

The base for your electromobility

ULF – Universal charging station foundation



Legal requirements

EU directive on electric mobility infrastructure in buildings

At new and renovated residential buildings with more than ten parking spaces, each parking space must be equipped to facilitate the charging infrastructure for electromobility.

At non-residential buildings with more than 20 parking spaces, a number of parking spaces determined by the respective country must be equipped with charging points for electromobility.

The line infrastructure includes the entirety of all cable routing to accommodate electrical and data cables, i.e. cable routes in the form of empty conduits, cable ducts, cable trays, etc. must be installed.

The basis for this is Directive (EU) 2018/844 of the European Parliament. In addition, each country is free to introduce more stringent requirements than the ones contained in the directive.

Our solutions

We offer various solutions for setting up a charging infrastructure that meets your needs.

While our ULF foundation solution is speeding up expansion in public and semi-public areas, our comprehensive ETGAR system makes it possible to supply outdoor areas with electricity.



services outlets meets all building sealing requirements – such as gas and water tightness as well as radon

protection.

for buildings with

basement



Ready for electromobility!

Benefits of our solution

- complete system for distributing electric power supply to the properties entire grounds from the building connection room
- retrofitting the empty conduit system is possible at any time without digging
- can be individually expanded, combined and extended thanks to the modular structure





ULF

Connection point

ULF



The universal charging station foundation is suitable for quickly and easily setting up a charging infrastructure at parking spaces. Its low weight makes installation and assembly particularly easy. It can be combined and expanded with the ETGAR system or other empty pipe solutions.

ULF

Preparation connection point

ULF





Even while planning the building and its parking spaces, the universal charging station foundation can be installed ready for connection. This means that subsequent civil engineering work can be avoided and the installation of a charging station can be carried out at any time without complications.

Commercial and public spaces

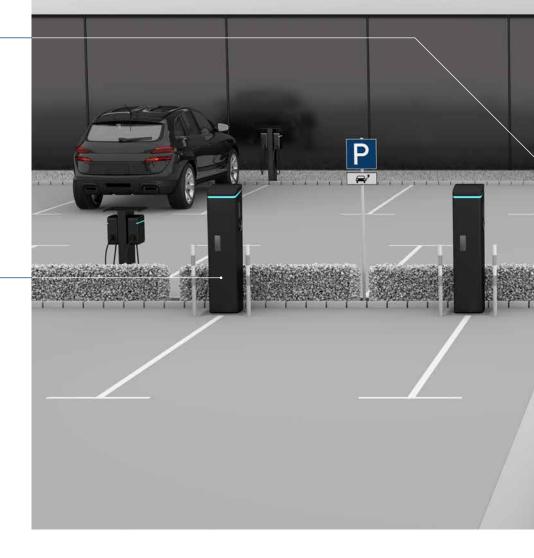
Intelligent charging infrastructure for powering vehicles in the commercial and public spaces:

Commercial space

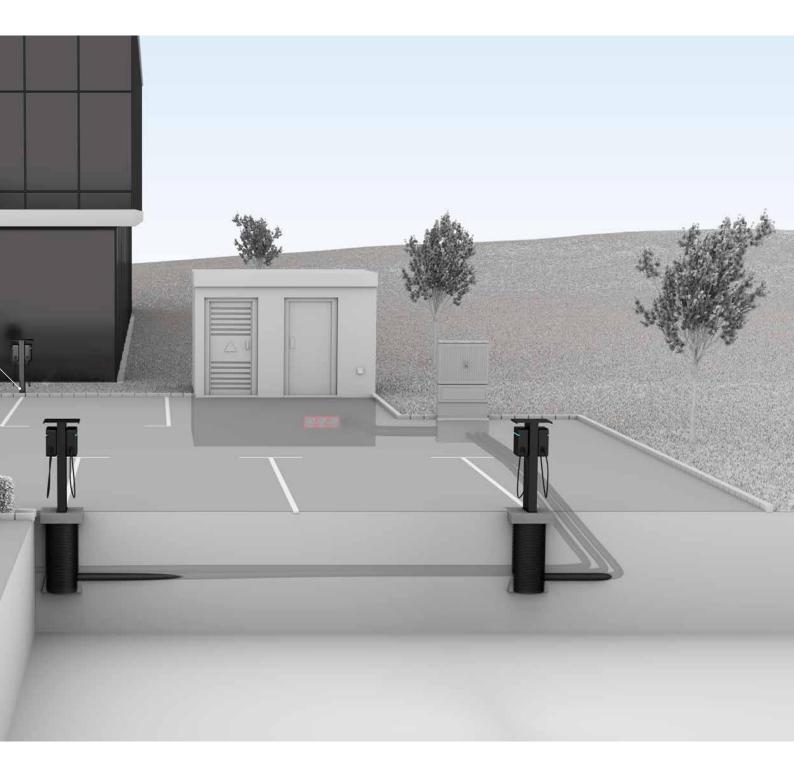
- companies
- hotels
- gastronomy
- housing industry

Public space

- cities
- municipalities
- public institutions







Integrated charging infrastructure

Companies, service providers, hotels and other semi-public facilities will demonstrate a greater need for charging stations in the future

For the predicted upturn in electromobility, the corresponding charging infrastructure will be expanded. Moreover, the European government supports the Europe-wide expansion of the charging infrastructure through Directive (EU) 2018/844. Here, the individual member states are asked to define

country-specific regulations for the minimum number of charging points.

With the universal charging station foundation (short ULF), Hauff-Technik has created an innovative and universal foundation for charging stations.

ULF offers a foundation solution for various types of charging stations, charging columns and for a variety of installation situations.

Universal charging station foundation

Functional principle

ULF is a universal foundation for charging stations and charging columns. Power and data cables are introduced via a conduit connection.

The charging station or pedestal is attached and connected to the foundation plate.

mounting options

screwing or dowelling possible on site

foundation slab

flexible and safe installation of charging stations

foundation pipe

allows alignment of the foundation and a flexible arrangement of the media lines

connection of further ULFs possible

empty conduit

connection option for empty conduits

concrete foundation

attachment of the ULF

charging station

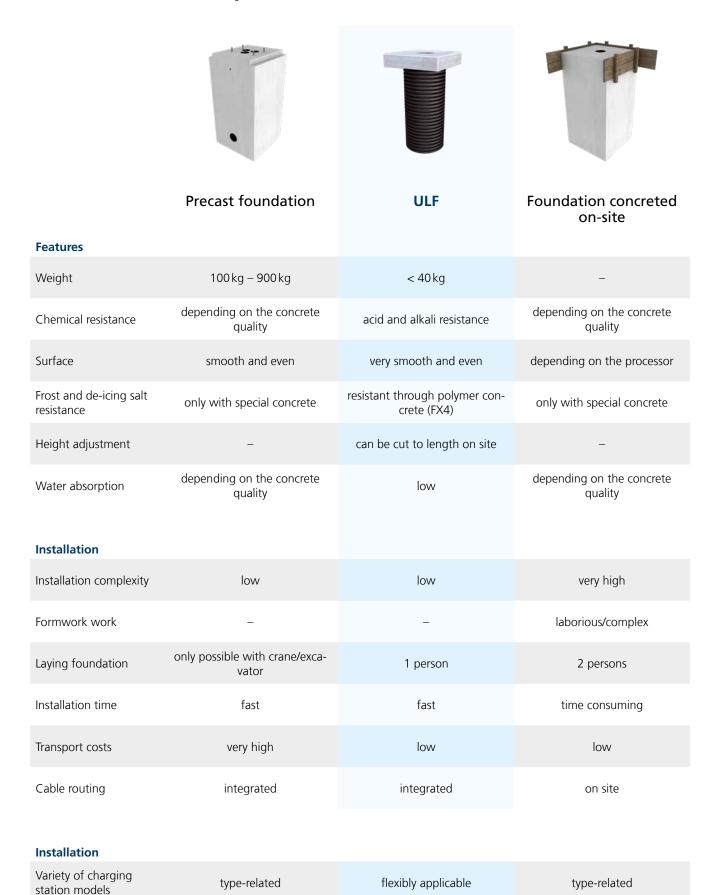
data cable

power cable

electricity from the house connection/transformer station



Foundation comparison



threaded sleeves, tie rods, con-

crete screws, dowels

threaded sleeves, tie rods, con-

crete screws, dowels

Mounting options

concrete screws, dowels, tie

rods

Universal charging station foundation

for the installation of charging columns and charging pedestals

ULF

Universal foundation solution for the installation of charging columns and charging pedestals.

Fastening option on the polymer concrete slab.

Connection of power and data cables via an empty pipe connection.

Advantages



- Universal foundation system for the installation of charging columns and charging pedestals
- Adaptation possibility of empty pipes
- Replacement or exchange of the charging station possible without removing the foundation

Scope of delivery

• 1 piece of ULF with blind plate

Dimensions

- total length: 750 mm
- foundation slab: ULF300: 300 x 300 mm, ULF380: 380 x 380 mm, ULF470: 470 x 470 mm
- height foundation slab: 80 mm
- foundation slap opening: ULF300/ULF380: 110 mm, ULF470: 150 mm

 foundation pipe (Øi): ULF300: DN200, ULF380: DN250, ULF470: DN300

Properties

Weight:

ULF300: 16 kg, ULF380: 24 kg,

ULF470 1x110: 38 kg,

ULF470 1x150: 35 kg

Material

polymer concrete slab: polymer concrete

• foundation pipe: PVC

Туре	Size (mm)	Foundation pipe Øi (mm)	Article code	Article number	GTIN
ULF300	300 x 300	200	ULF300 1x110	3030512350	4052487243452
ULF380	380 x 380	250	ULF380 1x110	3030490218	4052487242851
ULF470	470 x 470	300	ULF470 1x150	3030490219	4052487242875
		300	ULF470 1x110	3030540367	4052487245111

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Accessories

Figure	Item	Article code	Article number	GTIN
	Hole saw for the Universal charging station foundation	Lochsaege 76 SET	3030505139	4052487245418
4		Lochsaege 114 SET	3030505140	4052487245425
11	Concrete screw for the Universal charging station foundation	Betonschraube 6x60 A2K SW13	3030515187	4052487245456
6 6		Betonschraube 6x60 A4 SW13	3030504407	4052487245449
	Sleeve caps for ETGAR foundation box	ETGAR ANS 4x5-25	3030449206	4052487239899







The universal charging column foundation is compatible with the charging columns and wallbox pedestals of various manufacturers.

Find the solution that suits you on our website!

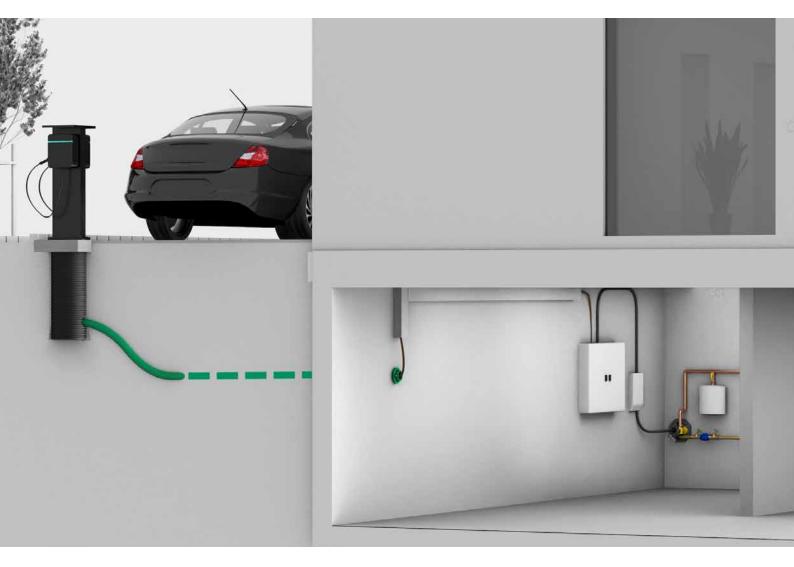


Electromobility in the private sphere

With our solutions you can also create a basis for e-mobility in your private space.

The complete ETGAR system is suitable for distributing electricity easily and reliably across the entire property. The electricity is routed out of the building via the building services outlet to precisely where it is needed using an empty conduit system.

The Universal charging station foundation ULF serves as a ready-to-connect foundation system with which the empty conduits are connected.



Single building services outlet for connecting an electronic device.



Electromobility system overview

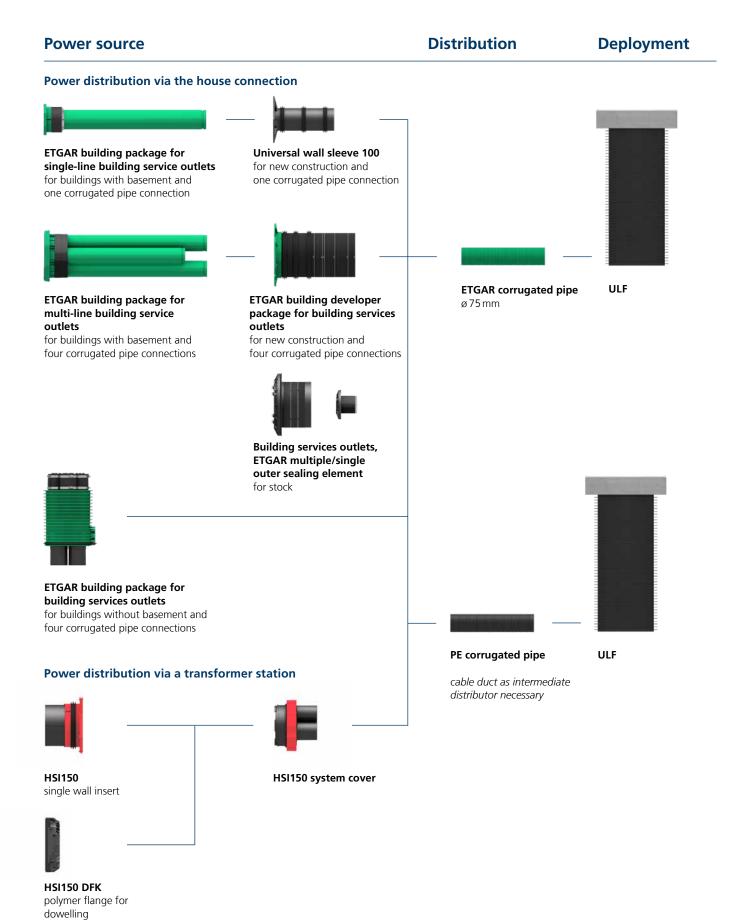






Figure	Item	Article code	Article number	GTIN
	ETGAR building developer package for building services outlets For buildings without a basement	HAB ETGAR BHP ¹⁾	3030404422	4052487231626

¹⁾ Scope of delivery see: www.hauff-technik.com

Building services outlets for buildings with a basement



Figure	Item	Article code	Article number	GTIN
	ETGAR building package for multi-line building service outlets for buildings with a basement	HAW-M ETGAR BHP ¹⁾	3030458211	4052487239936
	ETGAR wall sleeve for building services outlet For ETGAR BHP	HAW-M ETGAR FR	3030458206	4052487239912
	Building services outlets, ETGAR multiple/single outer sealing element	HAW-M ETGAR AD	3030490272	4052487241939
000	ETGAR building package for single- line building service outlets for buildings with a basement	HAW-E ETGAR BHP¹)	3030458216	4052487239967
	Universal wall sleeve for any type of wall	UFR100/200	3030300244	4052487216098
O	ETGAR exterior sealing element for single-line building service outlet for ETGAR building package for single- line building service outlet	HAW-E ETGAR AD	3030491405	4052487242028

Scope of delivery see: www.hauff-technik.com



Distribution on the property or to the parking spaces

Figure	ltem	Article code	Pa- cking unit	Article number	GTIN
	PE corrugated pipe for ETGAR BHP	HAB ETGAR WR75 GR30000	1	3030401995	4052487231374
			6		4052487231671
	ETGAR extension set	HAB ETGAR VLS	1	3030404455	4052487231657
60 60	for ETGAR BHP		6		4052487231640
	Sleeve caps	ETGAR ANS 4x5-25	1	3030449206	4052487239899
	for ETGAR foundation box		10		4052487239905
	Extension sleeve for ETGAR	ETGAR MA70-84/70-84	1	3030403633	4052487232302
	building services outlet		12		4052487231886
	ETGAR foundation box	ETGAR FB	30304	2020454124	4052487239851
	for ETGAR BHP			3030454134	4052487239868
	ETGAR foundation box set	ETGAR FB SET ¹⁾	30	3030482075	4052487242202
	for ETGAR BHP				4052487241908
	ETGAR carrier plate for ETGAR foundation box	ETGAR FB TPL	1	3030454138	4052487239875
			32		4052487239882
	Universal charging station foundation for the installation	ULF300 1x110	1	2020542250	4052487243452
	of charging columns and charging pedestals		9	3030512350	4052487243674

1) Scope of delivery see: www.hauff-technik.com

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