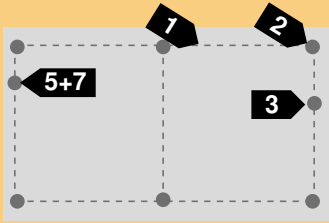


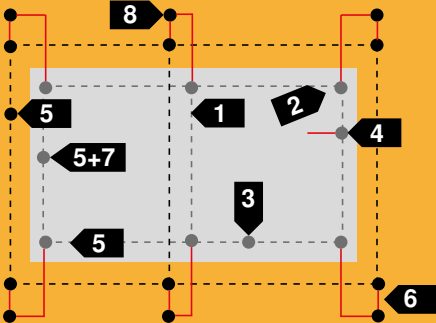
# OBO selection aid for foundation and ring earthers according to IEC/EN 62305 and DIN 18014

## Foundation earther – without lightning protection



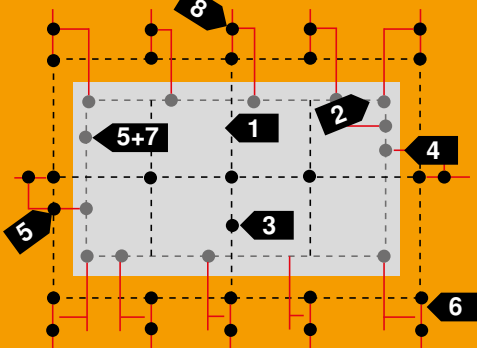
## Functional equipotential bonding conductor and ring earther

- Without lightning protection → insulating foundation



## Functional equipotential bonding conductor and ring earther

- 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 acc. to IEC/EN 62305: 5 x 5 m
- Unreinforced foundation: Material no. 1.4571/1.4404, V4A

	Type	Pack	Item no.	Description
1	5052	50m	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	25 units	5014468	Terminal on reinforcement to Ø 14 mm
	1814 FT D37	25 units	5014469	For reinforcements Ø 16–37 mm
4	205 B-M10 VA	25 units	5420008	Earthing fixed point M10
	DW RD 10	10 units	2360041	Sealing sleeve for round cables 10 mm
	5011 VA M10	50 units	5334934	End piece for earthing fixed point M10
8	ProtectionBall	25 units	5018014	Protective cap for terminal lugs

## 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 arrestor

	Type	Pack	Item no.	Description
5	RD 10 V4A	50 m	5021642	Round cable 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 cable and strip steel
	356	10 m	2360101	Corrosion protection strip, width: 100 mm

## Material for equipotential bonding

	Type	Pack	Item no.	Description
7	1801 VDE	1 unit	5015650	Equipotential busbar, industrial
	1809	1 unit	5015073	Equipotential busbar, private

## Foundation earther:



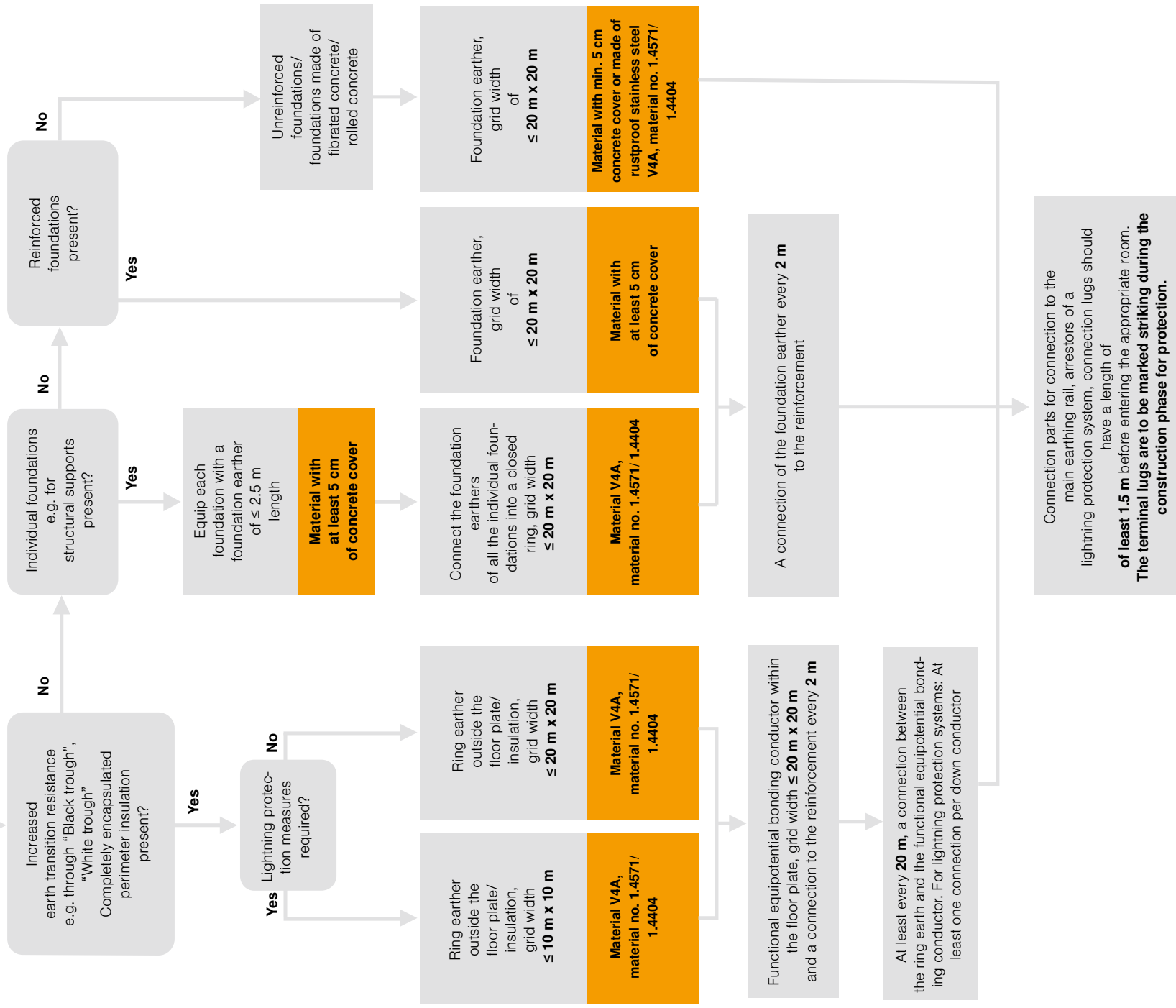
## Insulation foundation when:

- 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 materials

## Ring earther:



## Start of planning



Measurement and documentation