

## Cone Calibration Certificate

Certificate: **GS-1355-014**  
 Instrument Type: Electric Subtraction Cone  
 Model: S15-CFIIP  
 Serial number: 1355  
 Calibration date: 23-09-2022  
 Client: Baars  
 Calibrated by: I.El Omari  
**Calibration instruments**  
 Manufacturer: Hottinger Baldwin Messtechnik GmbH  
 NMI certificate: 2461165.00501  
**Calibration conditions**  
 Ambient temperature: 24.9 °C  
 Atmospheric pressure: 1016 mBar  
**Cone specifications**  
 Cone base area: 1500 mm<sup>2</sup>  
 Load tip resistance (nom.): 100 kN  
 Friction sleeve area: 22500 mm<sup>2</sup>  
 Load tip + local friction (nom.): 100 kN  
 Load friction sleeve (nom.): 22.5 kN  
 Load pore pressure (nom.): 2 MPa  
 Inclination (nom.): +/- 20 °  
 Temperature compensation (all channels): 0...+40 °C  
 Maximum overload capacity (all channels): 100 %  
 Cone area ratio (a): 0.79  
 Max. Inaccuracy, relative to measurement value: 1.0 %

	Tip:		Sleeve:		Pore Pressure:		Inclinometer:		
	qc in kN	mV	fs in kN	mV	MPa	mV	Degrees	X (mV)	Y (mV)
<b>Zero points:</b>		0281		0288		0183			
	0	0	0	0	0	0	0	2527	2482
	5	0306	5	0312	0.4	1420	-20	0583	0365
	10	0608	10	0622	0.8	3305	20	4474	4564
	15	0910	15	0932	1.2	4252			
	20	1214	20	1245	1.6	5596			
	25	1518	25	1557	2	7021			
	30	1821	30	1868					
	35	2123	35	2178					
	40	2425	40	2489					
	45	2727	45	2801					
	50	3031	50	3111					
	75	4543	75	4664					
	100	6052	100	6215					

Max. error, abs. qc: 35 kPa  
 Max. error, abs. fs: 2 kPa  
 Max. error, abs. u2: 10 kPa  
 Max. error, abs. I: 1 °

This calibration is compliant with Eijkelkamp GeoPoint SoilSolutions internal quality system, internal calibration procedures and meets the requirements of NEN2649, NEN-EN-ISO 22476-1, NORSOK G-001, ISMFE and ASTM using calibration equipment traceable to (Inter-)National Standards.

Approved by:  
 Date:

B. Kop  
 23-09-2022