

S i g n s e n s t r a a t m e u b i l a i r

Project naam: McDonald's Utrecht Hooggelegen

Projectnummer: **1525-169**

Datum: 13-07-2021

Gewijzigd: -

Inhoud:

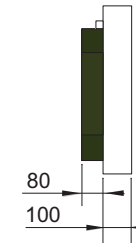
Totem	DT-I
Gateway sign	GS-I
Digitale menuborden	DMB-I/ 2
Praatpaal +canopy	DTC+COD
Dual drive sinage	CS

Groundplugs fundatie

Voor positie en aantallen zie tekening Terrein en Gevel tekening

McDonald's

124-451-001 - McD Fascia 600 mm LED - green Substructure



Dimensions:

5493 x 600 x 180 mm

Design:

2 mm Aluminium-backplate glued with 10 mm Foamex plate. LED modules installed on the Foamex plate. Cover made of 3mm white acrylic glass, case opaque, front of the letters translucent. Cover fixed with screws on the Foamex plate. Single letters are mounted on a substructure made of welded aluminium profiles, coated in dark green - Akzo Nobel MK 120 or brown - RAL 8003.

Illumination:

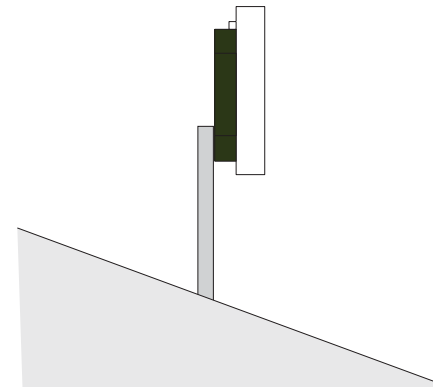
Internal illumination with LED.

Technical Information:

Nominal Voltage:	230V
Frequency:	50-60 Hz
Connected Load:	184 W
Connecting Cable:	3 x 1,5 mm ²
Fuse Protection:	C16 A

Installation:

Roof mounted on a Substructure (to be ordered separately). The substructure has to be installed in advance, roof needs to be sealed by a qualified person after installation of the substructure. Once connected and fitted the sign should be tested for functionality.



The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

89/336/EWG, 92/31/EWG, 73/23/EWG

124-000-001 - Wall-Logo Height 565 mm WxHxD - 646 x 565 x 120

Dimensions:

see schedule above

Design:

2 mm Aluminium-backplate glued with 8 mm Foamex plate. LED modules installed on the Foamex plate. Letter Casing and Cover made of thermo-formed 3 mm yellow, flat acrylic glass fixed with screws at Foamex plate.

Illumination:

Internal illumination with LED.

Illuminants:

Logo 565: 12 V LED

Connected load:

8,2 W

Technical Information:

Nominal Voltage: 230V
 Frequency: 50-60 Hz
 Connecting Cable: 3 x 1,5 mm²
 Fuse Protection: C16 A

Installation:

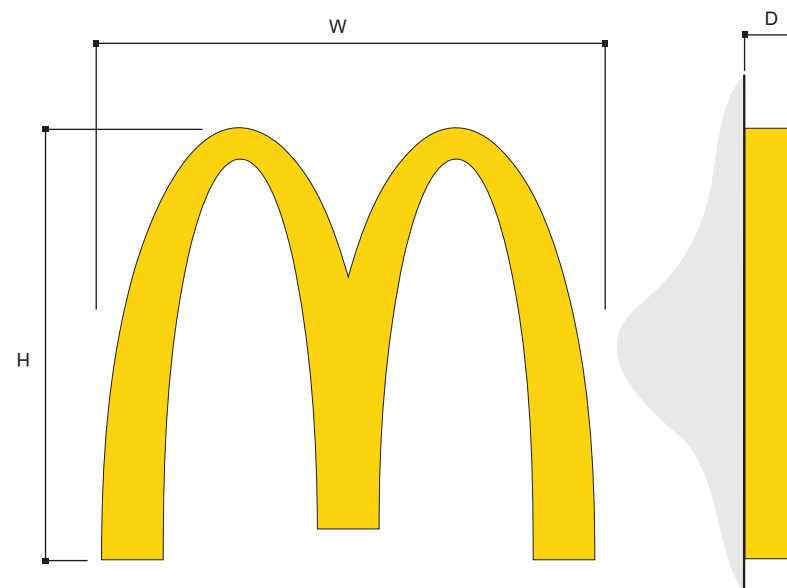
Wall Installation with plugs and screws. The sign is internally cabled and requires on-Site connection to existing Power Supply Cable. Once connected and fitted the sign should be tested for functionality. Sign can also be installed on the roof with a substructure, which has to be ordered separately.

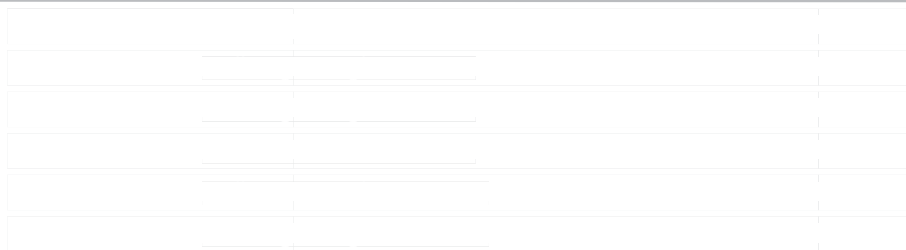
The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

89/336/EWG, 92/31/EWG, 73/23/EWG





124-370-001 - Wall-Logo Height 1800mm **WxHxD** - 2057 x 1800 x 180

Dimensions:

see schedule above

Design:

Backplate and Letter Casing made of formed and welded Aluminium, Trim yellow coated extruded PVC, Letter Cover 3 mm yellow, flat acrylic glass.

Illumination:

Internal illumination with LED.

Illuminants:

Logo 1800: 12V LED

Connected load:

68W

Technical Information:

Nominal Voltage: 230V
Frequency: 50-60 Hz
Connecting Cable: 3 x 1,5 mm²
Fuse Protection: C16 A

Installation:

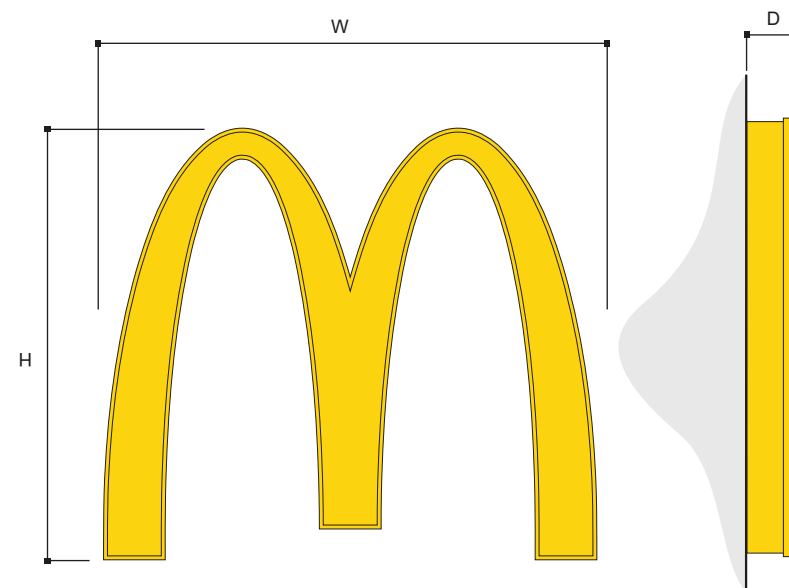
Wall Installation with plugs and screws. The sign is internally cabled and requires on-Site connection to existing Power Supply Cable. Once connected and fitted the sign should be tested for functionality. Sign can also be installed on the roof with a substructure, which has to be ordered separately.

The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

89/336/EWG, 92/31/EWG, 73/23/EWG



124-904-001 Artikelnummer mit brauner UK

124-903-001 Artikelnummer mit grüner UK

Maße: 2000 x 804 x 200 mm**Buchstabenkörper:**

Ausführung in Profil 8. Zarge aus thermisch verformtem weißen Acryl (3mm) - mit 3mm Acryl-Spiegel verklebt.

Rückwand aus Aluminiumblech (2 mm) mit aufgeklebter PVC-Platte (10 mm) als Trägerelement für die LED-Module.

PVC-Platte ist umlaufend 3 mm kleiner als die Aluminium-Trägerplatte.

Die Acrylzarge wird durch seitliche Verschraubungen in der PVC-Platte mit der Rückwand verbunden.

Tragkonstruktion:

Aluminium-QR 80 x 80 mm - mit Vertikal-Stützen 20 x 20 mm gemäß RAL 8003 oder dunkelgrün - Akzo Nobel MK 120 pulverbeschichtet.

Ausleuchtung und LED-Wechsel:

LED mit elektronischen Vorschaltgeräten.

LED-Wechsel beim Logo durch Abnehmen der Buchstabenkörper

Technische Daten:

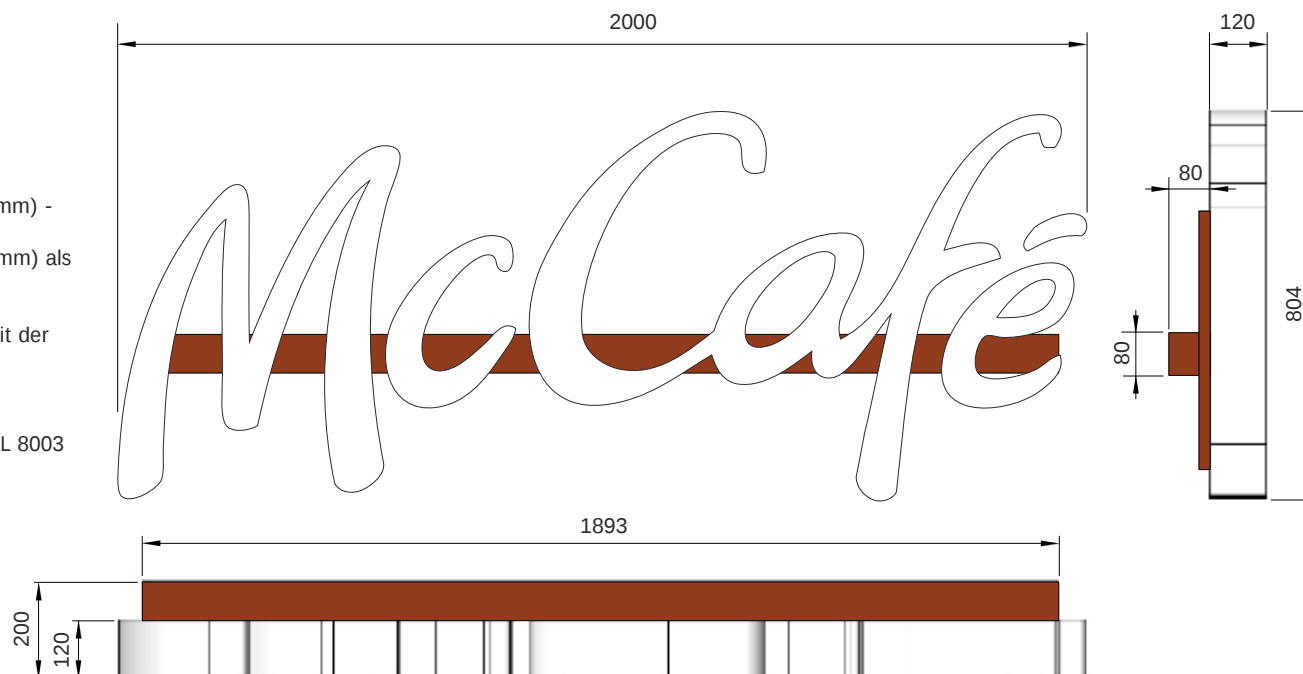
Netzspannung: 230V
 Frequenz: 0/50-60 Hz
 Anschlußleitung: 3x 1,5 mm
 Absicherung: C16 A
 Gesamtleistung: 60 W

Das Element stimmt mit den Vorschriften folgender Richtlinien überein:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE-konform nach folgenden Richtlinien:

89/336/EWG, 92/31/EWG, 73/23/EWG



124-412-001 Drive Totem 1 - 1,7m

Dimensions:

(WxHxD) 1025 x 1700 x 320 mm

Design:

Galvanized steel-construction, Cover made of 3 mm Reynobond "Italian Walnut" (McCafé-element & bottom element), other elements coated in dark green - Akzo Nobel MK 120 (M & Mcdrive). M cut out-yellow acrylic glass pushed through, McCafé and McDrive cut out and back-layed with acrylic glass. Side faces coated in RAL 7022. Plinth made of Aluminium, coated in RAL 7022. Element "McDrive" is rotatable.

Illumination:

Internal illumination with LED.

Technical Information:

Nominal Voltage:	230V
Frequency:	50-60 Hz
Connected Load:	300 W
Connecting Cable:	3 x 1,5 mm ²
Fuse Protection:	C16 A

Installation:

Free-standing Installation with fixing bolts in existing foundation. Bolts according to DIN norm. When using Fixing Bolts ensure that the concrete has hardened sufficiently in accordance with specified requirements of the Bolt. Once connected and fitted the sign should be tested for functionality.

Foundation/Fixing Material:

1600 x 1600 x 900 mm - Concrete C 25/30 / Fixing Bolts

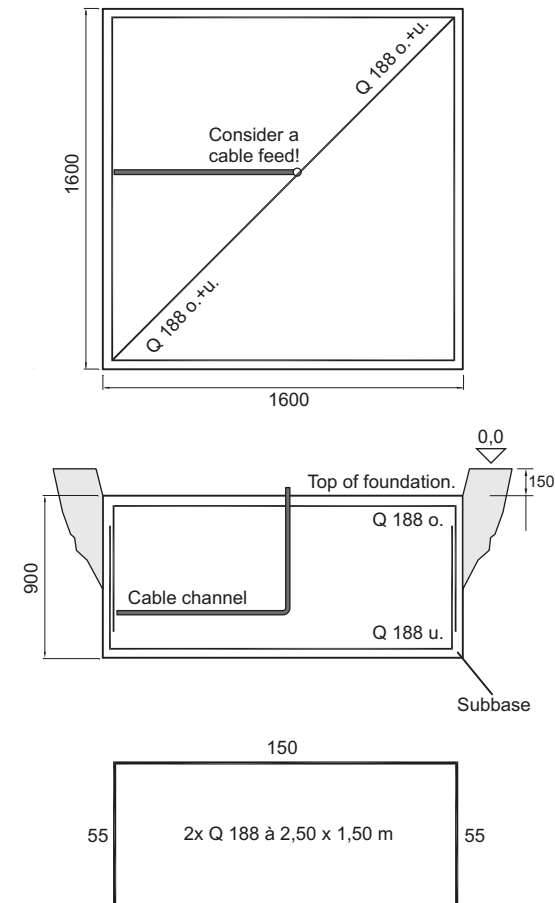
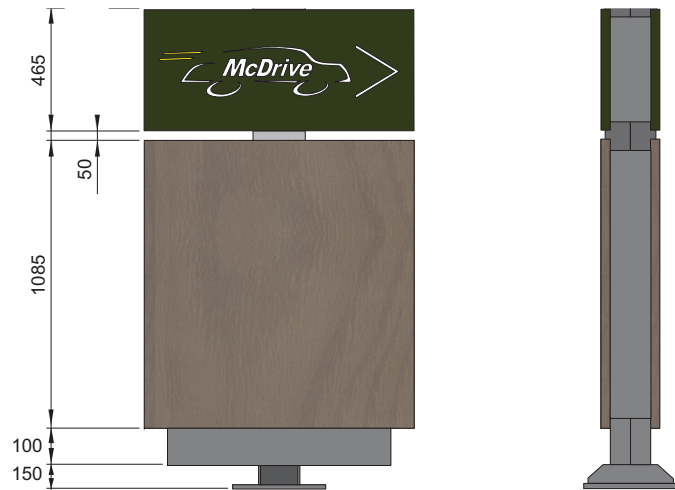
The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

89/336/EWG, 92/31/EWG, 73/23/EWGG





**A geotechnical survey should be done
to confirm conditions for the Foundation.**

Individual Foundation drawings are available upon request.
Local conditions and requirements should be observed and adhered to at all times.
Foundations should only be planned and cast by suitably qualified persons.
Lightning strike protection should be installed as per the local legal requirements.

GS-1 Gateway sign

McDonald's

Dimensions:

(WxHxD) 4250 x 3300 x 200 mm

Design:

Gateway Sign is rotative as an entire sign. It allows a manual rotation to open the gateway. Galvanized steel-construction, cover made of 3 mm Reynobond "Italian Walnut"

Arm rotative as a flip-bar made of galvanized steel-construction with Reynobond cover coated in dark green- Akzo Nobel MK 120. Stripes made of reflective vinyl with additional LED modules (optional!). Logos, "24" (optional!) and "McDrive" cut out and back-layed with acrylic glass/illuminated. Credit card logos digital-print on dark green background. Plinth made of Aluminium, coated in in RAL 7022.

Illumination:

Internal illumination with LED.

Illuminants:

Lightbox: 12 V LED

Technical Information:

Nominal Voltage: 230V
Frequency: 50-60 Hz
Connected Load: 40 W
Connecting Cable: 3 x 1,5 mm²
Fuse Protection: C16 A

Installation:

Free-standing Installation with fixing bolts in existing foundation. Bolts according to DIN norm. When using Fixing Bolts ensure that the concrete has hardened sufficiently in accordance with specified requirements of the Bolt. Once connected and fitted the sign should be tested for functionality.

Foundation/Fixing Material:

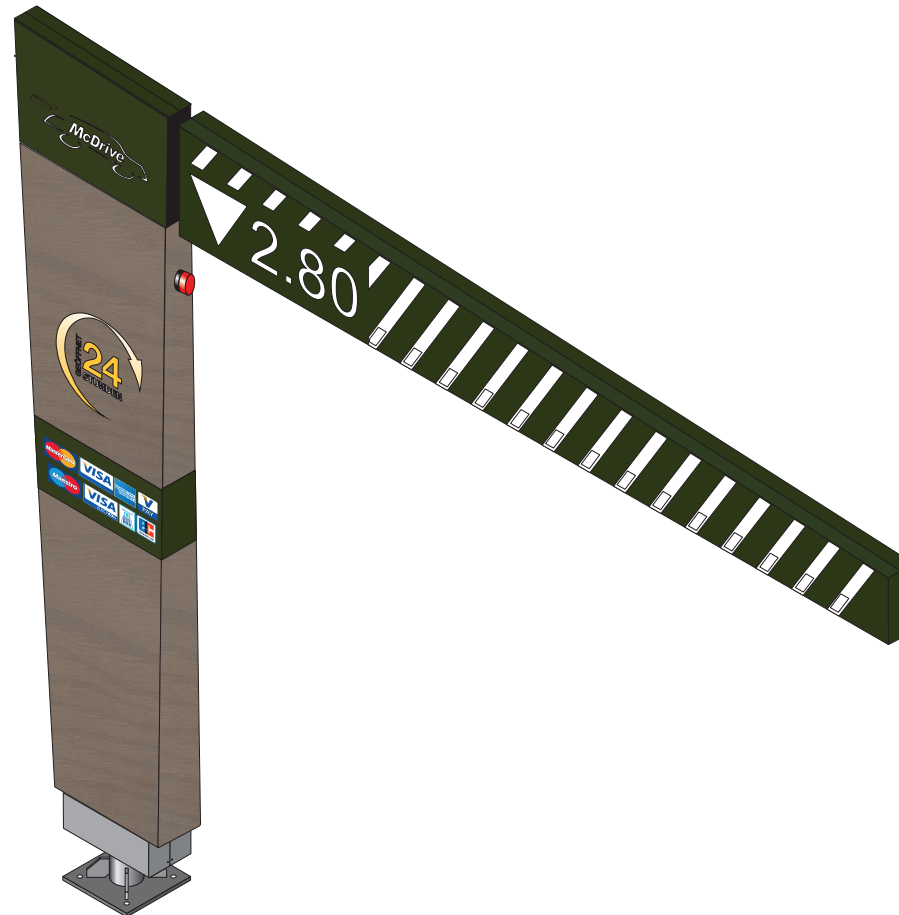
1300 x 1300 x 1000 mm - Concrete C 25/30 / Fixing Bolts

The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

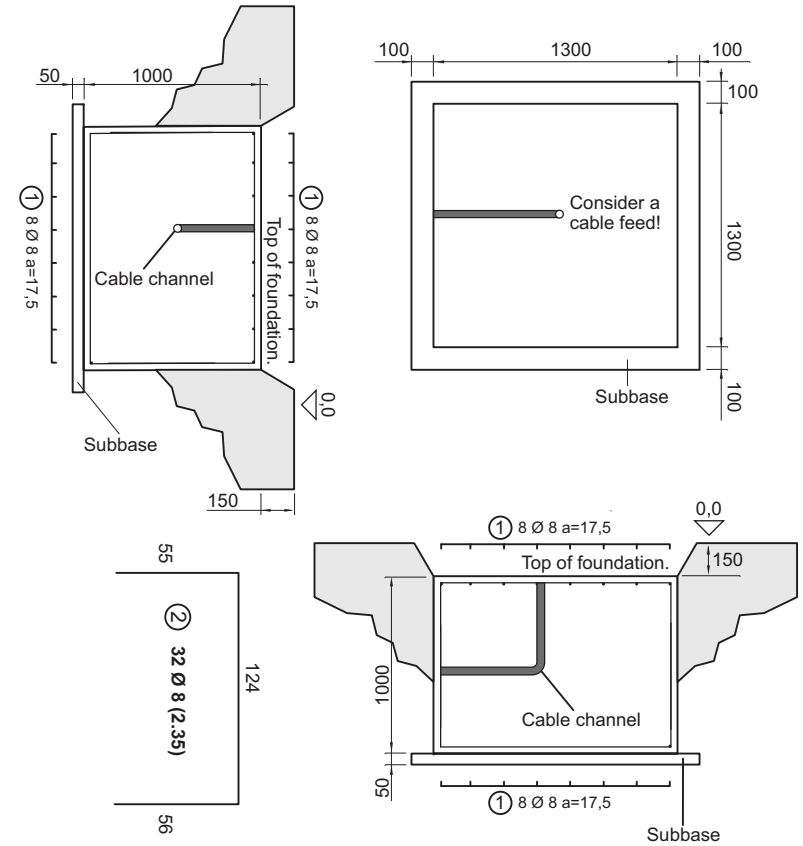
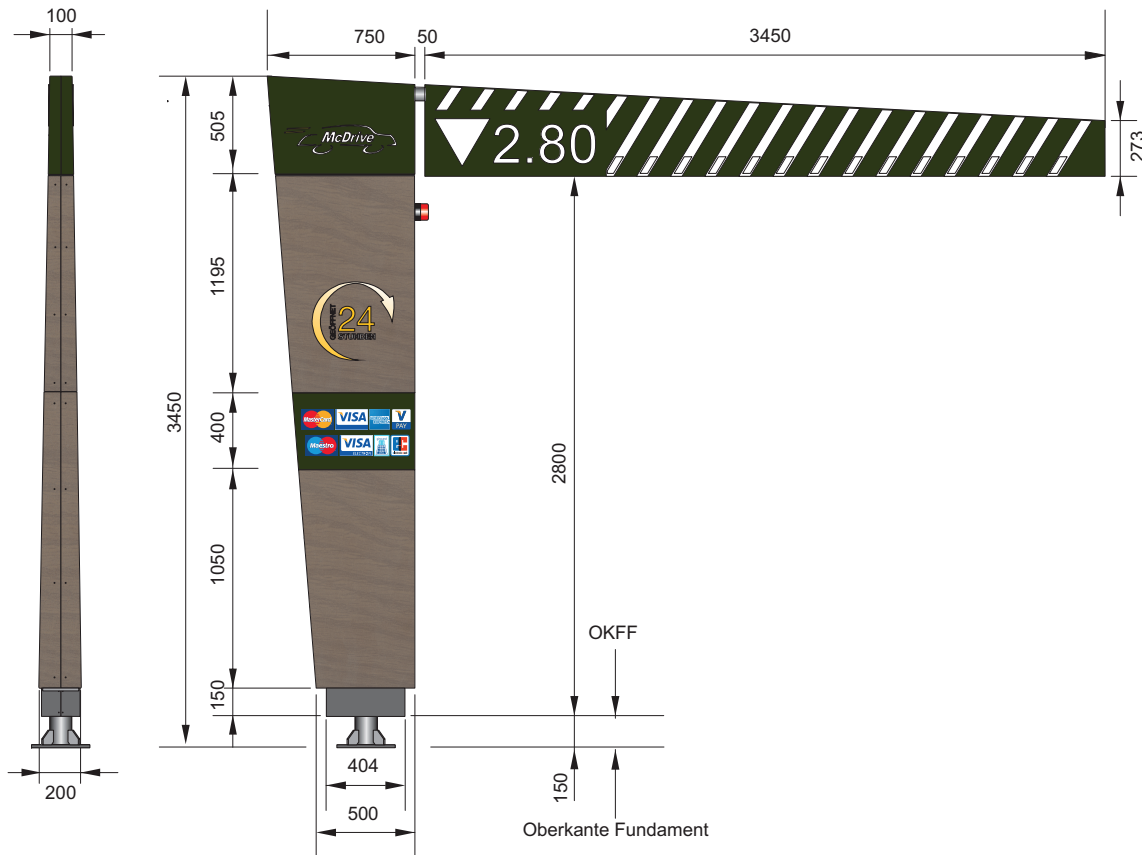
89/336/EWG, 92/31/EWG, 73/23/EWG



GS-1 Gateway sign

124-428-001 Gateway Sign 1 - left

McDonald's



A geotechnical survey should be done to confirm conditions for the Foundation.

Individual Foundation drawings are available upon request.
Local conditions and requirements should be observed and adhered to at all times.
Foundations should only be planned and cast by suitably qualified persons.
Lightning strike protection should be installed as per the local legal requirements.

Dimensions:

(WxHxD) Canopy: 2294 x 3525 x 200 mm
(WxHxD) Steel Frame: 800 x 2978 x 500 mm

Design:

Galvanized steel-construction coated in RAL 7022 - grey, case for COD coated in RAL 7022 - grey. Roof made of Polyethylen, coated in white - RAL 9010. Triangle made of red, translucent acrylic glass illuminated with LED, decal made of white opaque vinyl. Plinth made of Aluminium, coated in in RAL 7022. Additional LED modules for the illumination of the COD are installed under the canopy.

Illumination:

Internal illumination with LED.

Technical Information:

Nominal Voltage: 230V
Frequency: 50-60 Hz
Connected Load: 69 W
Connecting Cable: 3 x 1,5 mm²
Fuse Protection: C16 A

Installation:

Free-standing Installation with fixing bolts in existing foundation. Bolts according to DIN norm. When using Fixing Bolts ensure that the concrete has hardened sufficiently in accordance with specified requirements of the Bolt. Once connected and fitted the sign should be tested for functionality.

Foundation/Fixing Material:

1600 x 1400 x 1000 mm - Concrete C 25/30 / Fixing Bolts

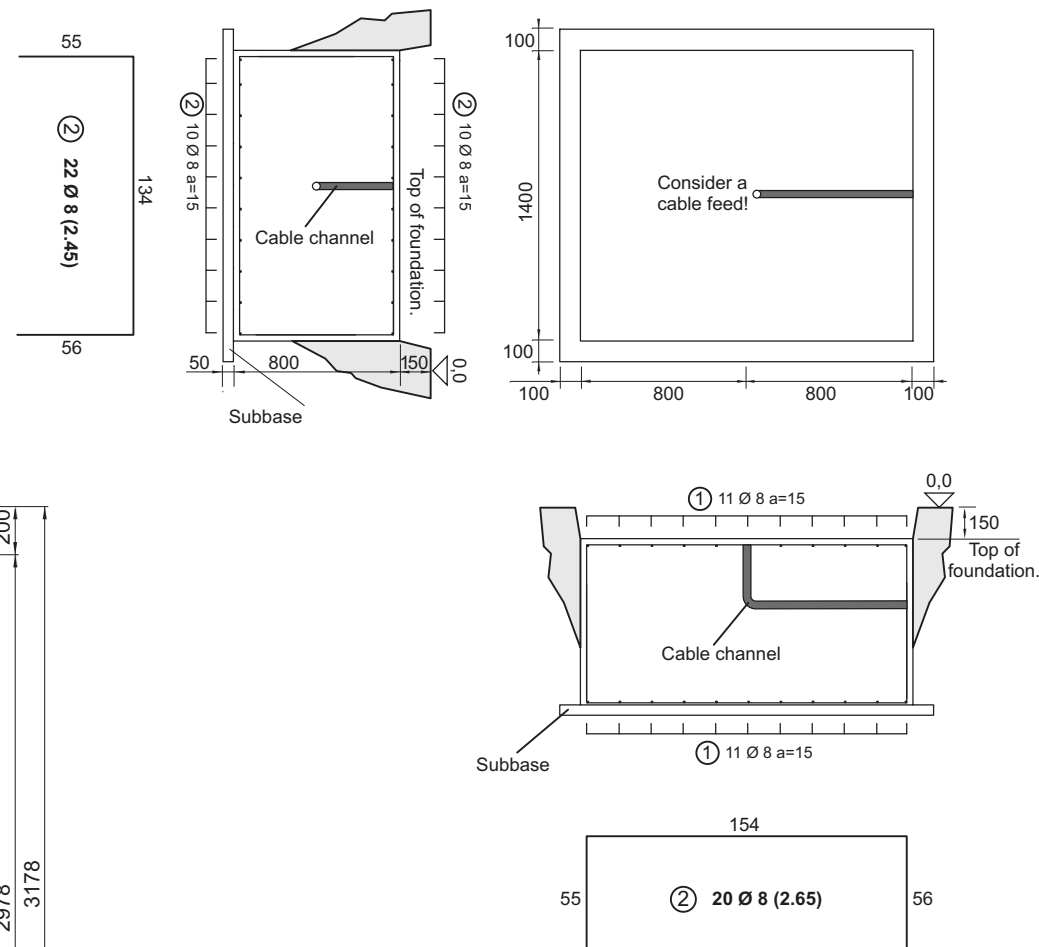
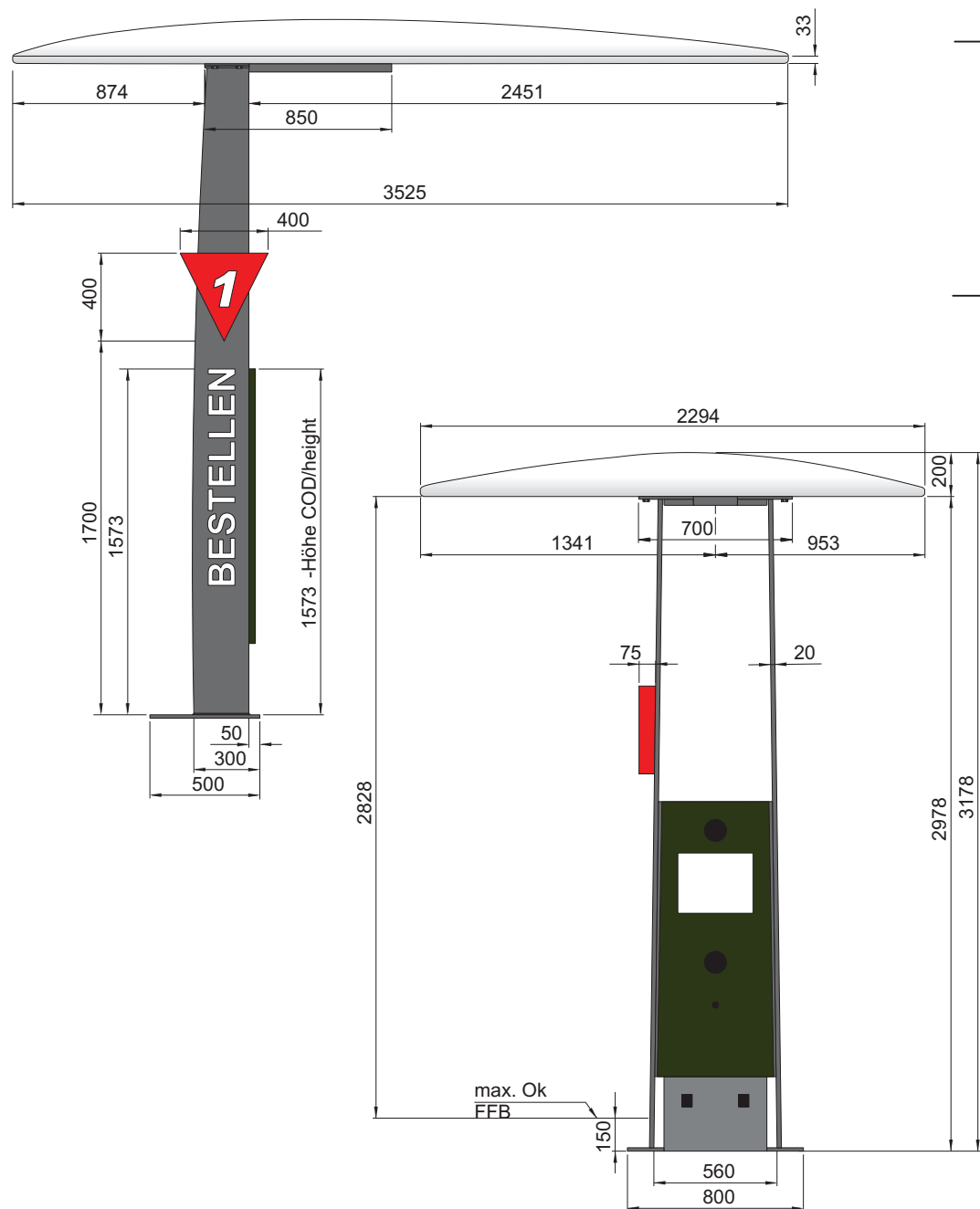
The Sign conforms with the following guidelines:

VDE 0100, VDE 0128, VDE 0711, EN 55015, EN 60598, EN 50107, EN 61547, EN 6100-3-2

CE conform according to guidelines:

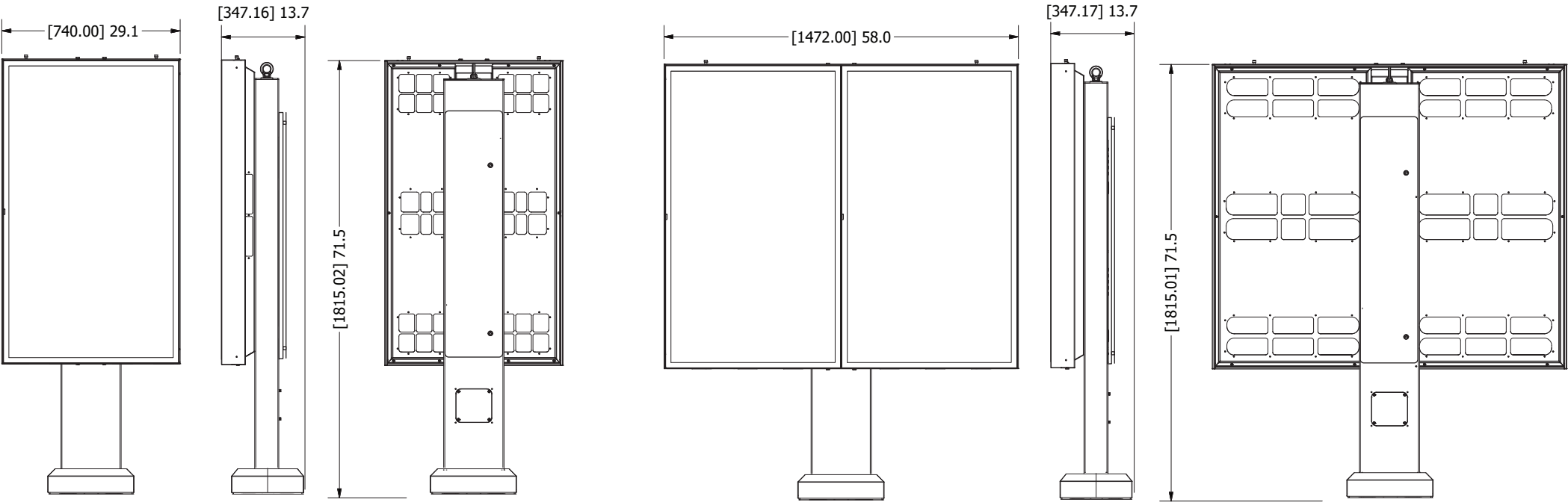
89/336/EWG, 92/31/EWG, 73/23/EWG





A geotechnical survey should be done to confirm conditions for the Foundation.

Individual Foundation drawings are available upon request.
Local conditions and requirements should be observed and adhered to at all times.
Foundations should only be planned and cast by suitably qualified persons.
Lightning strike protection should be installed as per the local legal requirements.



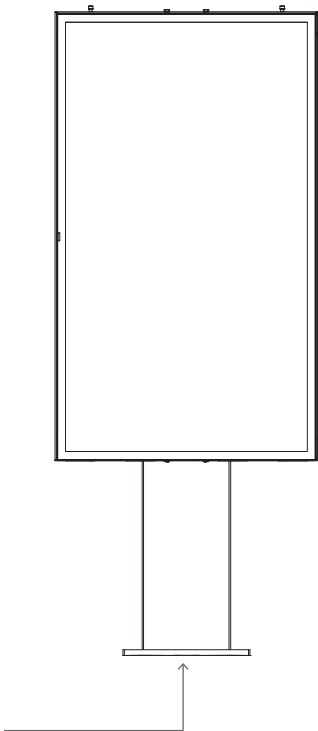
Power

The units are designed with an internal 20amp circuit breaker.
The circuit draw should be calculated based on number of units to be installed on a site by site basis.
The units have flexible conduit inside to run power from the drive-thru lanes to the internal breaker.

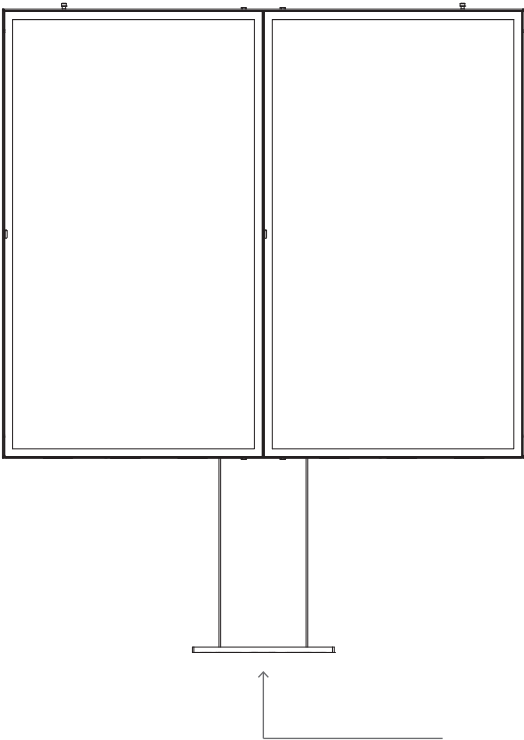
Data cables

Single units require 2 x Cat 6 cables with:
1 x Female connectors 2 metres of cable above ground
1 x Male end with at least 1.6 metres of cable above ground

Double units require 4 x Cat 6 cables with:
2 x Female connectors with at least 2.2metres of cable above ground
2 x Male ends with at least 2.2 metres of cable above ground



Max potential power consumption is 2.6 Amps max @220V



Max potential power consumption is 4.9 Amps max @220V

Note: These numbers are maximum current draw to be allowed for, and are not an indication of power consumption over time.

Dimensions:

(WxHxD) 1129 x 1560 x 368 mm

Design:

Galvanized steel-post and foot-plate. Dual lane sign with aluminium backplate, Front covers made of white acrylic glass with green foil applications.

Illumination:

Internal illumination with LED.

Technical Information:

Nominal Voltage: 230V
Frequency: 50-60 Hz
Connected Load: 53 W
Connecting Cable: 3 x 1,5 mm²
Fuse Protection: C16 A

Installation:

Free-standing Installation with fixing bolts in existing foundation. Bolts according to DIN norm. When using Fixing Bolts ensure that the concrete has hardened sufficiently in accordance with specified requirements of the Bolt. Once connected and fitted the sign should be tested for functionality.

Foundation/Fixing Material:

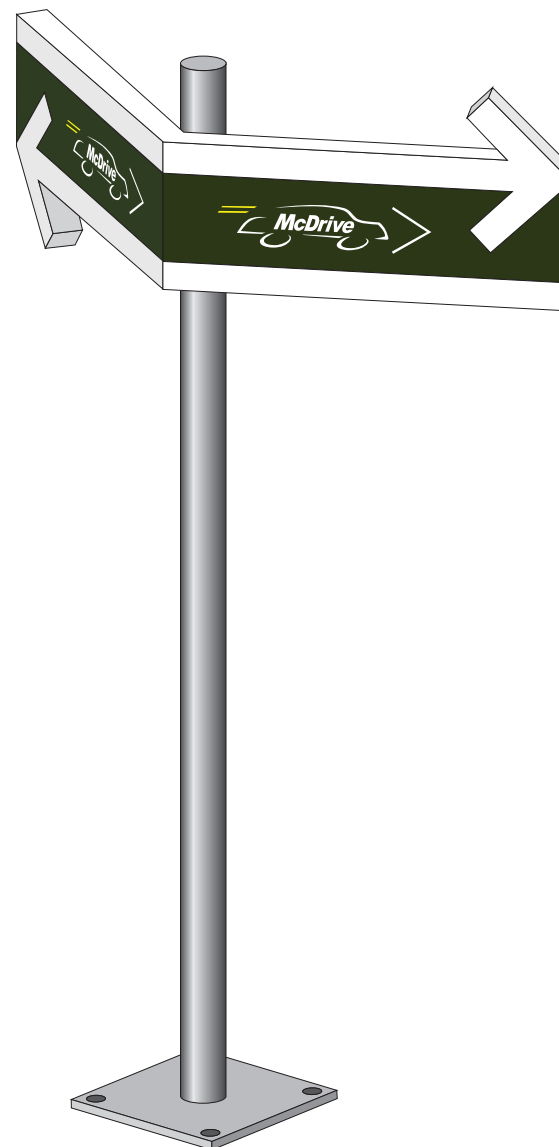
1000 x 1000 x 800 mm - Concrete C 25/30 / Fixing Bolts

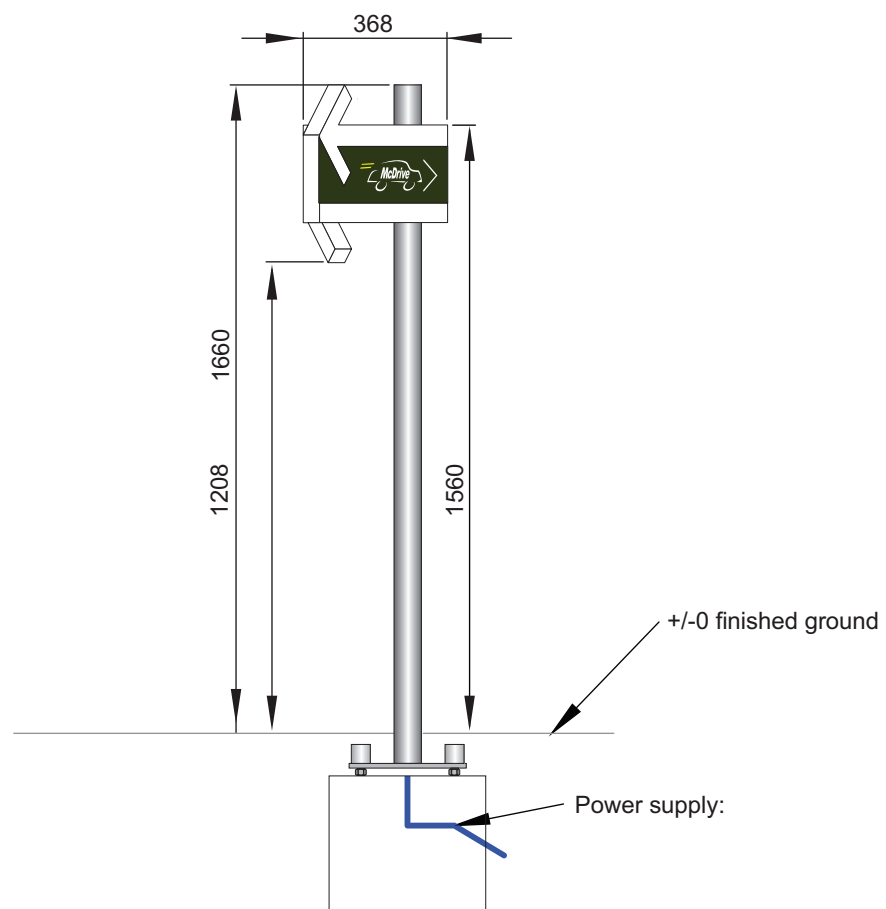
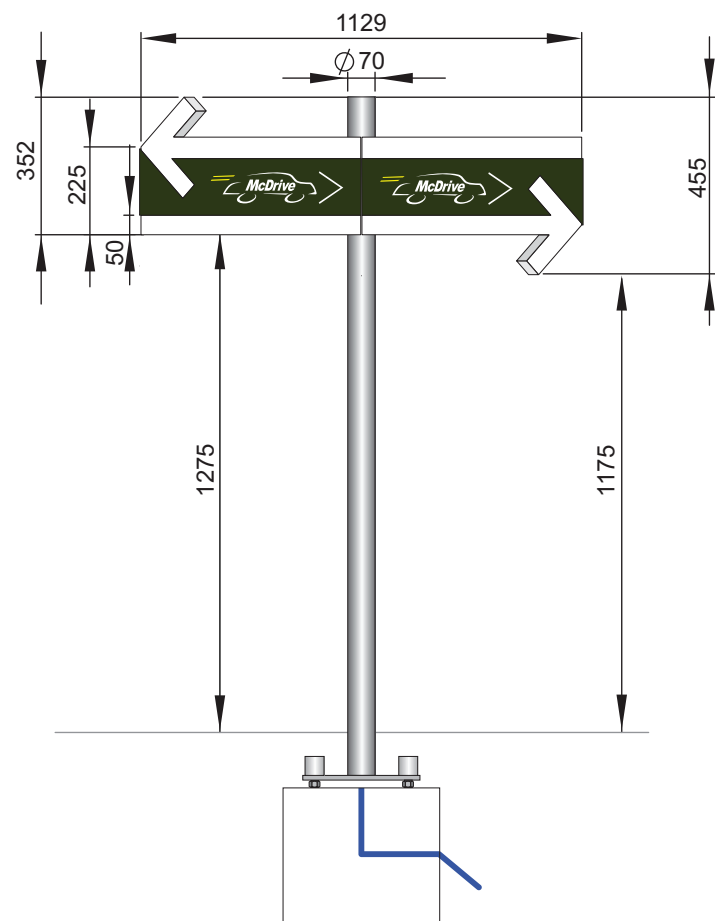
The Sign conforms with the following guidelines:

See product information of the producer.

CE conform according to guidelines:

See product information of the producer.

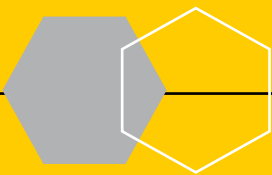






GROUND PLUG[®]

DE PERFECTE OPLOSSING VOOR FUNDERINGEN



- **Sterk kosten-en tijdbesparend** – de plaatsing gebeurt zeer snel, zonder te graven
- **Geen aanaarding** – u hoeft geen zand, grond of ander basismateriaal aan te vullen
- **Netjes** – er is geen restgrond na de aanleg, dus altijd een fatsoenlijke oplevering
- **Direct belastbaar** – plaatsen en gelijk monteren



GROUNDPLUG® — een innovatief, economisch Deens product

Gebruiksklare funderingsopties tegen minimale kosten, met de grootste efficiency. De GroundPlug® funderingstechniek is een gepatenteerde manier van verankering, ontworpen naar de moderne wensen van de klant.

Tijdsbesparing is geld, nietwaar?

Graven, grond bijvullen, beton storten of zand aanvegen na aanleg behoren tot het verleden met de GroundPlug®.

De plaatsing wordt qua positionering zeer precies uitgevoerd door middel van een uitgekiende triltechniek.

Logistiek zeer efficiënt en uiterst milieuvriendelijk. Bovendien zijn er geen storende betonfunderingen meer in het zicht.



INSTALLATIE IN 3 STAPPEN

- 1 tril de Groundplug® in de grond, op de gewenste diepte
- 2 draai de ankerschepbladen open door de bout(en) aan te draaien
- 3 de Groundplug® fundering is klaar voor gebruik

DE GROUNDPLUG® -TOEPASSINGEN

De Groundplug® producten zijn technisch ontworpen voor vele toepassingen. Er zijn funderingen en ankers voor diverse structuren. Alles wat in de grond bevestigd kan worden - ongeacht de grootte – kan gebruik maken van de Groundplug®.

De Groundplug® wordt ingezet voor :

- straatmeubilair • verkeersobjecten • bewegwijzering
- reclameborden • houtopbouw • vlaggenmasten • eenvoudige bouwconstructies • kortom: *the sky is the limit!*

Draagbalken of overige steunende delen kunnen op de fundamenteen gelegd worden. Met de Groundplug® staat alles voor kwaliteit.

Europese spreiding en training

De Groundplug®-producten kunnen in geheel Europa geleverd en geplaatst worden. Er zijn ook mogelijkheden voor opleiding en training tot het plaatsen van de Groundplug® producten.





De voordelen voor u nog een keer op een rij:

De funderingen en de opbouw zijn in één dag te installeren

Geen graafwerkzaamheden vooraf. Geen beton storten

Simpele, snelle plaatsing en aanpassingen. Kostenbesparend

Accurate installatie- tot op de vierkante centimeter precies

Geen beschadiging van de omliggende grond

Kan ook in bevroren grond gemonteerd worden

Gemakkelijk vervangen van geplaatste en/of beschadigde
objecten

GroundPlug Nederland BV

tel +31 20 613 34 54

fax +31 20 613 26 36

email info@groundplug.nl

GroundPlug Nederland BV

Portsmuiden 1c

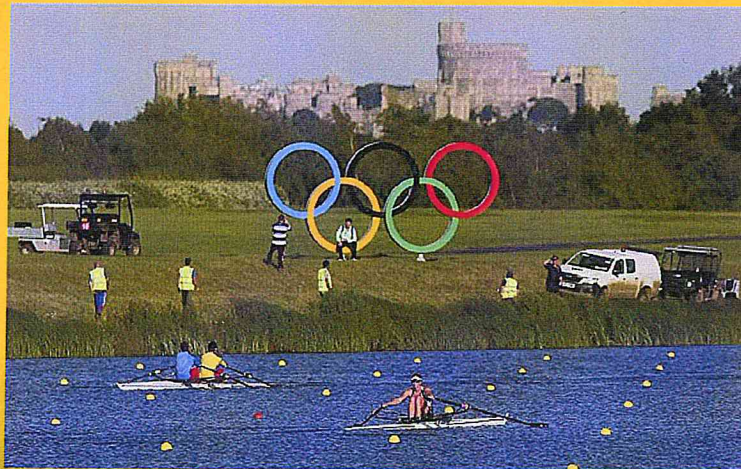
1046 AH Amsterdam

The Netherlands

www.groundplug.nl

GROUND PLUG®

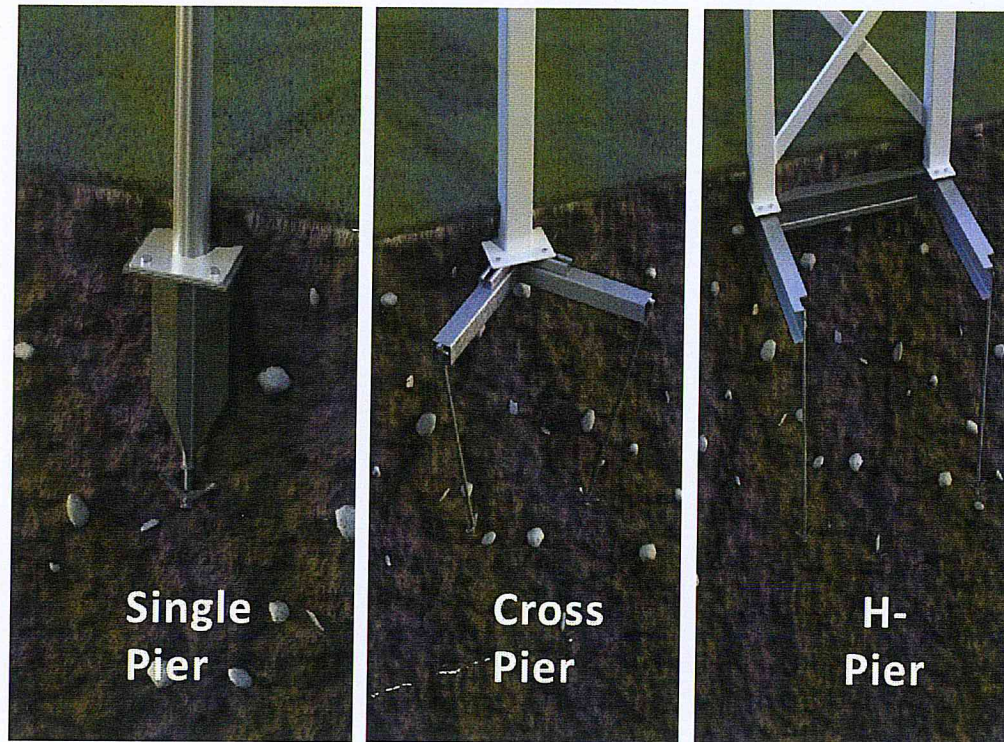
De perfecte oplossing voor funderingen



De range in produkten

- Single Pier
- Cross Pier
- H-Pier

... in verschillende
mogelijkheden



Cover a wide range of applications from trashcans to 30x40 meters signs

Van Calculatie tot plaatsing :

- Tekening van de fundatie
- Klic melding
- Kabel detecteren
- Plaatsing van de stalen fundatie
- Montage van het object op de stalen fundatie



All steel is designed per Eurocode 1- 7 :

- Eurocode - EN 1990 - Basis of structural design
- Eurocode 1 - EN 1991 - Action on structures
- Eurocode 3 - EN 1993 - Design of steel structures:
- EN 1993-1-1: Part 1-1: General rules and rules for steel buildings.
- EN 1993-1-5: Part 1-5: Plated structural elements.
- EN 1993-1-8: Part 1-8: Design of joints.



All US model designed according to **ASTM A123**

All soil calculations are performed **using proprietary software** developed by NIRAS.
Calculation results have been independently verified using LPILE, by Ensoft, Inc.

Unless specified all GroundPlug® products are **manufactured with S235 steel** and are **hot-dipped galvanized per ASTM A123 or Eurocode**.



25 years limited warranty

Is covered by patents and design protection

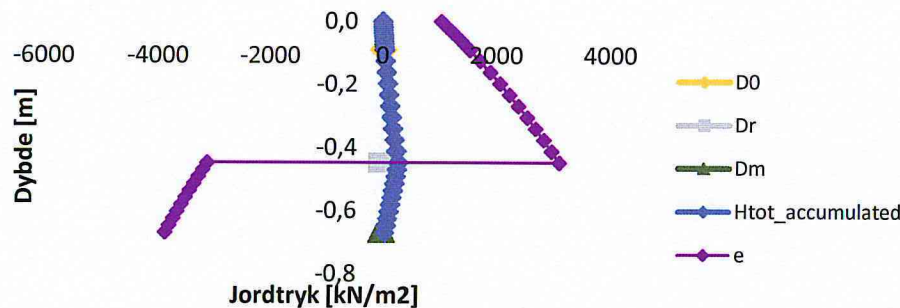
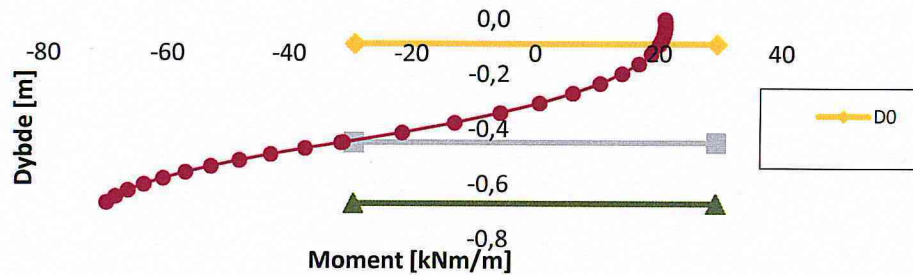


GroundPlug®

Calculation program



GROUND PLUG®
The perfect solution for foundations



Client Name:	
Project Location:	El Cajon, CA
Date:	26-05-2011

Sign Dimensions

Sign Face Height	20	ft
Sign Face Width	6	ft
Sign Elevation	10	ft
Number of Supports	2	
Distance between Supports	6	ft

Site Information

Wind Speed	90	mph
Exposure Category	C	
Soil Angle	37	°
Soil Cohesion	4000	psf

For CrossPier and H-Pier Only

SinglePier Width	12	in
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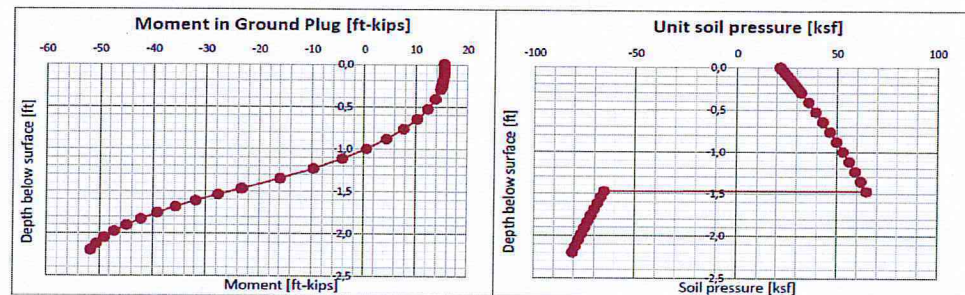
Soil Type	Clay
-----------	------

Required Length	34,2	inch
Maximum Moment	20,2	kip-ft

Extra Capacity

Single Pier	No SinglePier
CrossPier	CP48-100
H-Pier	HP72-100

N/A
8%
120%



All calculations performed in accordance with the requirements of ASCE 7-05, "Minimum Design Loads for Buildings and Other Structures". Steel design conforms to AISC 13th edition per Allowable Stress Design using $\Omega = 1.67$ and including the 4/3 allowable stress increase for wind loads.

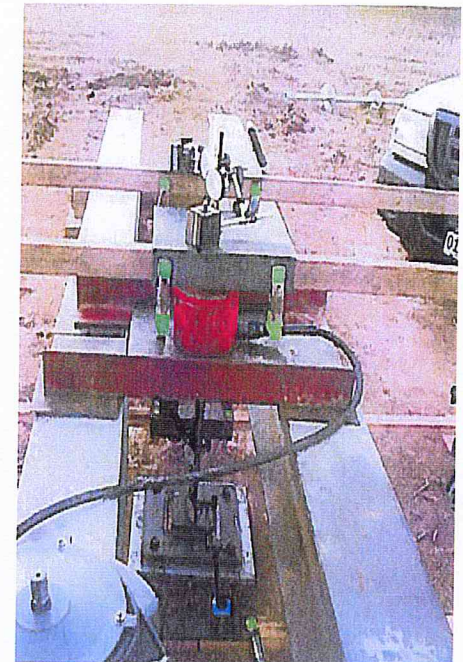
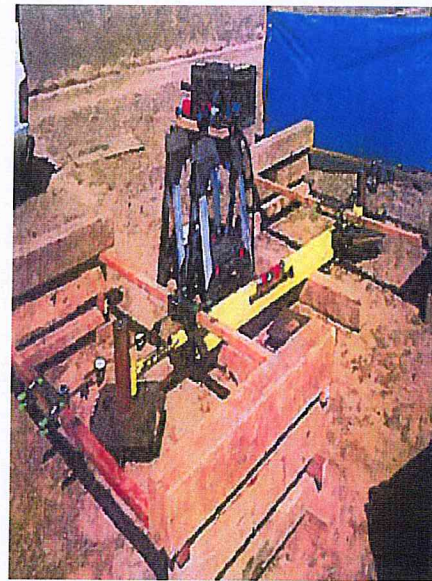
Soil calculations are based on GI-bulletin No.12: The Ultimate Resistance of Rigid Piles Against Transversal Forces, Brinch Hansen; Danish Geotechnical Institute, 1961.

Calculations performed assuming water table at terrain.

GroundPlug®

Tested

- To verify calculations according to ASTM A123 extensive physical testing has been made in 2011-12
- Test done by Applied Foundation, Testing, Georgia and CTL Thomson, Colorado.
- Test done at 2 locations and different soil types.
- Test to verify Compression Tension and lateral strength
- Test showed that calculation's are to the "conservative side".



GroundPlug®

Wij zijn er klaar voor

