

Design of metal components

to be protected by coating with organic materials

Basis DIN EN 14879-1

Surface and stability Surface shall be dense as well as smooth. Cutting edges and welding.

Cutting edges and welding beads have to be removed and rough parts grinded. Each item to be coated must be still enough to resist coating-temperatures of various degrees and sandblasting. All areas of an item to be coated must be visible and accessible to touch by hand.

Edges, flutes and

corners

Edges, flutes and corners have to bee smooth neat and clean cut. The minimum radius of an edge to be powder-coated must be at least 2 mm and within flute. All edges to be spray-coated must have a radius

of 3 mm and within flutes 6 mm.

Welding beads Spot-welding is not acceptable; welding must be no pores, gnarled,

smooth welding, abrasive seams, free of slag, no gaps in welding

beads.

Connection pieces,

flanges, manholes

Connections are possible by means of insertions, detached, apparatus and necking-out. Welding upside coating surface. Inside-corners must be filled radius welding. Edges and welding beads are rounded off and grinded. Manholes min. \varnothing 600. No inside threads. Length of connection

pieces ≤ NW + 100 mm.

Container parting wall Connection of bumped boiler end outside (convex surface) at

container shot with corner iron ring or similar. The resulting cavity must be secured by dense welding beads. Concave part has to be welded

with hugh rounded neat.

Pipe work Straight pipe work min. NW 80 mm, max. length 4000 mm. Shaped pipes

must be accessible from all sides. Length of connection piece ≤ NW + 100 mm, quarter bends > 90°C are to subdivide. Connections are only

possible with the help of flanges. § 3 applies to welding.

Container and fittings — All fittings must be removable in case of being a handicap during

pparatus coating process or when influencing test results. Regarding connection elements non-rusting screws with plastic plain washers are used. Profiles have to be connected by impregnated welding beads,

even if it means only for stiffing purposes.



Technical Datasheet



