



QUOTATION / INFORMATION

Magnetic Handrailing



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1.0 General information McNetiq BV

Statuary:

Company name: McNetiq BV
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About McNetiq:

We develop and deliver magnetic applications, where magnetic forces can be instantly tested using our patented Controllock® technology. Following the proven benefits of our scaffolding anchors, we focus on specific markets where potential users are indicating to be seeing a clear need. We connect internationally directly with users as well as with all distributors, agents, and distributors that passionately share our vision.

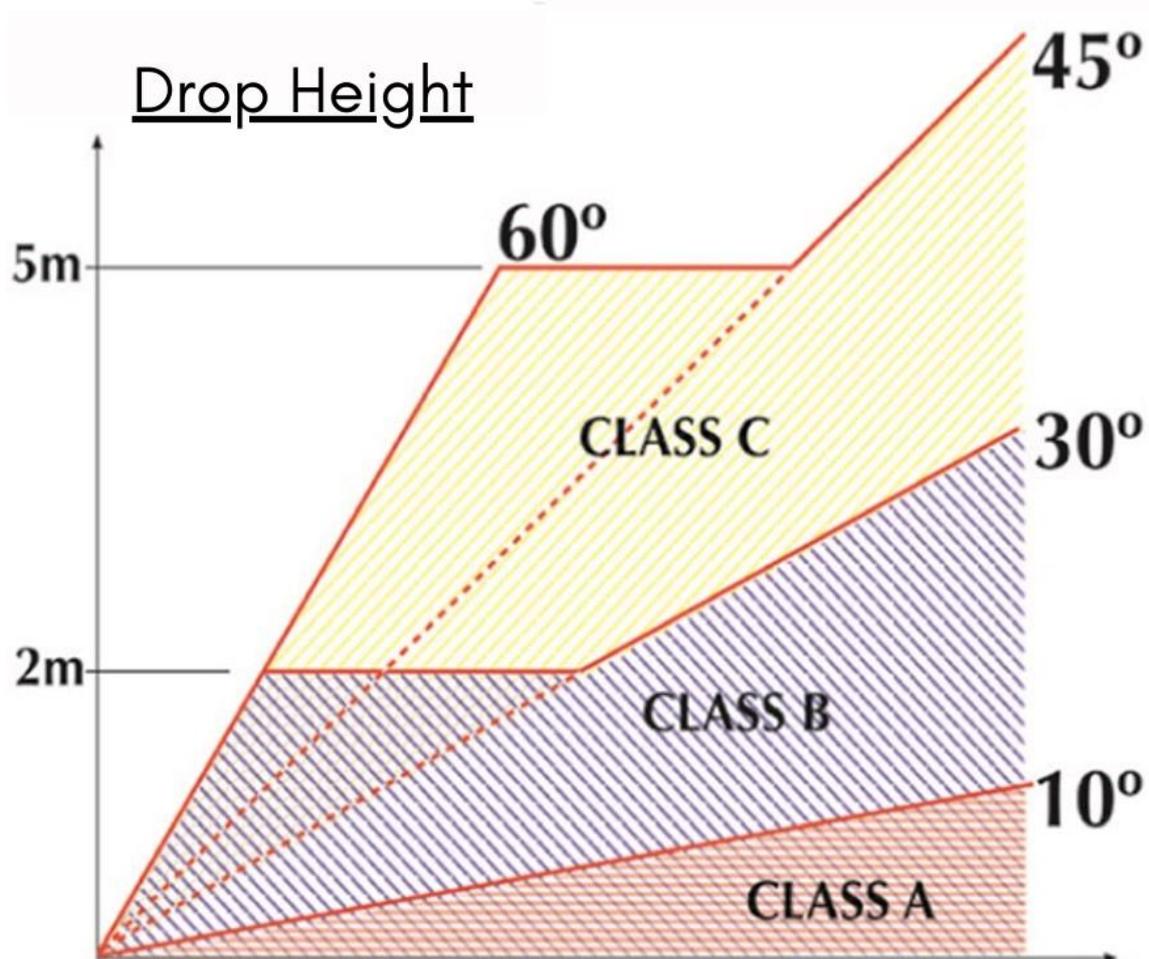
2.0 Description, design and figures of the products

For the handrailing we have selected the light weight steel mesh barrier from Honeywell Combisafe. Enclosed is a catalogue of the product. Combisafe is a world leader in this business and well known by a large number of users.

The design code is EN 13374; We have selected Class A (see figure).



Incline of the Roof



The steel mass barrier (see figure) is a Class A barrier SKU number 3245.

Class A



ORDERING INFORMATION			
SKU No.	Name	SKU No.	Name
3240	Barrier Class ABC 2.6m	3249	Barrier Class A 0.5m
3241	Barrier Class ABC 1.5m	3260	Make-Up Barrier 2.6m
3242	Barrier Class ABC 1.8m	3261	Make-Up Barrier 1.5m
3245	Barrier Class A 2.6m	3263	Extended Make-Up Barrier 2.6m
3246	Barrier Class A 1.5m	3264	Extended Make-Up Barrier 1.5m
3247	Barrier Class A 2.0m	3266	Debris Barrier 2.6m
3248	Barrier Class A 0.9m	3267	Debris Barrier 1.5m

The barrier is mounted by a pole and a clamped holder (see figure). This pole is mounted on a bracket in which the magnet is mounted that connects the post to the yetty. This bracket is specially designed for this project and will be launched as a new product as soon as the design of this bracket is finished.



2.1 The magnet:



RMB, Rubber Magnet Blok

Dimensions 201x61x 28 mm.

Magnetic force : circa 400 kgf on untreated steel

Tested pullingforce: 350 kgf op 0,2 mm paintlayer and 12 mm steel

Tested shearforce : 250 kg op 0,2 mm paintlayer and 12 mm steel

Magnetmaterial : Neodymium,

Studbolt : M10x26

Material studbolt : Stainless Steel WS. 1.4404

Rubber coating : EPDM

2.2 The bracket

The Bracket is specially designed to connect the post and the magnet. We have included a number of 3D screen shots of the bracket. The bracket is designed to withhold the design load with a safety factor of 2



2.3 The Setter apparatus:

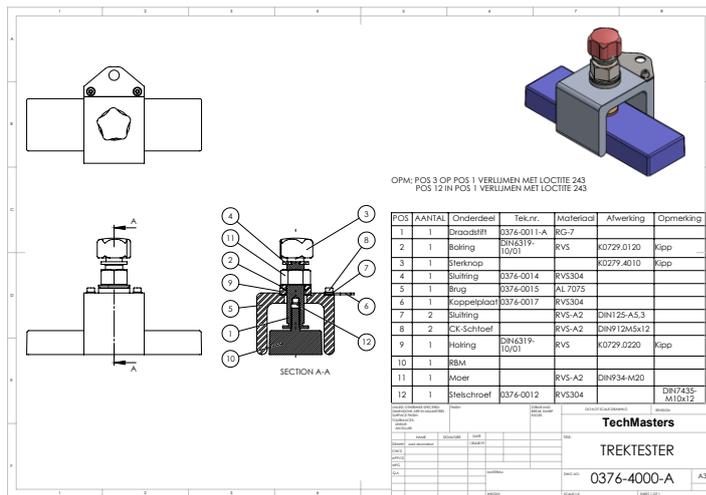
The Setter is designed to safely install the magnets. The magnets are permanent magnets with a holding force of max 400 kgf. You cannot install the magnet safely without this apparatus. The design is a (patent pending) ingenious tool that can install the magnet within 1 minute without any safety risk.



2.4 RBM testing tool



The testing tool can check the holding force of the magnet.

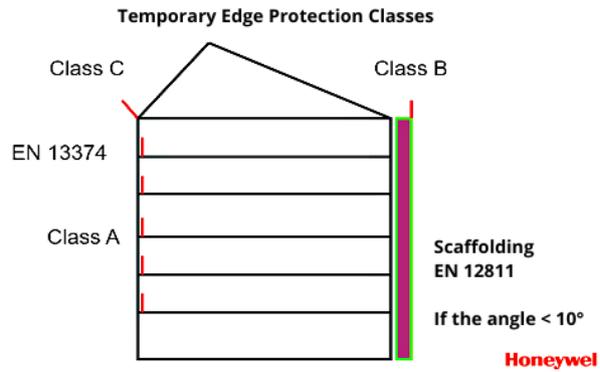
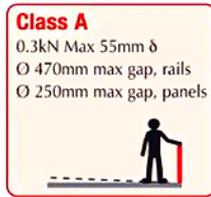


Assembly RBM tester



2.5 Calculation Magnet holding force vs Design Load Class A, EN 13374

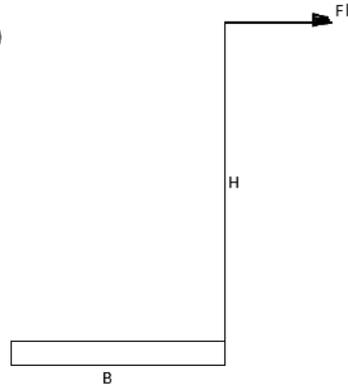
EN 13374



Horizontal load:	300 N	FI
Height	1000 mm.	H
Magnet capacity	4000 N (max, airgap 0 micron)	
Coating jetty	70 micron	
Anticipated magnet capacity:	2000 N	
Distance magnet to cl post	300 mm	B
Force required magnet:		
M design load = $FI * H / B$	$300 * 1000 / 300 =$	1000 N
Available Magnet capacity		2000 N

Conclusions:

The magnet has sufficient capacity to have a safety factor of 2
 The installed magnets needs to be tested at 2000 N



In this brochure, we used the products of Combisafe to make the whole product visible. McNetiq provides the magnets and the tools. Together we can make this compatible on your own rail materials.

For prices and terms and conditions of products of Combisafe / Honeywell you can check:

<https://www.combisafe.com/EN/products/edge-protection/multi-mesh-barrier-system/multi-mesh-barrier-maxi>

Terms and Conditions McNetiq

Prices are ex Works Rotterdam

Prices are excl. VAT, custom costs etc.

Prices are excluding the mounting of the handrailing at the site

Rental rates are equal to Nett price divided by 308,00 this means that after 44 weeks the equipment is fully paid.

Payment conditions:

50% at order, to be paid within 14 days after invoice

40% prior to shipment, to be paid within 14 days after invoice. Materials will not be shipped without payment

10% at arrival in the port of destiny, to be paid within 14 days after invoice.

Delivery schedule

Desing and testing mounting bracket: 4 weeks

Delevery time steel barriers, etc. 4 weeks

Delevery time magnets: 8 weeks

The mounting tools require special training in order to safely install the magnets. Included is a 8 hours training at our office in Rotterdam for a group of 4 people. If you want we can do this training at your site. In that case we require you to reimburse the cost of travel and housing based on the actual out of pocket costs.