

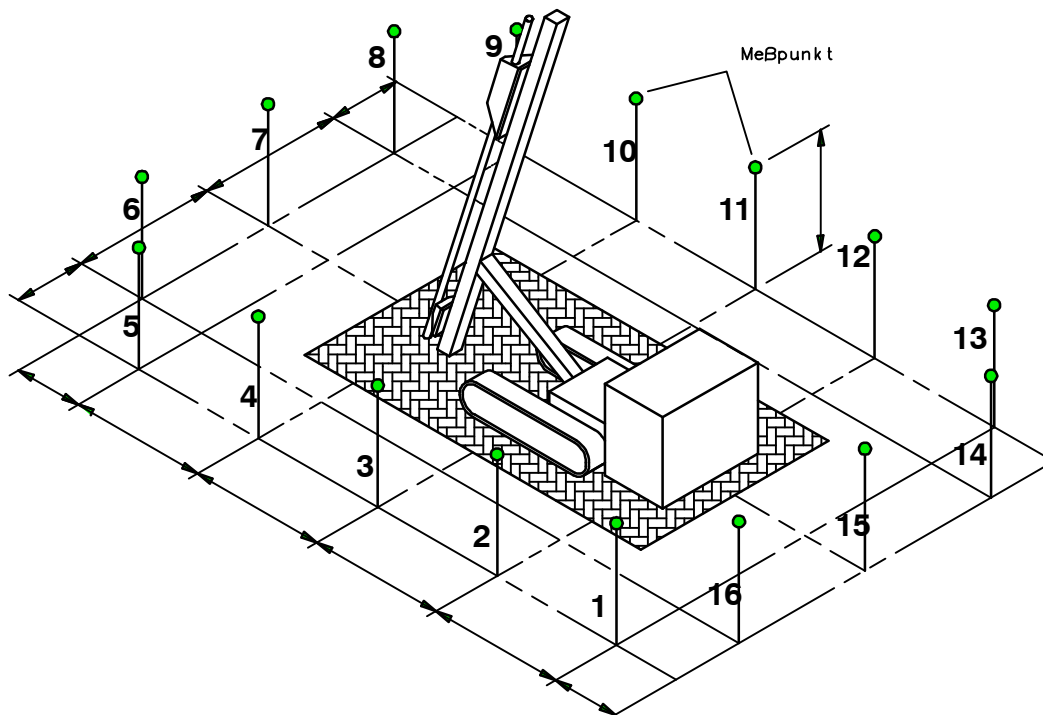
Sound pressure level measurement

Rig type: KR 709-1

Diesel engine: CAT3056 E ATAAC Power: 129,5 kW

Equipment: Rotary drill head KH 43 (rotating)

Measuring device: Bruel & Kjaer 2236 DIN: EN 45635 Part1 and Part 33



Sketch1: Measuring drawing with the measuring points 1-16

Single sound pressure level of the measuring points (measuring distance 1m):

MP 1	MP 2	MP 3	MP 4	MP 5	MP 6	MP 7	MP 8	MP 9	MP 10
91,3	89,3	89,7	89,3	90,7	91,6	96,6	91,8	91,0	92,2
MP 11	MP 12	MP 13	MP 14	MP 15	MP 16	control panel		drivers stand	
95,2	95,6	95,5	99,3	102,8	97,1	89,7		-----	

Measuring area sound pressure level: $L_{pAS} = 90 \text{ db(A)}$

Sound power level: $L_{WA} = 116 \text{ db(A)}$

Power requirement: Diesel engine maximum R.P.M. 2300⁻¹

Drolshagen, 11.05.2004
(Date)

Zeppenfeld
(Examiner)