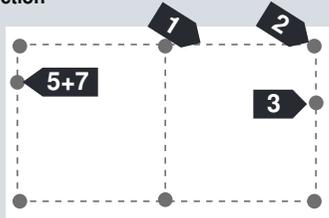


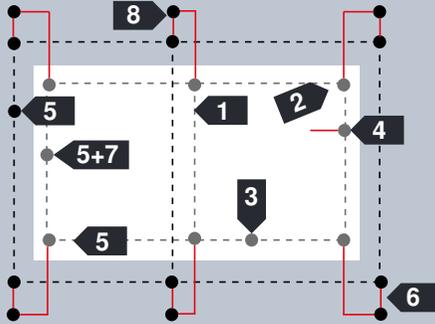
OBO selection aid for foundation and ring earth electrode according to DIN 18014 and IEC/EN 62305-3 (VDE 0185-305-3)

Foundation earth electrode – without lightning protection



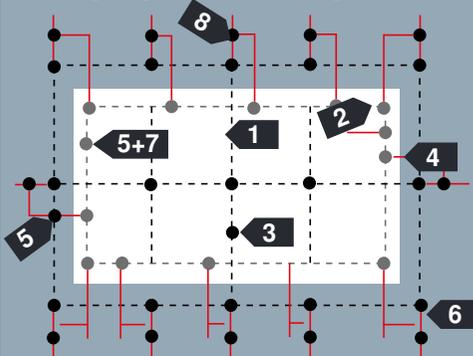
Functional equipotential bonding conductor and ring earth electrode

Without lightning protection → Insulating foundation



Functional equipotential bonding conductor and ring earth electrode

With lightning protection → Insulating foundation



Earthing material, for use in concrete:

- Surrounded by min. 5 cm of concrete on all sides; ≤ 2 m connect to reinforcement
- Grid width max. 20 x 20 m; with EMC protection to VDE 0185-305-4: 5 x 5 m
- Unreinforced foundation: Material no. 1.4571/1.4404, V4A

	Type	Sales units	Art no.	Description
1	5052	50 m	5019347	Strip steel 30 x 3.5 mm FT
	1811 L	25 units	5014026	Spacer 400 mm FT
2	250 A-FT	25 units	5313015	Connector, strip steel with reinforcement FT
3	1814 FT D14	25 units	5014471	Terminal on reinforcement to Ø 14 mm
	1814 FT D37	25 units	5014469	For reinforcements Ø 16–37 mm
4	205 DG L 180 V4A	10 units	5420022	Earthing fixed point M10/M12 with axis
	DW RD 10	10 units	2360041	Sealing sleeve for round conductors 10 mm
8	ProtectionBall	25 units	5018014	Protective cap for connection straps

Earthing and connection material, for use in the earth e.g. cleanliness layer

- Material no. 1.4571/ 1.4404, V4A; clamps in earth with corrosion protection strip
- min. 0.8 m deep, routing outside drainage shaft, frost apron (moist area)
- Grid: Without lightning protection: 20 x 20 m, connection between earth and concrete: Every 20 m, with lightning protection: 10 x 10 m, connection between earth and concrete: Every down-conductor

	Type	Sales units	Art no.	Description
5	RD 10 V4A	50 m	5021642	Round conductor Ø 10 mm V4A
	5052 V4A 30 x 3.5	25 m	5018730	Strip steel 30 x 3.5 mm V4A
6	250 V4A	25 units	5312925	Terminal for round conductor and strip steel
	356	10 m	2360101	Corrosion protection strip, width: 100 mm

Material for equipotential bonding

	Type	Sales units	Art no.	Description
7	1801 VDE	1 unit	5015650	Equipotential busbar, industrial
	1809	1 unit	5015073	Equipotential busbar, private

Foundation earth electrode:



Insulation foundation for:

- WU concrete (white trough) for WZ<0.6, from C30/B35, (from C25/B30) → Already possible
- Black/brown trough
- Completely enclosed foundation with perimeter insulation or dimpled membranes
- Additionally attached, capillary-breaking, poorly electrically conductive earth strata, e. g. made of recycled material

Ring earth electrode:



OBO selection aid for foundation and ring earth electrodes according to DIN 18014 and IEC/EN 62305-3 (VDE 0185-305-3)

