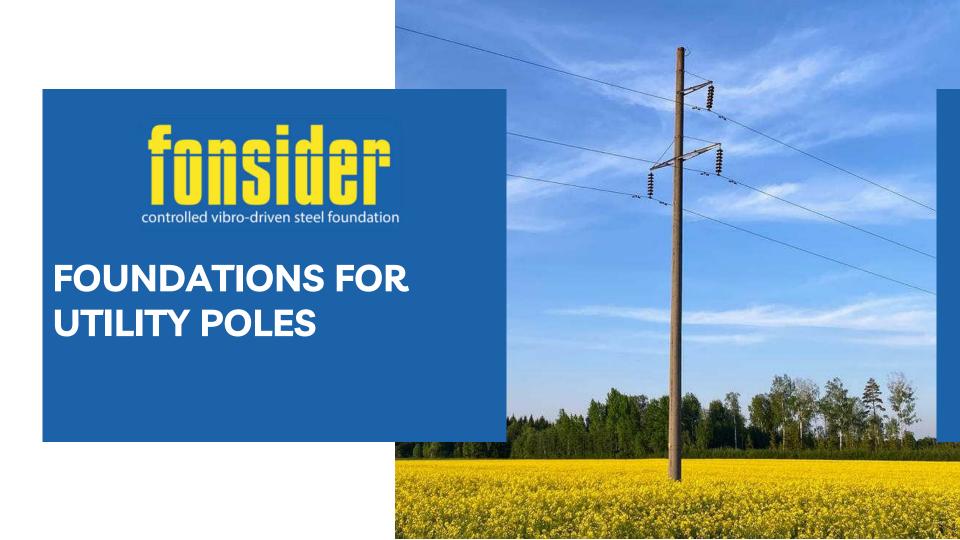








Source: video and more details on request



01

**FOUNDATIONS UNTIL TODAY** 

02

FONSIDER TECHNOLOGY FOR UTILITY POLES FOUNDATIONS

03

**FONSIDER IN ITALY** 

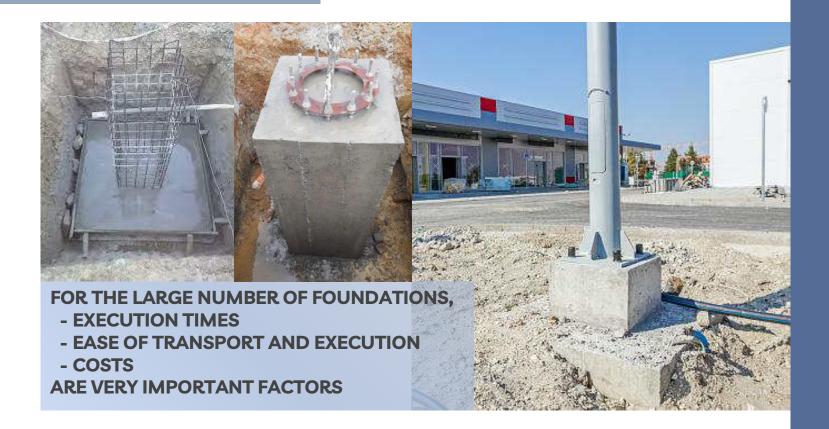
04

**FONSIDER ABROAD** 

05

**DEMO VIDEO** 

# FOUNDATIONS UNTIL TODAY



**О**Н



8:00 AM: START OF WORK

9:00 AM: POLE INSTALLATION











START

Vibrodriving the foundation and pole installation

**AFTER** 

1 HOUR

WE CAN ALREADY INSTALL THE UTILITY POLE



## FONSIDER'S REVOLUTIONARY APPROACH, WHICH ALLOWS THE CONSTRUCTION TO BE COMPLETED WITHIN 1 HOUR, USES THE FOLLOWING ELEMENTS:

- Steel sheets foundations which are driven using our exclusive know-how.
  - The new Fonsider technology:
    - allows to vibrodrive one L-shaped sheet with specific designs
    - allows the pole to be simply driven in said foundation.





### **ADVANTAGES**



#### Speed of execution

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### **Cost savings**

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#### Lower CO2 emissions

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## FONSIDER TECHNOLOGY FOR UTILITY POLES FOUNDATIONS





STRUCTURAL TESTS HAVE BEEN CARRIED OUT WITH THE UNIVERSITY OF PISA



FONSIDER IS LOOKING FOR LEADING ORGANIZATIONS IN EVERY INDUSTRY TO PARTNER WITH.

THE ENERGY INDUSTRY IS ONE OF THEM.





### **DEMO VIDEO**

THE IMAGES REFER TO THE GENERAL CONCEPT OF THE NEW TECHNOLOGY, EASILY CUSTOMIZABLE FOR THE RAILWAY SECTOR.











Source: video and more details on request





01

**FOUNDATIONS UNTIL TODAY** 

02

THE FONSIDER REVOLUTION

03

FONSIDER TECHNOLOGY FOR CATENARY POLES FOUNDATIONS

04

**FONSIDER ABROAD** 

05

**DEMO VIDEO** 

## FOUNDATIONS UNTIL TODAY



THE FOUNDATION REPRESENTS THE HIGHEST COST AND THE LONGEST CONSTRUCTION TIME OF THE ENTIRE INSTALLATION



OH



8:00 AM: START OF WORK

9:00 AM: POLE INSTALLATION











**START** 

Vibrodriving the foundation and pole installation

**IT TAKES** 

1 HOUR

TO BUILD THE FOUNDATION AND INSTALL POLE



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  - allows to correct said error with specific Fonsider joints.
  - allows the column to be simply bolted onto the cap of said foundation.
- The patents are granted internationally making Fonsider truly exclusive.





### **ADVANTAGES**



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### **FONSIDER TECHNOLOGY FOR CATENARY POLES FOUNDATIONS**







FONSIDER IS LOOKING FOR LEADING **ORGANIZATIONS IN EVERY INDUSTRY TO** PARTNER WITH.

THE RAILWAY INDUSTRY IS ONE OF THEM.





### **DEMO VIDEO**











Source: video and more details on request