Alpitronic HYC150/300
Construction Signoff Form

Customer Information	
Customer name	
Customer contact name	
Customer contact phone	
Customer contact email	

Site Information	
Street and number	
City	
State	
Country	
Post code Zip code	
Number of chargers to be installed	
Expected start of construction works	
Expected installation and commissioning date	

Site Contractor Information		
Contractor type	ChargePoint designated	☐
	Customer designated	☐
Contractor company name		
Contractor site lead name		
Contractor site lead phone		
Contractor site lead email		

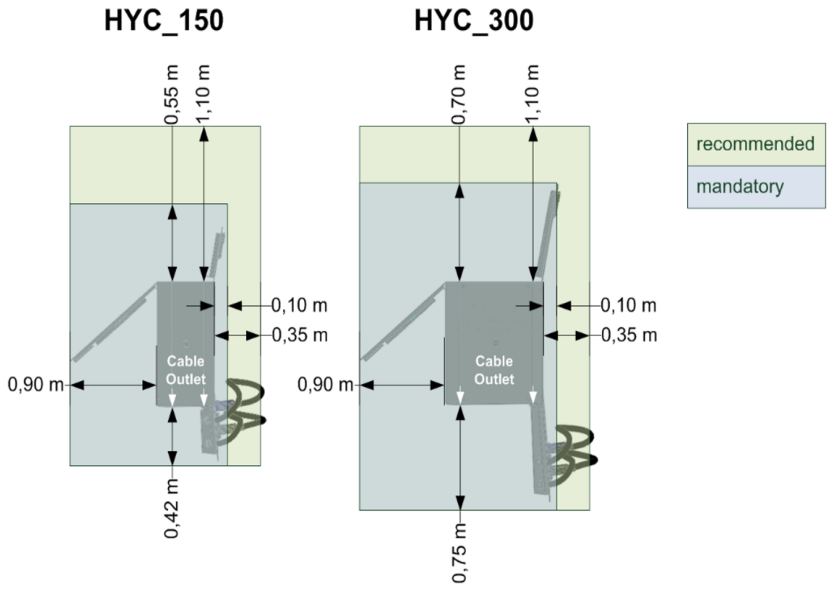
Installer Information		
Installer type	ChargePoint recommended	☐
	Customer recommended	☐
Installation company name		
Installer contact name		
Installer contact phone		
Installer contact email		

1	**Installation Location**	
	a. Outdoor	☐
	b. Indoor	☐
	c. Underground	☐
	Will the station be exposed to outstanding environmental factors? * *i.e. Dust, high humidity, sea salt, snow, corrosive substances	☐

2	**Network Connectivity**			
	Validate Mobile Network availability *4G Signal RSSP should better then -90 dB; Min.: -85 dB recommended for good connectivity and smooth operation. If 4G signal is not available, refer to the availability of 2G or 3G (Switzerland only) **If applicable			
	What mobile carriers are available?			
	Carrier name	4G dBi	3G** dBi	2G** dBi
	1. [ ]	[ ]	[ ]	[ ]
	2. [ ]	[ ]	[ ]	[ ]
	3. [ ]	[ ]	[ ]	[ ]
	Is a 4G signal repeater necessary?* *For areas with poor 4G connectivity the installation of 4G signal repeaters is always recommended. For UK devices readily available on the market can be installed. For EU/Continental Europe countries a repeater should be requested through the local mobile carrier *Are readings in 2.1 outside acceptable range?			☐
3 Noise and EMC Emissions				
	Is the station installed in a residential, commercial, or small business area?* *This product is designed for industrial environments. Use of this product in residential, commercial, and small business environments may cause unwanted electromagnetic interferences. In this case, the user may need to take adequate mitigation measures.			☐
	Does the station need to be configured to low noise emission mode?* *For stations installed in residential areas where the rated noise emission of 65 dB is exceeding local requirements the station can be configured to low noise mode. The low noise mode will affect the station's maximum performance			☐

4 Location Requirements

Are all minimum clearances available for installation and operation? (space and service ability)	☐
Are height requirements met?* *< 2.35 m height required for installed stations equipped with the cable a management system. For the installation process height of ~3.6 m is required to allow for lifting and positioning of the station	☐
Are ventilation requirements met?* *No direct warm air extract exposure for the Hypercharger	☐
Will the cable management system be installed?* *Cable management system is recommended for the >3,5 m cable versions	☐
Is a barrier-free (disability access) version being installed?* *When designing the installation location, please consider wheelchair access according to local disability requirements	☐



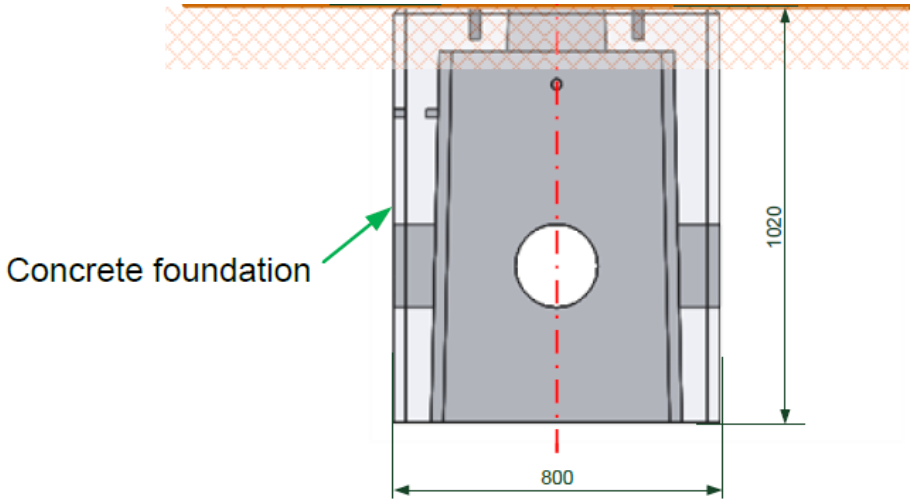
Block Sizes:

HYC_150	Recommended	1680 x 2370 mm
	Mandatory	1420 x 1820 mm
HYC_300	Recommended	1980 x 2700 mm
	Mandatory	1730 x 2300 mm

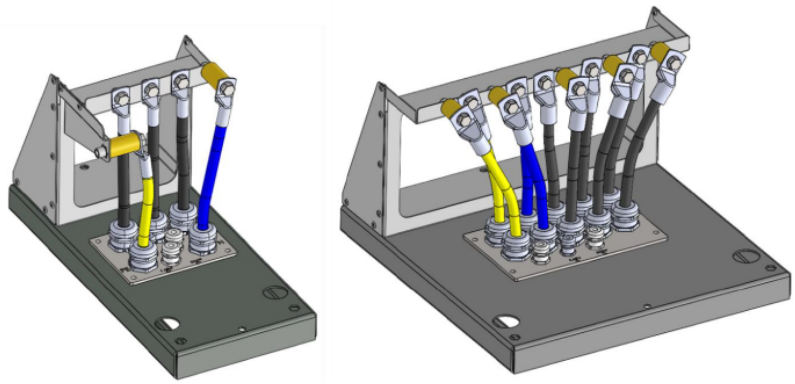
5 Physical Requirements

Was the pre-fab foundation from Alpitronic used?

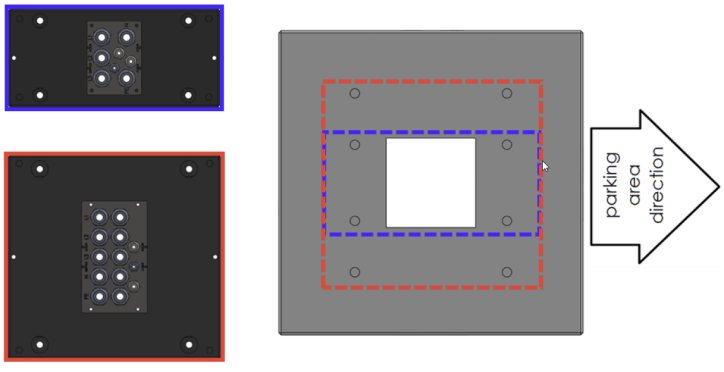
Required available depth of 1020 mm



Did the contractor use the Alpitronic cable jig for cutting and terminating the AC supply cables?

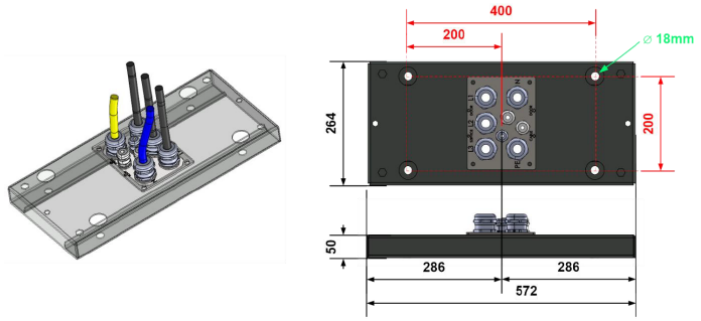
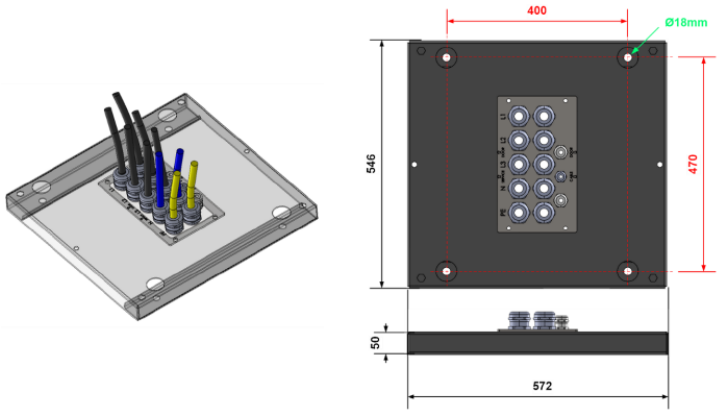


Note: Ensure the orientation of the foundation is facing the parking area.



6 AC Supply Guide Installation

Was the Alpitronic AC supply guide used by the contractor when designing the electrical supply installation?	☐
Does the customer need a custom / single entry cable plate?* *The standard cable entry plate is 5 + 2 + 1 or 2x5 + 2 + 1. Other configurations are custom and need to be ordered from Alpitronic separately. Refer to the Alpitronic installation guide for more information.	☐

HYC_150	
HYC_300	

HYC_150	HYC_300
5 x M40 Hole for cable glands with a clamping range of: 19-28 mm (L1, L2, L3, N, PE) 1* x M20 Hole for cable glands with a clamping range of: 7-13 mm 2* x M25 Hole for cable glands with a clamping range of: 11-17 mm (for data cables, if used)	10 x M40 Hole for cable glands with a clamping range of: 19-28 mm (L1, L2, L3, N, PE each) 1* x M20 Hole for cable glands with a clamping range of: 7-13 mm 2* x M25 Hole for cable glands with a clamping range of: 11-17 mm (for data cables, if used)
*Other configurations, if wanted, must be requested by the customer	

Single (individual) cables need to be installed for each phase, N and PE.

6 AC Supply Guide Installation

Model	Power supply connections	Conductor cross sections
HYC_ 150	L1, 2, 3	1 x 150 or 180 mm^2
	N	1 x 25 mm^2 Germany: matching conductor size 1 x 150 or 180 mm^2 is required
	PE (PEN)	1 x 150 or 180 mm^2
HYC_ 300	L1, 2, 3	2 x 150 or 180 mm^2
	N	1 x 25 mm^2 Germany: matching conductor size 1 x 150 or 180 mm^2 is required
	PE (PEN)	1 x 150 or 180 mm^2

With the HYC_300, two PE and N conductors are not required; one ground and one neutral conductor are sufficient. The sizing is to be selected according to the local regulations.

The N conductor is only used for the internal AC service socket, and for the optional AC charging (up to 32 A) for stations configured with an AC connector.

7 Grid Connection

What is the power available on site for the charger(s)?* *150 kW HYC_150 is rated at 250 A input current @ 400 V 300 kW HYC_300 is rated at 500 A input current @ 400 V	[ ] kVA
What type of grid system is available?* *Hyperchargers do NOT support IT grids -> Relevant in certain regions of Belgium and Norway and unique installation i.e.: ferries.	
TN-S	☐
TN-C	☐
TN-CS	☐
TT	☐
IT	☐
Will a grid connection upgrade be required?	☐
Will a new electrical distribution panel be required?	☐
Do the local electrical regulations stipulate the need for RCDs (residual current devices) to be installed?	☐
Will any power management features be required?	
a. Power limitation	☐
b. Power sharing	☐

8 Installation Documentation/Images • All pictures submitted should be in .jpg format • All pictures should be sharp and frame on the item to be documented • The resolution of pictures submitted should be between 5.0-12.1MP		
	Picture of the charger concrete pads, anchoring bolts, and conduit stub ups* * For all applicable slabs	
	Picture of the AC Supply Cable, and termination of the cables (if applicable) * For all applicable cables terminations	
	Picture of available area around the chargers (for service clearances and ventilation)	
	Picture of installed bollards / wheel stops (if applicable)	
	Picture of the distribution panel (front open) with visible breakers	
	Picture of the distribution panel (external)	
	Picture of the distribution panel cable terminations	
	Picture of the station individual breakers and labels (with visible breaker model / settings)	
	Picture of mains disconnect / breaker feeding station subpanel / breakers with visible breaker model / settings	
	Site SLD (Single Line Diagram) * Including breaker settings	
	Site mechanical drawing (if available)	
	Make, Model and specifications of the AC Cabling (Size, Material, Isolation, Ratings) used to feed the station(s)	
	Electrical measurements:	
	a. Line to Line Voltage (L1-L2,L1-L3,L2-L3)	

	b. Line to N Voltage (L1-N,L2-N,L3-N)	
	c. N to G Voltage (N-G)	
	d. Grounding Impedance	
	Alpitronic commissioning protocol (only if the same contractors execute the site preparation work and the physical station installation) *As required in the Alpitronic Installation manual	

Legal Disclaimer

ChargePoint is not responsible for verifying this information, and the creator of the protocol remains responsible for this information.

ChargePoint accepts no ongoing responsibilities for the electrical design and the installation specifics.

chargepoint.com/support

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