

**BFR Basket Trays in
a food industry plant**

**Project Case
Nestlé Plant**



Site: Purina Pet Food Complex
City: BÜK
Country: Hungary (Europe)
Product: Basorfil BFR
Material: Stainless Steel
Owner: Nestlé Group
Years: 2014-2015



Technical Addendum

Safety in the food industry is essential. The electrical installation and the production lines must be always clean. Any risk of contamination, can affect to the consumer health and the corporate image.

NORM: EN 1672-2:2005+A1:2009

This addendum specifies common hygiene requirements for machinery and installation used in preparing and processing food for human and, where relevant, animal consumption to eliminate the risk of contagion, infection, illness or injury arising from this food.

RAW MATERIALS AT INSTALLED PRODUCTS

The surfaces of the materials shall be durable, cleanable and where required capable of being disinfected, without breaks, resistant to cracking, chipping, flaking and abrasion, preventing the penetration of unwanted matter under intended use. In addition to this, the materials shall be:

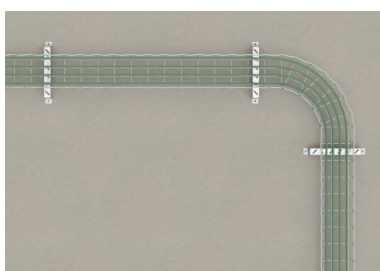
- Corrosion resistant
- Non toxic
- Non absorbent
- Non transfer undesirable odours, colours or taint

In the non-food areas, the materials shall be made of corrosion resistant material or material that is treated (coated or painted) to be corrosion resistant, these surfaces shall be cleanable.

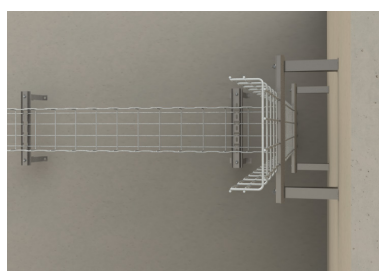
The Installation

A hygienic food factory installation must be designed to keep the number of microbes low. Pests, such as insects, rodents and other animals, must be kept at bay and those present for whatever reason, should not find places where they could breed:

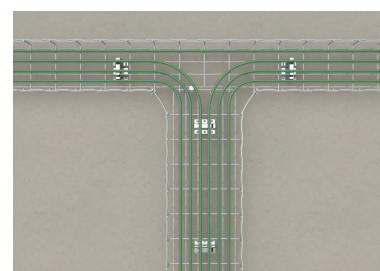
- There should be no horizontal surfaces that cannot easily be inspected and cleaned
- There should be no narrow spaces between equipment and walls, floors and ceilings.
- The cables must have an efficient positioning for a correct cleaning



Vertical installation



Enough space for a correct cleaning



Efficient positioning of the cables

The Cleaning

Surfaces shall have a finish so that no particle of product becomes trapped in small crevices, thus becoming difficult to dislodge and so introduce a contamination hazard.

Surfaces shall be cleanable and where required capable of being disinfected. For this purpose they shall be smooth, continuous or be sealed.

Hygiene risk



Acceptable / Aceptable.



1. The company: Nestlé Purina Petcare



Nestlé Purina Petcare is a St. Louis, Missouri-based subsidiary of Nestlé. It produces and markets pet food, treats and litter. Some of its pet food brands include Purina Pro Plan, Purina Dog Chow, Friskies, Beneful and Purina ONE.

The company was formed in 2001 by combining Ralston Purina, which was acquired by Nestlé for \$10.3 billion, with Nestlé's Friskies Petcare Company. As of 2012, it is the second-largest pet food company globally and the largest in the United States.

The company has been recognized for sustainability practices in its manufacturing and sponsors many pet-related charities and events. It markets its pet food through crowd-sourced competitions, sponsorship, mobile apps, and television advertising.

2. The site: Purina Pet Food Complex BÜK

Nestlé Hungária Kft., the largest Swiss investor and employer in Hungary has further strengthened its market position with its latest investment. The fully automated new manufacturing unit employs a globally unique technology to process high-quality local agricultural produce into 1 million products every day. More than 50 truckloads of pet food a day leave the factory, destined for 42 countries around the world. The new 5000 square-metre manufacturing hall includes two new filling and packaging lines.

The highly of the commitment of Nestlé Hungária Kft. to Hungary is reflected in the development projects completed and also in the appreciation by the company's management of the skills. This new manufacturing unit is a step forward in more than one respects because it strengthens the economic ties between Switzerland and Hungary, brings stability and new opportunities to the almost 2000 domestic suppliers of the company, and also plays a significant role in the development.

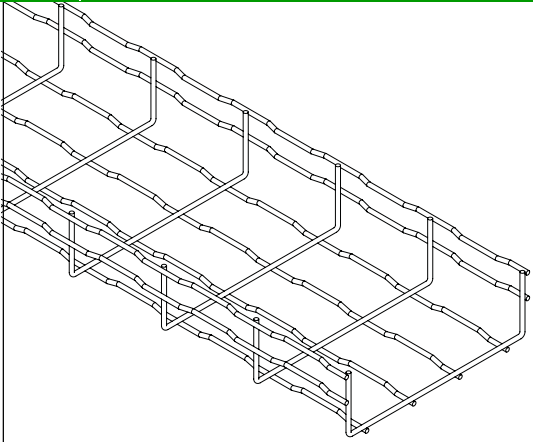


"60 per cent of the agricultural produce used in Bük factory – more than 78,000 tons - comes from Hungarian producers", Over the past ten years the Nestlé Group has purchased cereal crops in excess of 900,000 tons from Hungarian farmers. More than 90 per cent of the plant's output is exported to foreign markets, and the company has exported pet food worth more than HUF 380 billion from Bük since 2006.



3. The product installed: Basorfil BFR

BFR SS304/SS316



Models (BxH):

60x35; 100x35; 150x35; 200x35; 300x35; 60x65; 100x65; 150x65; 200x65; 300x65; 400x65; 500x65; 600x65; 200x105; 300x105; 400x105; 500x105; 600x105.

Materials: SS304, SS316.

Characteristics of the cable tray:

- Metallic
- No-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Resistance to corrosion:

SS304: class 9C

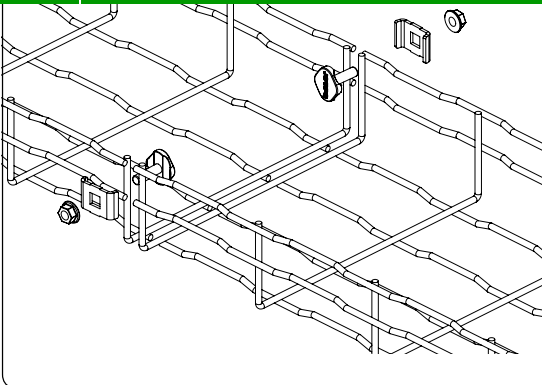
SS316: class 9D

- Impact Strength: 20J - Comply with RoHS, 2011/65/UE

Classification acc. to the free base area:

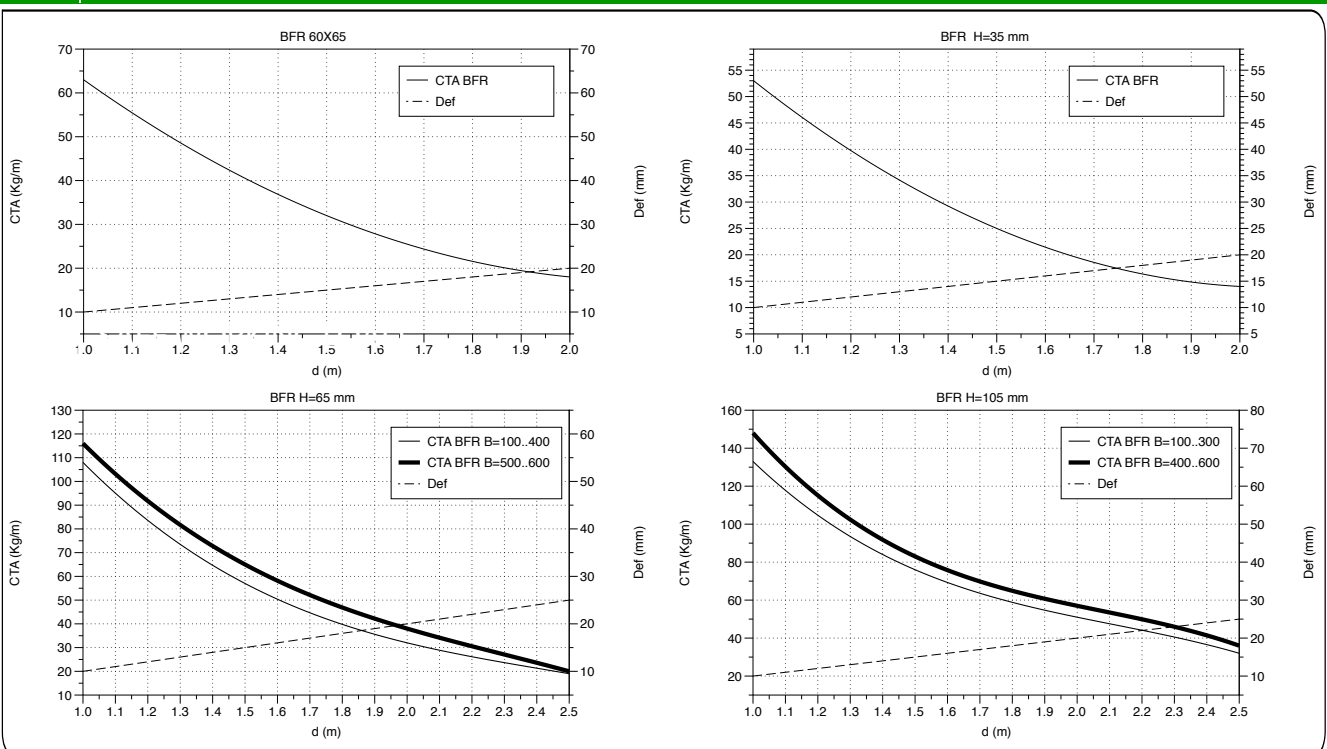
Base Modelos	Class
60	Z
100	Y
150	Y
200	Y
300	Y
400	Y
500	Y
600	Y

ASSEMBLING INSTRUCTIONS

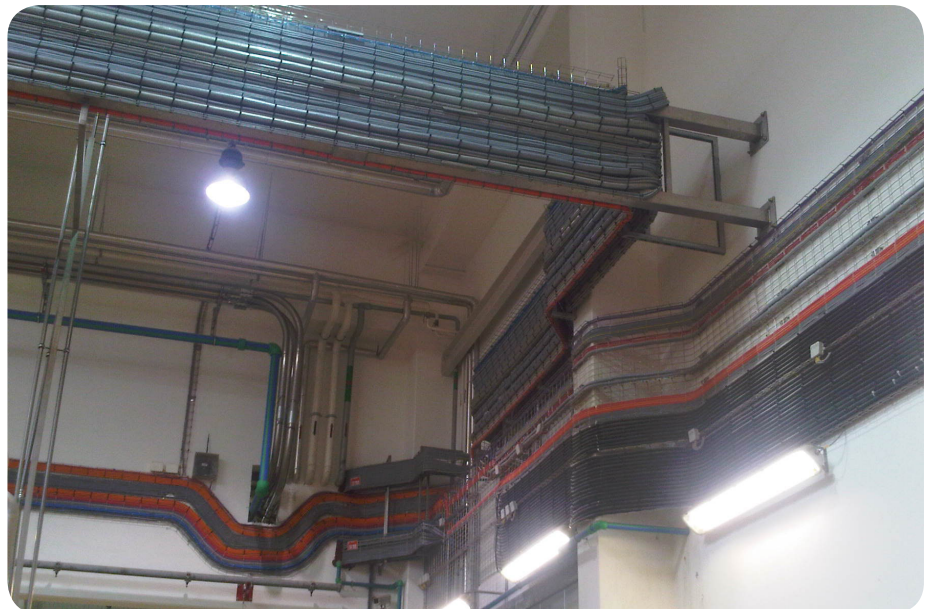


- To assemble 2 trays 1BF bolt&Staple Set are needed in each wing of the tray.
- For trays wider than 200 mm (8") an additional BF Bolt&Staple Set is needed in the center of the base.
- Tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas.
- To guarantee a good ventilation we recommend installing the trays keeping a minimum distance of 250 mm (10") between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm (4/5") from the wall to allow for a proper ventilation of the cables.
- Is recommended to install the union joints between L/4 to L/5 of the distance between supports.

SAFE WORKING LOAD



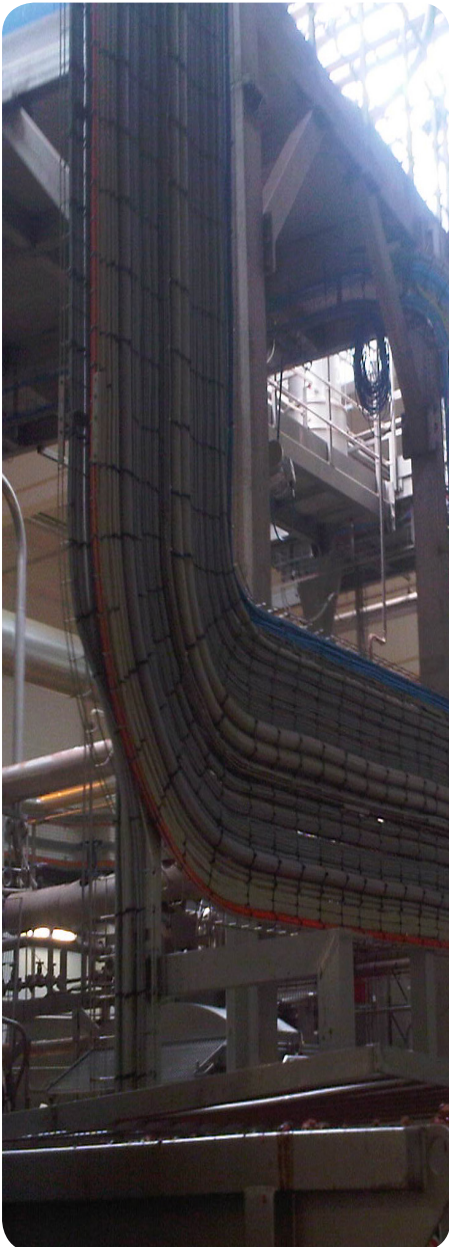
4. Some pictures of the installation



4. Some pictures of the installation



4. Some pictures of the installation



3E Basor

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