

# I MATERIALS SOLUTION I

We place great emphasis on the relevant and optimal selection of materials for every project. Our many years' experience of the harsh environments that equipment and feeding systems are often exposed to means that we are able to offer highly durable, yet competitive solutions.

The table below shows the materials and surface treatments that we normally use.

## Hot galvanisation

Hot galvanisation is a zinc-based surface treatment, otherwise known as hot zincing. Hot-dip galvanisation provides good protection against corrosion in most environments and thus a long life. Galvanisation provides high resistance to mechanical wear, while the zinc provides cathodic protection against corrosion.

Galvanisation methods and standards are carried out in accordance with DS/EN 1461 ISO 2009 (available on request. Please contact us).

## Powder coating

We offers selected equipment and equipment with a powder-coated finish for use in places where it is appropriate for reasons of animal welfare and working functionality.

MATERIALS	DESCRIPTION	PROPERTIES AND USE
<b>Stainless steel</b>	WST no. 1.4301 (A304) WST nr. 1.4509	For e.g. water pipes. Corrosion resistant. Smooth. A particularly easy-to-clean surface. Withstands normal mains water with a chloride content of up to 75 PPM. For values higher than this, details regarding the water quality should be given for a special offer, possibly based on alternative choice of material. For e.g. U-profiles, troughs. Corrosion resistant. Smooth. A particularly easy-to-clean surface.
<b>Iron - steel</b>	Steel 37-2	For e.g. pipes, square profiles, sheet, flat iron, angle iron and round iron etc.
<b>Cast iron</b>	GGG40. Spheroidal graphite	For cast iron slats. May be subject to galvanic corrosion. An intermediate coating of plastic is therefore always used between slats and foot brackets on equipment.
<b>PVC</b>	Surface 100% new lead-free PVC. Nuance differences may occur	For e.g. panels, U-profiles and floor profiles for CLEAN-O-FLEX® and covering (2-climate). Fittings and pipes. PVC is an extremely strong material that withstands repeated heavy exposure without impaired durability.
<b>LDPE</b>	Low Density Polyethylene black plate 10 and 12 mm	For e.g. plastic plates and in INN-O-FLEX equipment. LDPE is impact-resistant with a high resistance to many solvents.
<b>EPP</b>	Expanded polypropylene is an engineered plastic foam material, suitable for items with wall thickness more than 5 mm	For e.g. creep boxes (INN-O-CORNER). EPP provides high impact-resistant and a smooth, easy-to-clean surface that withstands washing with a high-pressure cleaner.
SURFACE	DESCRIPTION	PROPERTIES AND USE
<b>Hot-dip galvanisation</b>	Layer thickness 30-180 µm depending on gauge of metal. A high gauge gives a thicker layer Standard DS/EN 1461 ISO 2009	For e.g. pipes, sheet and profiles. Corrosive attacks are prevented as long as the surface is intact. May be corroded by ammonia. Sharp edges may occur. Slightly rough surface - not easy to clean.
<b>Powder coating</b>	Caking of polymere powder. Layer thickness = approx. 80-100 µm	For selected equipment where appropriate for reasons of animal welfare and working functionality.
<b>Electro-galvanisation</b>	Sendzimir galvanisation. Layer thickness = approx. 17 µm on hoop steel. Approx. 10 µm on screws and bolts	For feed pipes. In particularly harsh environments or where an extra durability is required, stainless steel feed tubes and corners are recommended.

*Subject to changes in materials and design reserved.*



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