



# THE ULTIMATE FLAGPOLE



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## THE ULTIMATE FLAGPOLE

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# THE ULTIMATE FLAGPOLE

Formenta was founded in 1972 by Olov and Inga Nyholm. Together they built the factory from the ground up in Värnamo, Småland, the heart of southern Sweden. From day one, they set out to make the finest flagpoles money could buy, made of fiberglass-reinforced polyester.

And they're proud to say their business model hasn't wavered. That relentless commitment to quality has resulted in Formenta being one of the world's leading manufacturers of fiberglass-reinforced flagpoles.

So it should come as no surprise that Formenta has supplied flagpoles to high-profile events like the Sydney Olympics, the Athletics World Championships in Edmonton, Special Olympics World Summer Games in Dublin, Commonwealth Games in Melbourne, Asian Games in Doha, the Vancouver Olympics and the Nordic World Ski Championships in Oslo. Not to mention, our flagpoles standing tall outside buildings the White House in Washington D.C. and the United Nations in Vienna.



Clients like these are high profile for a reason; they have high demands on quality and safety. Environmental responsibility is also an important factor. Which is why Formenta has always worked towards minimizing the effects on the environment while producing the strongest and safest flagpoles. This is shown through the ISO certifications for quality and environment, ISO 9001 and ISO 14001 where, on a daily basis, we endeavour to not only maintain but improve quality and environmental efficiency.

People around the world enjoy and appreciate this Swedish-made product of highest quality possible. We're confident you can not only rely on this product to meet your needs but we guarantee Formenta, as a company will do the utmost to satisfy those needs for years to come.

The Nyholm Family and staff





# WHY FORMENTA IS THE ENVIRONMENTALLY FRIENDLY CHOICE

When you choose a flagpole from us, you're not only choosing Formenta, you're choosing to be an advocate for the environment. From day one, we've decided to be in front when it comes to environmental consciousness. We hire trained environmental advisors and we are now introducing a flagpole with complete environmental specifications. When you buy a flagpole from us, you'll also be able to follow our work from an environmental standpoint.

We're proud to say we have the lowest emissions and the most efficient use of resources among all our competitors. But we still strive to improve year in and year out. Emissions of organic solvents (styrene and acetone) have decreased dramatically over the past few years, but we persist in working towards even better results. This is an ongoing commitment to invest in the most modern, up to date technology in order to result in the lowest emissions possible.

As a result, we've seen an overall improvement of 40% per produced unit over the past five years.

## HOW WE'VE MINIMIZED OUR IMPACT ON THE CLIMATE

Recently, we've managed to suspend all uses for fuel-oil at our plant in Värnamo.

We've also modified our process to allow us to generate 100% of our power from water. But we're not stopping there. We're expanding to make use of local wind power as well. Below, is a summary of how we've reduced emissions over the past 5 years, of raw material in a flagpole.

**CARBON DIOXIDE** was 3.8 kg, now is 0.083 kg per 1 kg of raw material, a reduction of 98%.

Carbon dioxide is the gas with most negative impact on our climate.

**NITRIC OXIDE** was 1.8 g, now is 1.1 g per 1 kg of raw material. An improvement of more than one third. Nitric oxide causes acidification and over-fertilization of ground and water systems. It also contributes to the formation of unhealthy ground-level ozone, which also causes decreased harvests.

**SULFUR OXIDE** was 100 mg, now is 4.8 mg per 1 kg of raw material. A 95% reduction. Sulfur oxide causes acidification of ground and water systems.

**DUST** was 7 g, now is 0.12 g per 1 kg of raw material. A 98% reduction. Dust consists of respirable particles which can have negative effects on people's health.

Summing up, all of the above means we've reduced most emissions by over 95% over the past five years. Our new methods and heightened technology has allowed us to be less dependent on fossil fuels and use carbon-free environmentally-sound electricity.

Our next goal: production without the support of nuclear power.

## OUR WASTE DISPOSAL PROGRESS

Improving our waste disposal systems have resulted in better manufacturing processes, work practices and methods. At the same time it's also given us:

- Reduced residues.
- Increased re-use.
- Increased recycling of materials.

## OTHER RESULTS OF OUR WORK

- All production is conducted without pollution to nearby waters.
- We've developed a comprehensive risk analysis to further improve the work environment and to increase safety in and around our Värnamo plant.
- At least once a year, we review all chemicals used in our production, evaluating the possibilities of switching to substances with less impact on health and environment.
- We invest in efficient transportation solutions and continually monitor its environmental impact.

## HOW WE'VE REDUCED OUR CONSUMPTION OF NATURAL RESOURCES

As a result of an energy efficiency program we've begun at our plant in Värnamo, we've instituted a number of actions that will mean reduced consumption of electricity, water and district heating. We've already managed to cut water consumption by 50% over the past few years.





# BUYING A PREMIUM FLAGPOLE

There are many factors that come into play when someone's considering a flagpole, which can make choosing one, a little difficult. Since 1972, Formenta has produced the strongest, highest quality flagpoles, money can buy. Each, handmade by the finest craftsmen with decades of experience in doing just that: making flagpoles.



Every detail in a Formenta flagpole is selected with care to create the longest-lasting product possible. Which is why we've had the honour of delivering flagpoles to royalties, presidents and some of the largest sporting events in the world. The strength and quality of our flagpoles means you don't have to worry, even in the most severe weather conditions.

## LENGTH

To determine what length flagpole you need, look at the height of the adjacent building. Be sure to take into consideration any level differences between the ground of the building and the location of the flagpole. Formenta recommends a flagpole which is 3-4 m or, one third taller than the building itself.

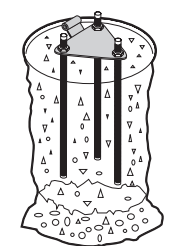
## FLAGPOLE MODEL

On pages 12-25, you'll find our various flagpole models and accessories. We have tilt base flagpoles, traditional brackets, rock-mounted and portable solutions amongst others. We have flagpoles with internal safety systems to prevent theft and vandalism. We even have systems that make it possible to show your flag even when there's no wind. We're confident you'll find an option that'll meet your needs.

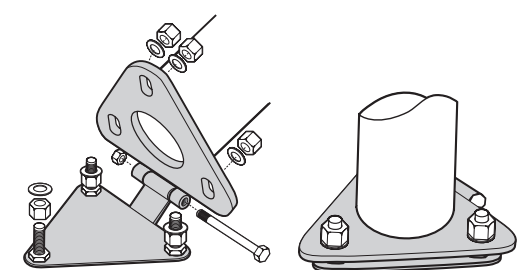
## INSTALLING YOUR FLAGPOLE

Dig a hole according to recommendations below. If the ground is soft, we recommend you dig wider. Fill the first 5 cm with crushed stone.

Flagpole (m)	Diam. (cm)	Depth (cm)
5-6	35	90
8	35	90
9	40	100
10	45	120
12	45	120
14	75	150
16	75	180
18	75	180



Note: These numbers are recommendations only. Always consider ground conditions.





# 12 ADVANTAGES WITH FORMENTA

## EXTREME STRENGTH

Formenta offers the strongest flagpoles on the market, and our flagpoles are continuously being tested by SP (Swedish Institute for Technical Research) for wind load. E.g. a 10 m Original is tested to 237.6 km/h.

## SWEDISH MADE

Formentas flagpoles are handcrafted at our Värnamo plant in southern Sweden. Here, our knowledgeable staff has been making poles for four decades.

## 10-YEAR-WARRANTY

Formenta has a full 10-year warranty on all flagpoles. This includes the fiberglass tube and the warm galvanized pole insert and base plate.

## WARM GALVANIZED BASE PLATE

With our maintenance-free base plate you can easily tilt the flagpole. Since all details are warm galvanized there is no need to worry about rust.

## REVOLVING FINIAL

Our finials revolve to prevent flags and pennants from getting stuck around the flagpole. The finials are available in brass, aluminium and plastic.

## CUSTOM-MADE HALYARD

Our halyards are custom-made to withstand extreme weather and temperatures. The halyard has an extremely high breaking-strength and wear-resistance.

## ENVIRONMENTAL & QUALITY CERTIFICATIONS

Formenta is environmentally certified with ISO 14001 and quality certified through ISO 9001. We continually strive to improve in these areas on a daily basis.

## BRILLIANT FINISH

A Formenta finish means having to wash it far less often than a less expensive one and that it stays looking beautiful, longer.

## ENVIRONMENTALLY SAFE

Our manufacturing procedures are in accordance with government regulations. We believe in total transparency and publish key figures with regards to our environmental record.

## CLEATS WITH STAINLESS SCREWS

Our cleats are made of polyamide which makes them better able to resist extreme temperatures. These cleats are very stiff and very impact resistant in coldest of climates.

## SUSTAINABLE FLAGS & PENNANTS

The basis for a strong flag or pennant is the fabric. Therefore, all Formenta flags and pennants are made from a 160 g/m<sup>2</sup> marine polyester.

## PERSONAL SERVICE & FAST DELIVERIES

We do the utmost to ensure a satisfied customer. This means everything from the first contact to the final delivery of the product.



EXTREME STRENGTH



SWEDISH MADE



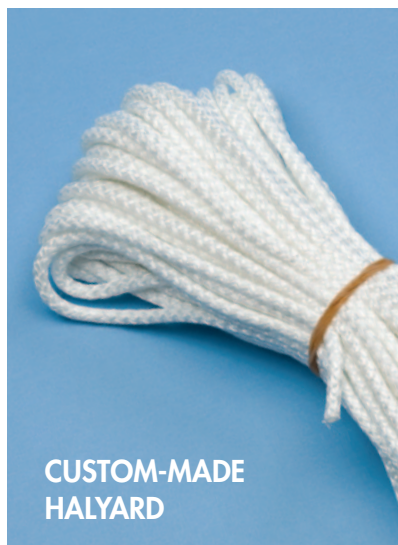
10-YEAR-WARRANTY



WARM GALVANIZED  
BASE PLATE



REVOLVING FINIAL



CUSTOM-MADE  
HALYARD



ENVIRONMENTAL &  
QUALITY CERTIFICATIONS



BRILLIANT FINISH



ENVIRONMENTALLY  
SAFE



CLEATS WITH  
STAINLESS SCREWS



SUSTAINABLE  
FLAGS & PENNANTS



PERSONAL SERVICE &  
FAST DELIVERIES



# FORMENTA ORIGINAL



**Formenta Original is the best seller** in a very wide product line of quality flagpoles. They're made from weather-resistant, fiberglass-reinforced polyester, a maintenance-free material which combines unparalleled strength, low weight and a brilliant finish. Formenta Original is the perfect flagpole for residential customers who want to raise their flag with pride, but can also be used for commercial purposes.

## FORMENTA ORIGINAL COMES COMPLETE WITH:

- Warm galvanized pole shaft insert and hinge base
- Revolving finial
- Cleat with screws
- Halyard
- Plastic clips (for quick attachment of flag or pennant)
- Full installation instructions





# FORMENTA TRADITION



**Formenta Tradition is a high-quality flagpole** that uses existing beams for a vintage look. Not to mention the convenience of using old beams. Each Formenta Tradition has to be individually adapted for the shaft it's inserted into. The bottom diameter of the flagpoles varies depending on the length. A 5-9 m flagpole has a bottom diameter of 115 mm, 10-12 m 135 mm and 14-18 m 175 mm. If none of these measurements fit your existing shaft we can adapt the flagpole for a made-to-measure fit.

In order to make the flagpole fit your existing shaft precisely, we require five specific measurements: Height of beams or rock, distance between beams, distance from ground to first hole, distance between first and second hole (centre to centre) and hole diameter.

Go to [www.formenta.se](http://www.formenta.se) and download a form for this.

## FORMENTA TRADITION COMES COMPLETE WITH:

- 1500 mm internal aluminium reinforced tubing
- Revolving finial
- Cleat with screws
- Halyard
- Plastic clips (for quick attachment of flag or pennant)
- Full installation instructions





# FORMENTA ISS



**Formenta ISS (Internal Safety System) is a flagpole** with an internally mounted halyard. This model, like all our flagpoles, are made from age-resistant fiberglass-reinforced polyester, a maintenance-free material that combines guaranteed strength, low weight and a brilliant finish. Formenta ISS is the perfect solution for commercial use. The internal safety system with a lockable door protects your flag from theft and vandalism. Formenta ISS also eliminates all sound from the halyard hitting the flagpole.

## FORMENTA ISS COMES COMPLETE WITH:

- Warm galvanized pole shaft insert and hinge base
- Revolving finial
- Internally mounted halyard
- Counterweight
- Keys
- Plastic clips (for quick attachment of flag or pennant)
- Stopp ball
- Full installation instructions





# FORMENTA ISS EXCLUSIVE



**Formenta ISS Exclusive is our highest-end flagpole** and called “exclusive” for a reason. It has an internally mounted crank system of stainless steel with an extra strong halyard. Like all our flagpoles, the Formenta ISS Exclusive is made from age-resistant fiberglass reinforced polyester, a maintenance-free material which combines guaranteed strength, low weight and a brilliant finish. With Formenta ISS Exclusive, the flag is easily hoisted. This flagpole is mostly used by companies and organizations who want to protect their flags from theft and vandalism. Recently we’ve seen it used by commercial customers who want something special. Formenta ISS Exclusive also eliminates all sound from the halyard hitting the flagpole. A popular option for this flagpole is the locking bolt with keys.

## FORMENTA ISS EXCLUSIVE COMES COMPLETE WITH:

- Warm galvanized pole shaft insert and hinge base
- Revolving finial
- Internally mounted crank system of stainless steel
- Extra strong internal halyard
- Counterweight
- Crank
- Plastic clips (for quick attachment of flag or pennant)
- Stopp ball
- Full installation instructions
- Locking bolt with keys (optional)





# FORMENTA SPECIAL



**FORMENTA'S FLAGPOLES CAN BE INSTALLED ON WALLS, ROOFS, CONTAINERS, ALMOST ANYTHING YOU CAN IMAGINE.**

## PORTABLE CONCRETE BASES

Our portable concrete bases have become quite popular over the years. It's a perfect solution for temporary installation of flagpoles. It's perfect for sporting events, construction sites etc. The bases are coated with a white shell of fiberglass for easy cleaning. Our bases are available in 2 sizes, small (575 kg) for 5-9 m and large (865 kg) for 10-12 m flagpoles.

## FORMENTA COLOUR-LINE

Formenta Colour-Line is a unique series of coloured flagpoles which makes you stand out. With it, you can match your building's architecture or your brand colour. Pick any colour from the RAL-scale or select from metallic in gold, silver or bronze. Formenta Colour-Line comes in over 200 colours. All of Formenta's flagpole models can be ordered as Colour-Line.

## WALL MOUNT

Formenta's wall-mounted flagpoles come in 3, 4 and 5 m as standard lengths along with the wall mount bracket (45, 60 or 75 degree angle), revolving finial, halyard, cleat and plastic clips. Maximum lengths for flagpoles installed vertically on a wall is 12 m. These flagpoles come with a powder-coated (white) stainless steel bracket.





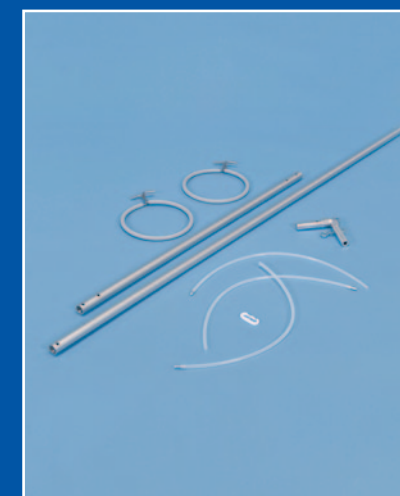
# FORMENTA ROTO-TOP

**Formenta Roto-Top is a new best-seller** and suited primarily for commercial use where flag exposure is crucial. The revolving 'truck' has a 1540 mm long aluminium arm which supports the flag. This innovation makes it possible for the flag to be fully exposed even when there's no wind at all. It's important to know that flags for this system should be tall vertical with a sewn sleeve to fit the aluminum arm. Maximum width for the flag is 1500 mm. Formenta Roto-Top can be mounted on existing flagpoles with a top diameter of 65 mm.



# FORMENTA WINDTRACKER

**Windtracker is Formenta's trademarked design** which allows the flag to elegantly follow the wind. Flag change outs are easily done without having to tilt the flagpole. The Formenta Windtracker comes with an aluminium arm at a maximum length of 1540 mm. The difference between Windtracker and Roto-Top is that the Windtracker can be lowered or raised with the halyard. The purpose of both systems is to give maximum exposure to the flag even when there is no wind.





# FORMENTA ACCESSORIES

If it involves flying a flag, Formenta has the widest assortment of accessories to help you do that. Halyards, plastic clips and cleats are readily available if needed. Formenta also offers replacement parts for the more advanced Formenta ISS systems such as cranks, keys, counter-weights or completely new systems.

**FINIALS**  
Formenta’s finials are available in gold (brass), silver (aluminium) or plastic. And the plastic finials come in a variety of shapes and colours.

FLAGPOLE	FINIAL / CAP
3 - 12 m	135 / 65 mm
14 m	150 / 65 mm
16 - 18 m	165 / 65 mm

Formenta also offers plastic caps of 50 and 75 mm as an option to the standard of 65 mm.



# FLAGS & PENNANTS

Formenta offers a wide range of flags from various countries around the world, made from 160 g marine polyester, a very durable material. In order to make the longest-lasting flag possible, the selection of textile and method of sewing is crucial. The sort of craftsmanship Formenta is renowned for, results in strong, beautiful flags that live on for generations.

By the way, when used for the first time, a flag or pennant should be hoisted in calm weather conditions to allow the stitches to stabilize. A wet flag has to be allowed to dry before being folded. A faded or worn-out flag cannot be used for any purpose and should be burned.

## RECOMMENDED SIZES FOR FLAGS & PENNANTS

Flagpole (m)	6	8	9	10	12	14	16	18
Flag (cm)	150	200	240	240	300	350	400	450
Pennant (cm)	200	250	300	300	400	500	500	600





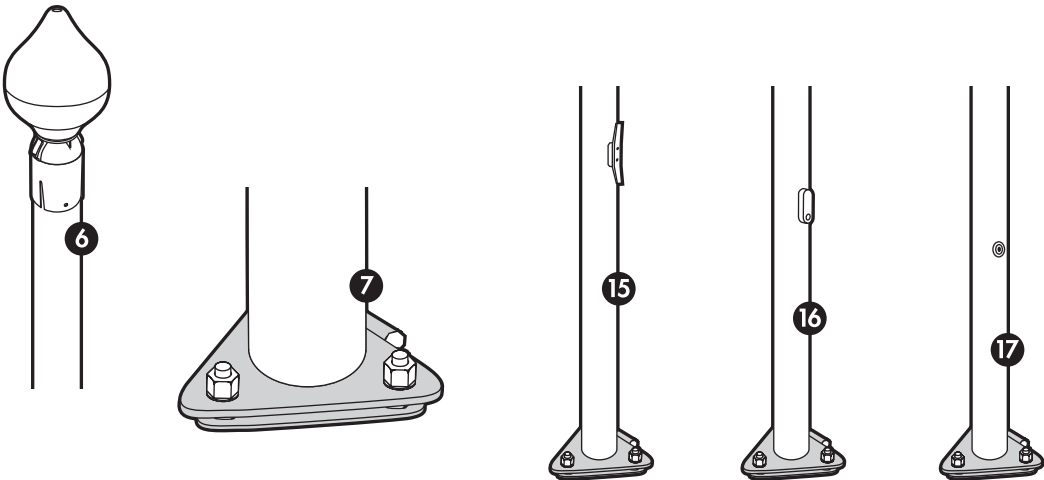
# TECHNICAL SPECIFICATIONS



FORMENTA FIBERGLASS FLAGPOLE		Unit	6m	8m	9m	10m
1	Gross weight Formenta Original	kg	25	28	30	41
2	Gross weight Formenta Tradition	kg	13	16	17	26
3	Gross weight Formenta ISS	kg	26	29	31	42
4	Gross weight Formenta ISS Exclusive	kg	27	30	32	43
5	Gross weight fiberglass shaft	kg	9	12	13	21
6	Top diameter	mm	65	65	65	65
7	Bottom diameter	mm	115	115	115	135
8	Fiberglass thickness +/- 0,5mm	mm	3,5	3,5	3,5	4
9	Steel shaft thickness (flagpole bracket)	mm	4	4	4	5
10	Steel shaft length (flagpole bracket)	mm	600	600	600	700
11	Steel shaft diameter (flagpole bracket)	mm	102	102	102	121
12	Tradition aluminium shaft thickness	mm	2	2	2	2,5
13	Tradition aluminium shaft length	mm	1500	1500	1500	1500
14	Tradition aluminium shaft diameter	mm	100	100	100	120
15	Height from base to cleat	mm	1400	1400	1400	1400
16	Height from base to ISS door	mm	1100	1100	1100	1100
17	Height from base to ISS Exklusiv crank system	mm	900	900	900	900
18	Warm galvanized base plate CC-measurement	mm	166	166	166	166
19	Warm galvanized thread rods diameter	mm	20	20	20	20
20	Warm galvanized thread rods length	mm	560	560	560	560
21	Hole diameter	mm	350	350	400	450
22	Hole depth	mm	900	900	1000	1200
23	Hole diameter for rock mounting	mm	30	30	30	30
24	Hole depth for rock mounting	mm	300	300	400	400
25	Carbon dioxide CO <sub>2</sub> emissions	kg	1,05	1,37	1,56	2,28
26	Nitric oxide NO <sub>x</sub> emissions	g	14	18	21	30
27	Sulfur dioxide SO <sub>2</sub> emissions	g	0,06	0,08	0,09	0,13
28	Styrene emisisions	g	157	206	234	342
29	Acetone emissions	g	185	242	276	402
30	Windtest by SP	m/s	85	60	51	66

## ACESSORIES

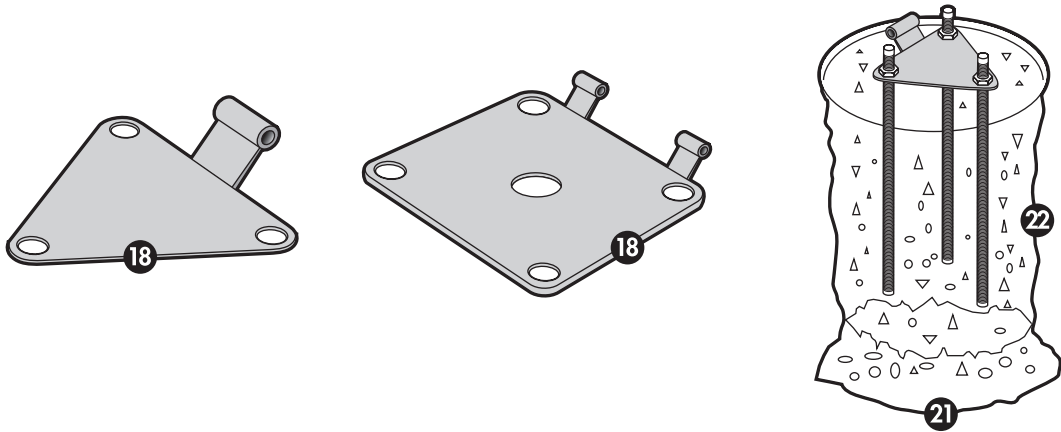
31	Halyard	m	10	14	16	18
32	Finial diameter	mm	135	135	135	135
33	Revolving truck diameter	mm	65	65	65	65
34	Counterweight		Lightweight	Lightweight	Lightweight	Middleweight
35	Recommended flag size	cm	150	200	240	240
36	Recommended pennant size	cm	200	250	300	300



FORMENTA FIBERGLASS FLAGPOLE		Enhet	12m	14m	16m	18m
1	Gross weight Formenta Original	kg	44	98	105	115
2	Gross weight Formenta Tradition	kg	30	53	64	73
3	Gross weight Formenta ISS	kg	46	-	-	-
4	Gross weight Formenta ISS Exclusive	kg	47	101	109	118
5	Gross weight fiberglass shaft	kg	25	47	57	66
6	Top diameter	mm	65	65	65	65
7	Bottom diameter	mm	135	175	175	175
8	Fiberglass thickness +/- 0,5mm	mm	4	5	5	5
9	Steel shaft thickness (flagpole bracket)	mm	5	5	5	5
10	Steel shaft length (flagpole bracket)	mm	700	1000	1000	1000
11	Steel shaft diameter (flagpole bracket)	mm	121	160	160	160
12	Tradition aluminium shaft thickness	mm	2,5	3,5	3,5	3,5
13	Tradition aluminium shaft length	mm	1500	1500	1500	1500
14	Tradition aluminium shaft diameter	mm	120	162	162	162
15	Height from base to cleat	mm	1400	1400	1400	1400
16	Height from base to ISS door	mm	1100	1100	1100	1100
17	Height from base to ISS Exklusiv crank system	mm	900	900	900	900
18	Warm galvanized base plate CC-measurement	mm	166	228	228	228
19	Warm galvanized thread rods diameter	mm	20	20	20	20
20	Warm galvanized thread rods length	mm	560	1000	1000	1000
21	Hole diameter	mm	450	750	750	750
22	Hole depth	mm	1200	1500	1800	1800
23	Hole diameter for rock mounting	mm	30	30	30	30
24	Hole depth for rock mounting	mm	400	500	500	500
25	Carbon dioxide CO <sub>2</sub> emissions	kg	2,76	5,51	5,81	6,54
26	Nitric oxide NO <sub>x</sub> emissions	g	37	73	77	87
27	Sulfur dioxide SO <sub>2</sub> emissions	g	0,16	0,32	0,34	0,38
28	Styrene emisisions	g	412	825	870	979
29	Acetone emissions	g	485	971	1023	1152
30	Windtest by SP	m/s	52	58	54	50

## ACCESSORIES

31	Halyard	m	22	26	30	34
32	Finial diameter	mm	135	150	165	165
33	Revolving truck diameter	mm	65	65	65	65
34	Counterweight		Middleweight	Heavyweight	Heavyweight	Heavyweight
35	Recommended flag size	cm	300	350	400	450
36	Recommended pennant size	cm	400	500	500	600





Scan these QR-codes to use the Formenta-App



Available on the  
Android Market



Available on the  
AppStore



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