

Compressive strength and homogeneity



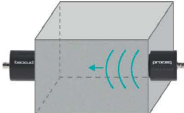


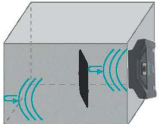





Pundit Live Array Pro

Ultrasonic testing of concrete with the pulse velocity and pulse echo methods, provides information on the uniformity of concrete, cavities, cracks, defects, slab thickness, and also enables the detection of voids, pipes and cracks. The pulse velocity in a material depends on its density and its elastic properties, which in turn are related to the quality and the compressive strength of the concrete.

Proceq's revolutionary wireless tomography scanner **Pundit Live Array Pro** is connected with an iOS app to an Apple iPad®. Thanks to its Artificial Intelligence (A.I.) and 3D visualization capabilities, it supports the user to assess concrete structures and detect defects faster and easier than ever before.

Applied standards and norms: EN12504-4, ASTM C 597-02, BS 1881 Part 203, ISO1920-7:2004, IS13311, CECS 21. CE certification.

Portfolio and applications overview

Technology	Product	Measurement modes	Assessment of concrete quality	
Ultrasonic pulse velocity Through transmission: access from two sides 	Pundit Lab(+) 	<ul style="list-style-type: none"> A-scan Data logging 	<ul style="list-style-type: none"> Compressive strength using SONREB Determination of crack depth Modulus of elasticity 	
	Pundit 200 	<ul style="list-style-type: none"> A-scan Line scan Data logging Area scan 		
Ultrasonic pulse echo Single side access 	Single-channel 	Pundit 200 Pulse Echo 	<ul style="list-style-type: none"> Slab thickness from a single side Detection and localization of voids, pipes, cracks (parallel to surface), and honeycombing Location of pipes and tendon ducts beyond the rebar layer Pundit 250 Array: <ul style="list-style-type: none"> with real time B-scan and panorama B-scan capability Upgrade to 16 channels Pundit Live Array Pro: <ul style="list-style-type: none"> Fastest solution with best on-site imaging capabilities Wireless and IoT-enabled with reporting features and A.I. user support 	
	Multi-channel 8 dry point contact channels 	Pundit 250 Array 		<ul style="list-style-type: none"> Real-time B-scan Panorama B-scan
		Pundit Live Array Pro 		<ul style="list-style-type: none"> B-scan Line scan 3D scan

Ultrasonic pulse velocity transducers

	24 kHz	54 kHz	150 kHz	250 kHz	500 kHz	54 kHz	40 kHz (S-wave)
							
Max. grain size	≈ 77 mm	≈ 34 mm	≈ 12 mm	≈ 7 mm	≈ 3 mm	≈ 34 mm	≈ 34 mm
Min. lateral dimension	154 mm	69 mm	25 mm	15 mm	7 mm	69 mm	55 mm
Applications	Mass concrete	Most concrete applications	Small concrete objects	Fine grained rock, refractory bricks	Fine grained rock, ceramics	Rough/rounded concrete surfaces	Determination of elastic modulus