

PRODUCT BULLETIN

SUPPORT MAGNET PORTFOLIO

PRODUCT INFORMATION

Multipurpose neodymium (N50) support magnets for temporary or permanent support. Anti-vibration threads and a 316L stop ring to secure a tight connection with high makeup torque, the connection will have a steel to steel contact and do not need to be re-tightened during its lifetime. The magnets can be installed by using the patented installation box for easy installation and improved safety. A 316L cover can be used to protect the EPDM rubber from damages.

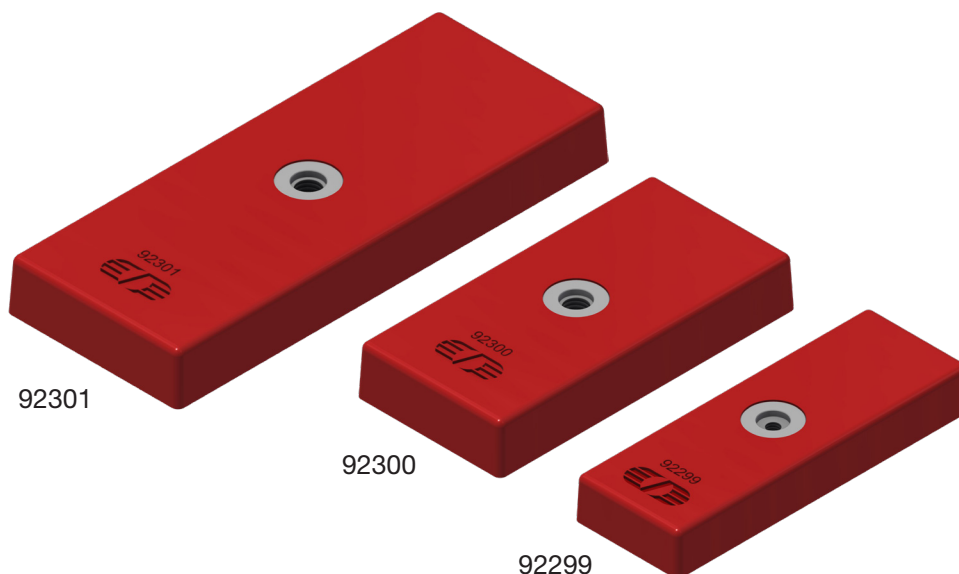
PRODUCT FUNCTIONALITY AND DETAIL

- Three different sizes: 90 kg, 180 kg and 360 kg
- For permanent or temporary support
- EPDM rubber coating which protects painted surfaces
- 316L cover available to protect EPDM Rubber
- 316L stop ring for steel to steel contact
- Corrosive Protection Paste (CPP) on threads
- A4 M10 stud can be used to convert the magnet from female to male connection.
- Operating temperature -40 to +80°C
- For maximal load capacity install the magnet vertically.

PRODUCT ADVANTAGES

- Anti-vibration threads
- Magnets tested according to ISO 9227 NSS for 2160 hours (Standard only require 1440 hours)
- Magnetic force tested performed and witnessed by third party.
- Easy and safe to install using patented installation box for improved QHSE and to prevent finger injuries.

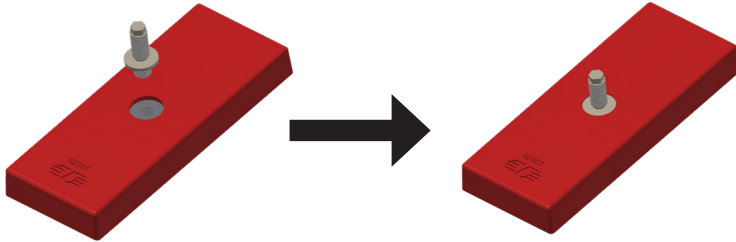
Article No.	Description	Max pull force*	Tightening torque (Nm)	Weight (kg)
92299	Magnet MA-127-45-M6 MA/EPDM	90kg	8	0.44
92300	Magnet MA-125-61-M10 MA/EPDM	180kg	15	0.76
92301	Magnet MA-175-70-M10 MA/EPDM	360kg	30	1.3



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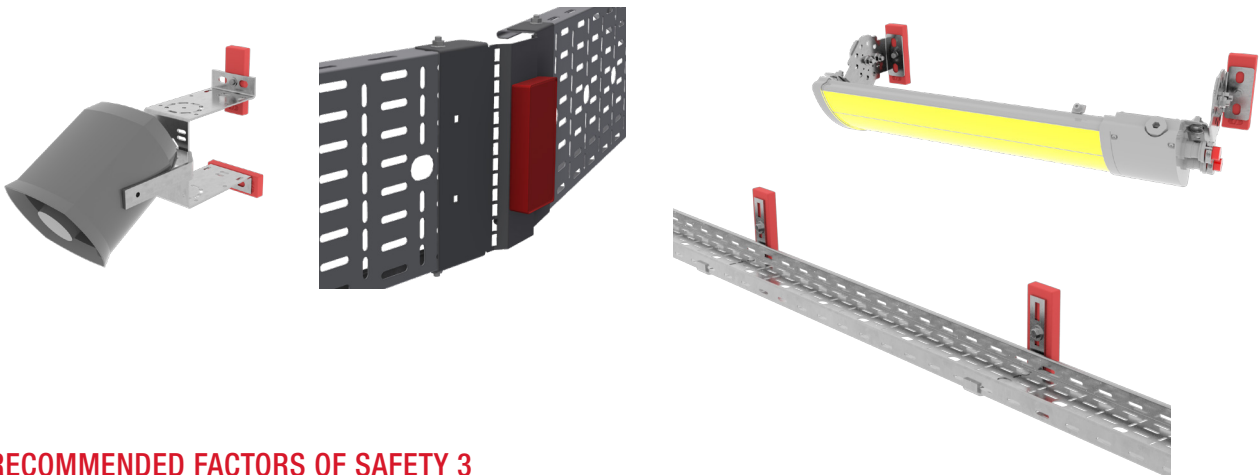
- M10 Stud bolt for magnet can be used to convert the magnet from female to male connection.



- Easy and safe installation using patented installation tool for improved QHSE and to prevent finger injuries.



- Multipurpose use:



RECOMMENDED FACTORS OF SAFETY 3

This safety factor covers:

- Plate thickness
- Paint thickness up to 750µm
- Direction of force
- Concave/convex surface down to 5.7 meter in diameter
- Quality of surface

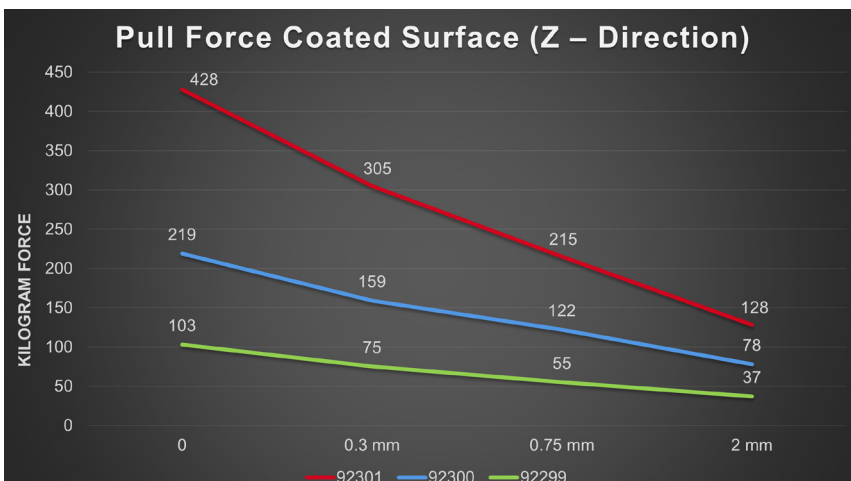
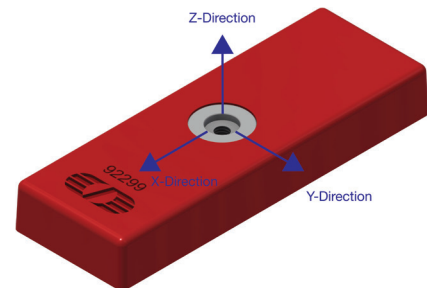
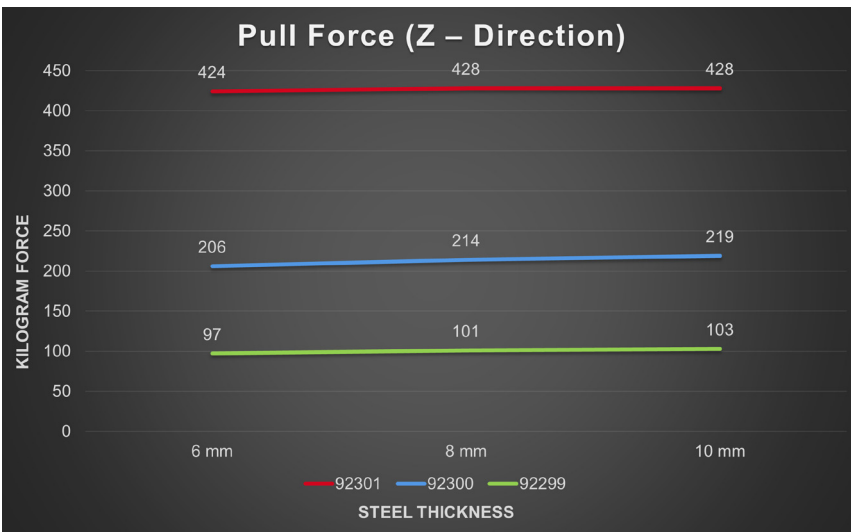
PRODUCT BULLETIN

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TESTING

Tests performed	Comments	92299	92300	92300
Pull Force (Z - Direction)		✓	✓	✓
Pull Force (Z - Direction)	Coating (300, 750, 2000 µm)	✓	✓	✓
Shear Force (X - Direction)		✓	✓	✓
Shear Force (X - Direction)	Coating (300, 750, 2000 µm)	✓	✓	✓
Torque Test (X and Y - Direction)		✓	✓	✓
Torque Test (X and Y - Direction)	Coating (300, 750 µm) 1 meter arm	✓	✓	✓
Concave surface (Z and X - Direction)	Concave diameter 5.7 meter	✓	✓	✓
Convex surface (Z and X - Direction)	Convex diameter 5.7 meter	✓	✓	✓
Salt Spray Test (ISO 9227 NSS)	2160 hours	✓	✓	✓
EPDM Rubber Test		✓	✓	✓

AVERAGE TEST RESULTS



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The information below is available in a safety datasheet which must be sent together with the order confirmation to the customer by the sales person.

PLEASE NOTE THE FOLLOWING GUIDELINES AND THE WARNINGS BEFORE USING THESE MAGNETS.

Øglænd System AS accept no responsibility for damage that might be caused by magnets, which can include but are not restricted to; injury, property damage and general magnetic damage. Under no circumstances shall Øglænd System AS, it's directors, officers, employees or agents be liable for any special, punitive, incidental, indirect or consequential costs or damages of any kind, or any damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, from the use of, or reliance on, magnet support products.



The specified forces are discretionary. Øglænd System AS are not responsible for inaccuracies in the indicated forces of the magnet.



Neodymium and Ferrit magnets are very strong magnets. Care must be taken in the handling to avoid injury, property damage and general magnet damage. These magnets are intended for industrial and commercial use for professional fitting by competent adults.



The strong magnetic fields of neodymium magnets can damage mechanical and electrical items. Some examples, but not limited to, are televisions, credit cards, computer monitors, bank cards, mechanical watches, digital storage, other data media, magnetic tapes, speakers, hearing aids etc.



Neodymium magnets are brittle and can be broken or shatter in a collision. One should always wear gloves and goggles when handling magnets.



Dust particles from shattered neodymium magnets are highly flammable. Magnets can emit sparks and should be handled with care in areas where there is risk of explosion. In case of fire, only use sand or powder fire extinguisher. Neodymium magnets should never be burned, as this causes toxic fumes.



Normal neodymium magnets will lose their magnetic properties if heated above 80 degrees C or when subjected to ionizing radiation.



Pacemakers may be damaged or switched to "TestMode" under the influence of a strong magnetic force. If the pacemaker is in use – a safety distance of minimum 40 cm (16 in.) must be maintained.



Allergic reactions may occur in people with known allergies to ceramic and / or metallic substances.



Rare earths magnetic should be stored in a dry environment away from any potential contaminants such as oil, grease or metal particles which will effect the performance of the magnetic connection.



For transportation by air freight, the rules for Magnetic Fields acc. IATA's rules (International Air Transport Association - Dangerous Goods Regulations). Goods sent by airfreight must be packed in a suitable manner (by means of the shield) so that the magnetic fields do not affect the air transport. The product is thus considered as not dangerous cargo air transport.

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