

proceq

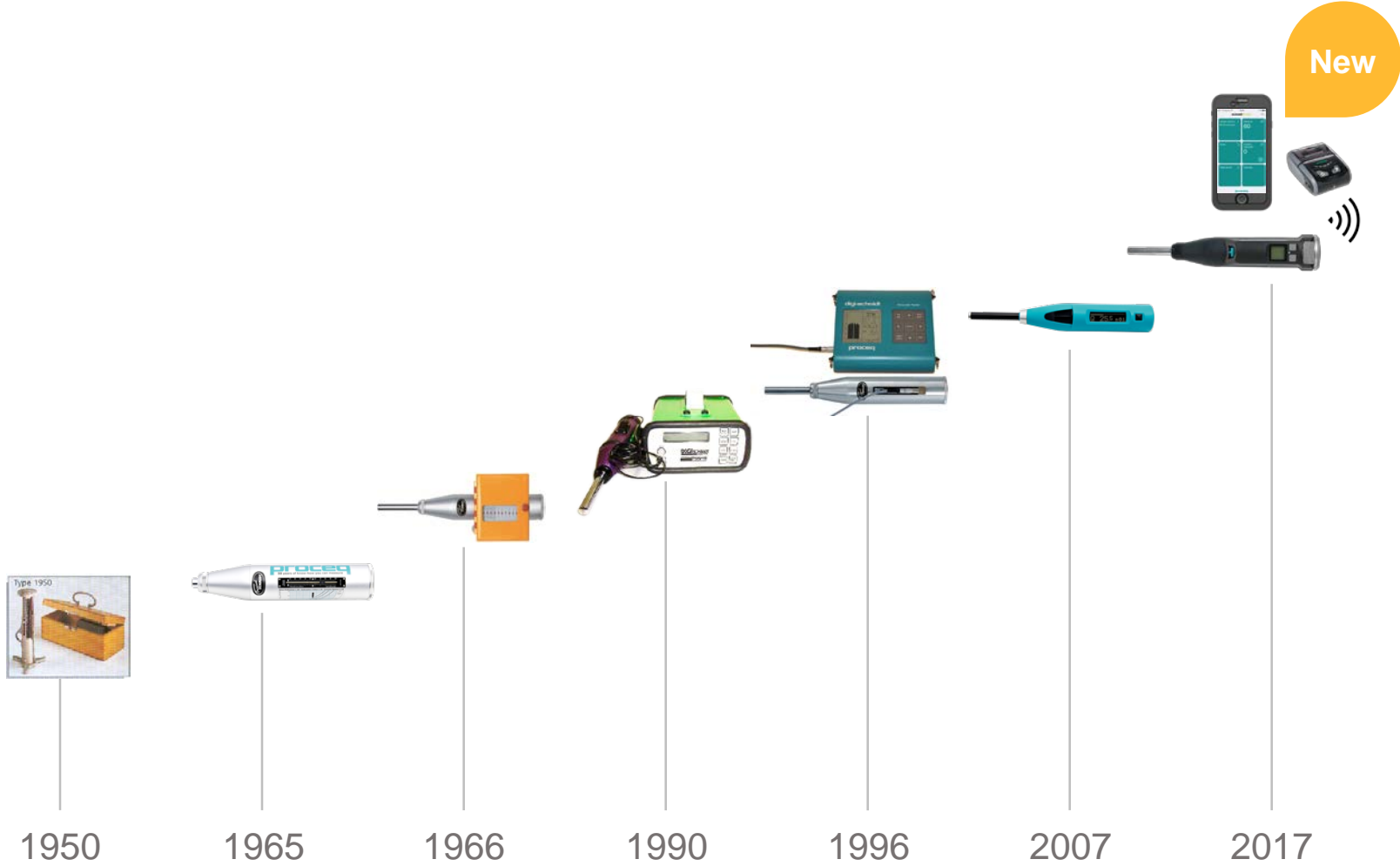
🇨🇭 Solutions since 1954



Schmidt®

Strength and Uniformity Testing

# Inventors of the Rebound Hammer



# Strength and Uniformity



## Concrete



As-built verification



Integrity assessment



Formwork removal



Substitute coring

## Rock



Field testing



Core strength

## Paper



Roll profiling



Winder alignment

Measure		Convert	Result
<p>Normal energy concrete thickness &gt; 10 cm Low energy concrete thickness &lt; 10 cm</p>			<p><b>MPa</b> Strength</p>
<b>R</b>	Mechanical	Traditional method	<p>10 70</p>
<b>Q</b>	Electronic	Extremely accurate	<p>5 100</p>

# Industry Pain Points



Time consuming



Limiting



Unreliable

# Schmidt® Portfolio



New

Schmidt OS-120

Original Schmidt

Original Schmidt Live

SilverSchmidt



Low Strength / Mortar

Concrete / Rock / Paper

R

Q

Analogue

Digital

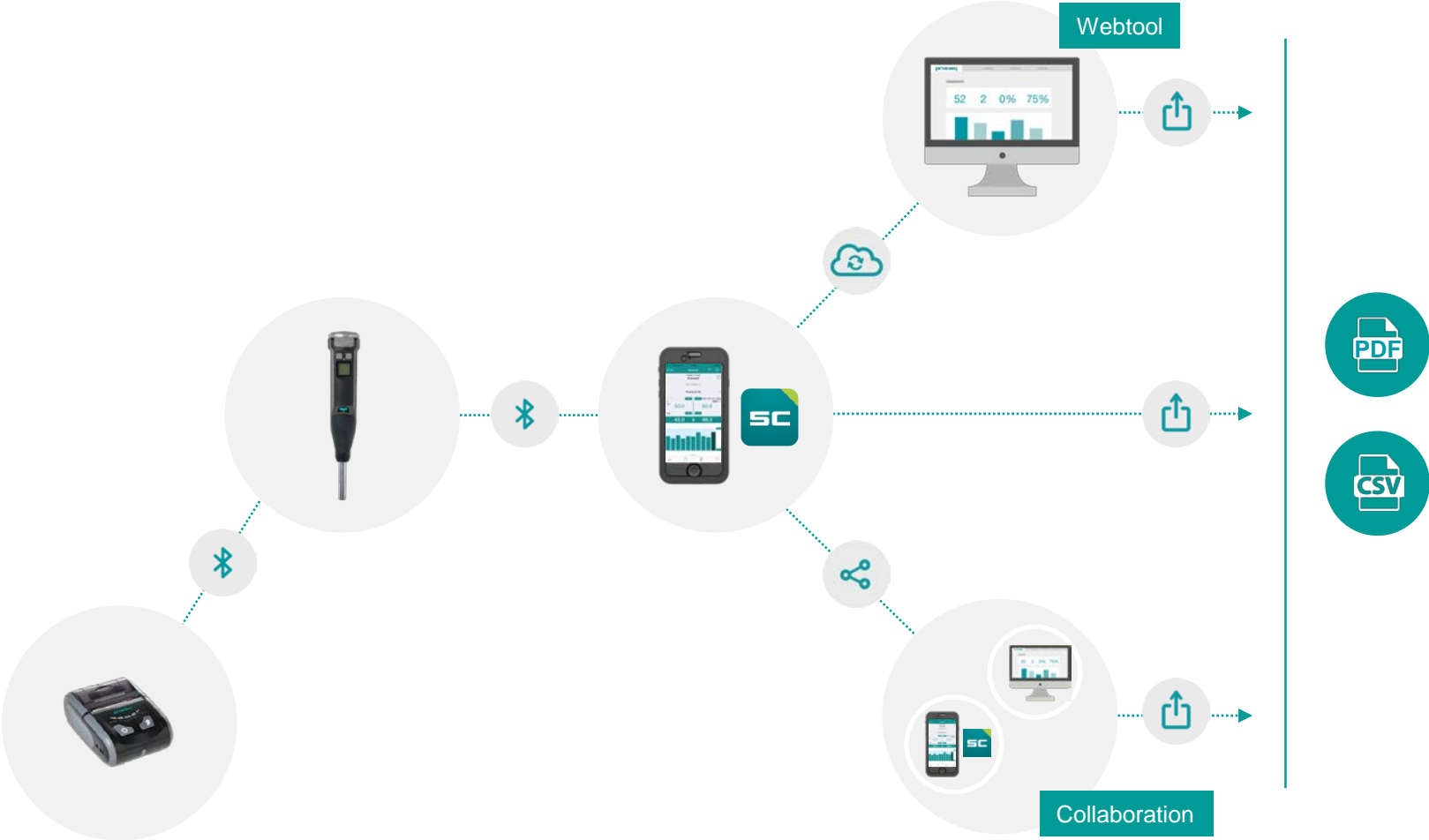
**proceq**

🇨🇭 Solutions since 1954

# Original Schmidt® Live



# Schmidt Live Solution





# Spotlight: Increased Productivity



Wall with 81 measurements

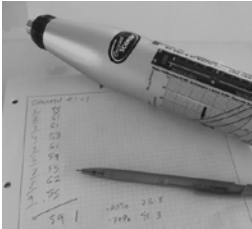
**16 min**

Original  
Schmidt Live



**100 min**

Traditional



0 10' 20' 30' 40' 50' 60' 70' 80' 90' 100'

Minutes

# Patented Design



# Highly Intuitive Digital Hammer



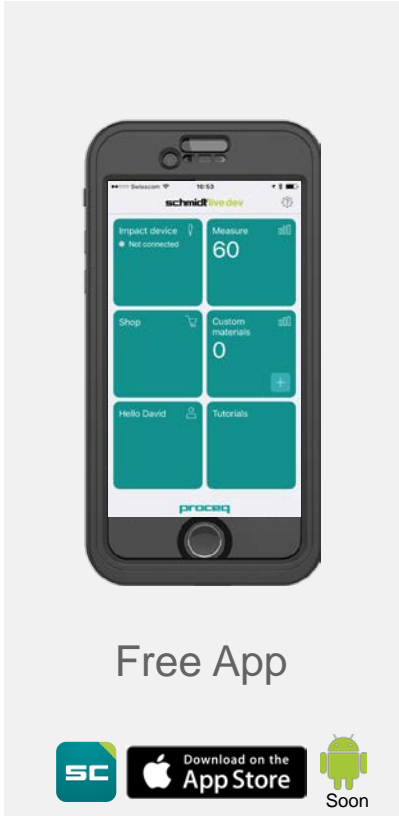
# Expandable



## Stand-alone



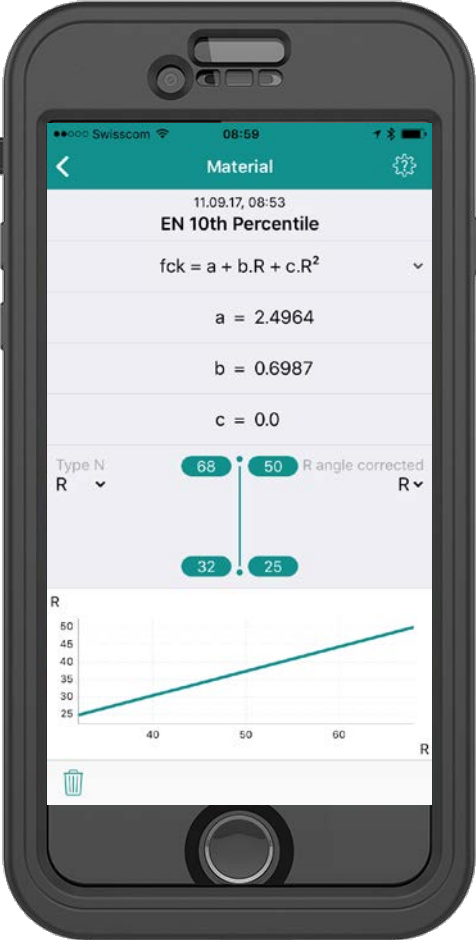
## Connected



# Highly Intuitive App



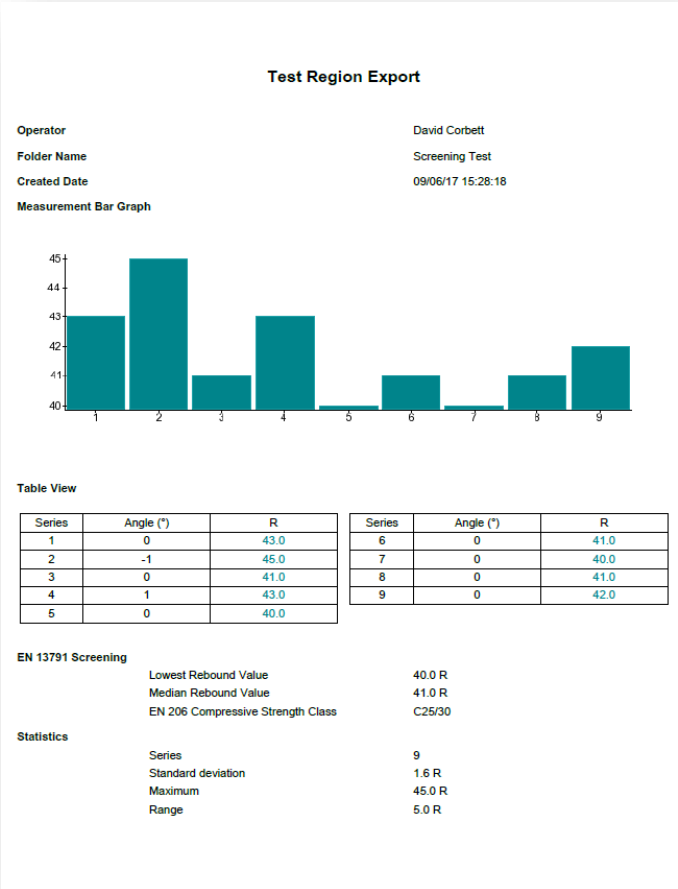
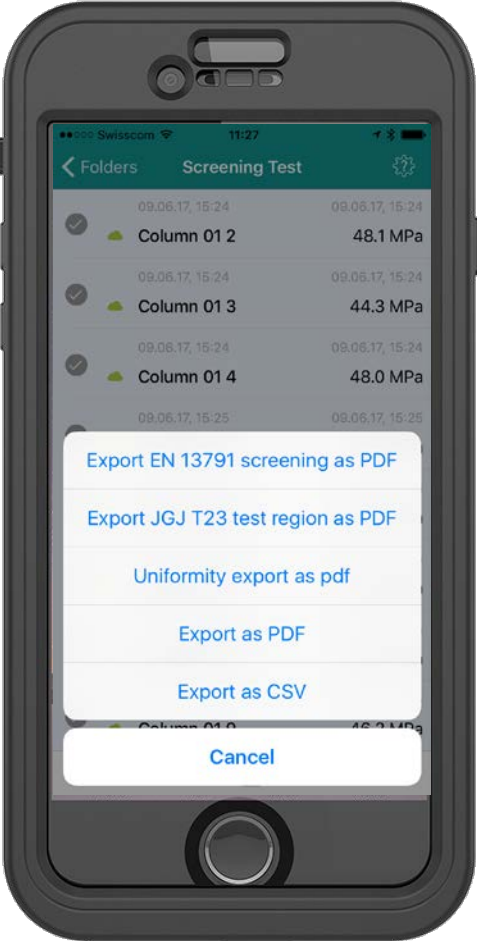
# Customized Strength Correlations



*„Improve accuracy with custom curves according to ASTM / EN“*

David Corbett,  
Product Manager Proceq

# Reporting



# Easy Verification

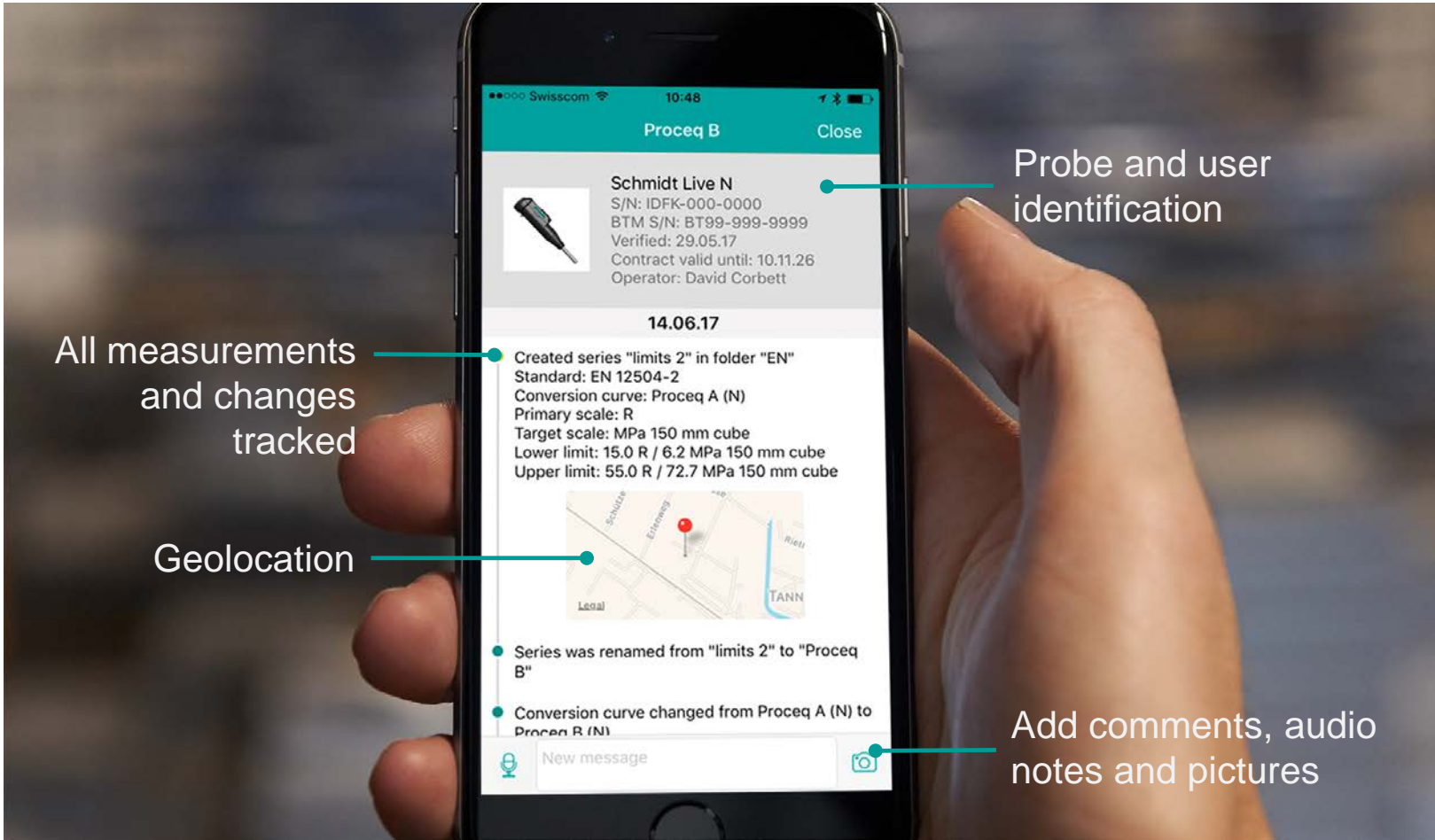


*“... use the reference anvil to ensure that the values are within the range recommended by the manufacturer ...”*

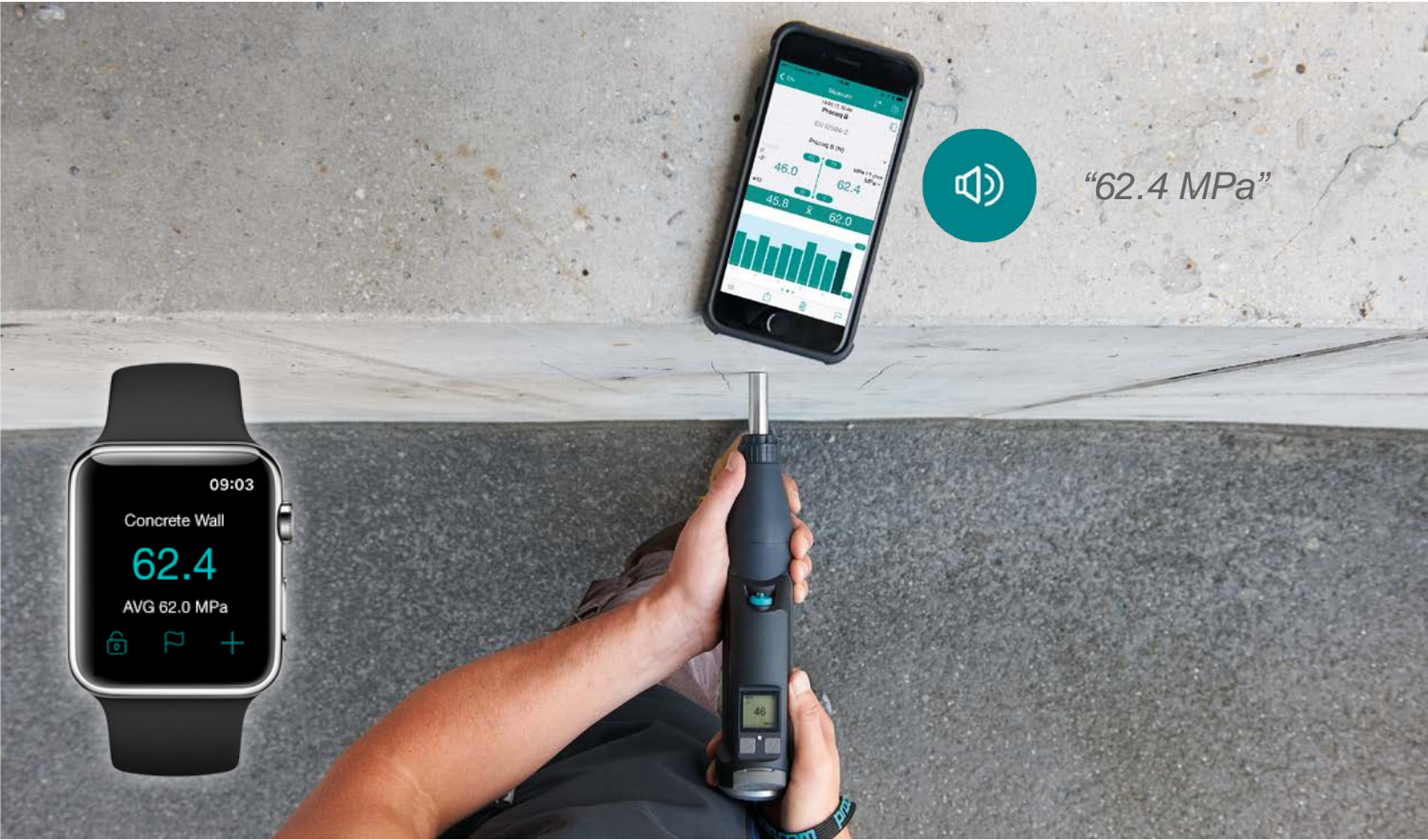
EN 12504 Testing concrete in structures



# Logbook



# Ultimate Portability



# Web based Reporting Tool



Browser address bar: <http://live.proceq.com>

Navigation: proceq live | Jorg Engesser | Equotip Live | Data Review | En | User | Settings


### Data Review

- ASTM 3
- DC Test 13
- EN 3
- JGJ 23
- JSCE 3
- My Measurements 5
- Screening Test 10
- All Measurements 61
- Flagged 0
- Trash 1

Actions
Refresh

Name	Created On	Standard	Scale Unit																																								
portland J	06/14/2017 10:57 AM	ASTM C805	kg/cm <sup>2</sup>																																								
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="font-size: small; margin-top: 5px;"> <caption>Measurements</caption> <tr><td>1</td><td>139 kg/cm<sup>2</sup></td></tr> <tr><td>2</td><td>350 kg/cm<sup>2</sup></td></tr> <tr><td>3</td><td>178 kg/cm<sup>2</sup></td></tr> <tr><td>4</td><td>328 kg/cm<sup>2</sup></td></tr> <tr><td>5</td><td>258 kg/cm<sup>2</sup></td></tr> <tr><td>6</td><td>129 kg/cm<sup>2</sup></td></tr> <tr><td>7</td><td>191 kg/cm<sup>2</sup></td></tr> <tr><td>8</td><td>315 kg/cm<sup>2</sup></td></tr> <tr><td>9</td><td>124 kg/cm<sup>2</sup></td></tr> <tr><td>10</td><td>363 kg/cm<sup>2</sup></td></tr> </table> </div> <div style="width: 45%;"> <table border="1" style="font-size: small;"> <caption>Statistics</caption> <tr><td><b>Average</b></td><td>234 kg/cm<sup>2</sup></td></tr> <tr><td><b>Readings</b></td><td>6</td></tr> <tr><td><b>Minimum</b></td><td>139 kg/cm<sup>2</sup></td></tr> <tr><td><b>Maximum</b></td><td>328 kg/cm<sup>2</sup></td></tr> </table> <table border="1" style="font-size: small; margin-top: 5px;"> <caption>Settings</caption> <tr><td><b>Upper Limit</b></td><td>804 kg/cm<sup>2</sup></td></tr> <tr><td><b>Lower Limit</b></td><td>42.2 kg/cm<sup>2</sup></td></tr> <tr><td><b>Standard</b></td><td>ASTM C805</td></tr> <tr><td><b>Conversion curve</b></td><td>Portland Cement J</td></tr> <tr><td><b>Name</b></td><td>kg/cm<sup>2</sup> 150 mm cube</td></tr> <tr><td><b>Unit</b></td><td>kg/cm<sup>2</sup></td></tr> </table> <div style="text-align: right; margin-top: 5px;"> <a href="#" style="background-color: #0070c0; color: white; padding: 2px 5px; border: none;">Logbook</a> </div> </div> </div>				1	139 kg/cm <sup>2</sup>	2	350 kg/cm <sup>2</sup>	3	178 kg/cm <sup>2</sup>	4	328 kg/cm <sup>2</sup>	5	258 kg/cm <sup>2</sup>	6	129 kg/cm <sup>2</sup>	7	191 kg/cm <sup>2</sup>	8	315 kg/cm <sup>2</sup>	9	124 kg/cm <sup>2</sup>	10	363 kg/cm <sup>2</sup>	<b>Average</b>	234 kg/cm <sup>2</sup>	<b>Readings</b>	6	<b>Minimum</b>	139 kg/cm <sup>2</sup>	<b>Maximum</b>	328 kg/cm <sup>2</sup>	<b>Upper Limit</b>	804 kg/cm <sup>2</sup>	<b>Lower Limit</b>	42.2 kg/cm <sup>2</sup>	<b>Standard</b>	ASTM C805	<b>Conversion curve</b>	Portland Cement J	<b>Name</b>	kg/cm <sup>2</sup> 150 mm cube	<b>Unit</b>	kg/cm <sup>2</sup>
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early strength J	06/14/2017 11:06 AM	ASTM C805	kg/cm <sup>2</sup>																																								
blast furnace I	06/14/2017 11:11 AM	ASTM C805	kg/cm <sup>2</sup>																																								

# Direct Printing



**Default**

ID:	1234
Serial No:	OS01-000-0000
R	
#1:	40
#2:	36
#3:	40
#4:	36
#5:	35
#6:	37
#7:	42
#8:	40
#9:	39
#10:	40
Average:	38.5

Values  
Bar chart

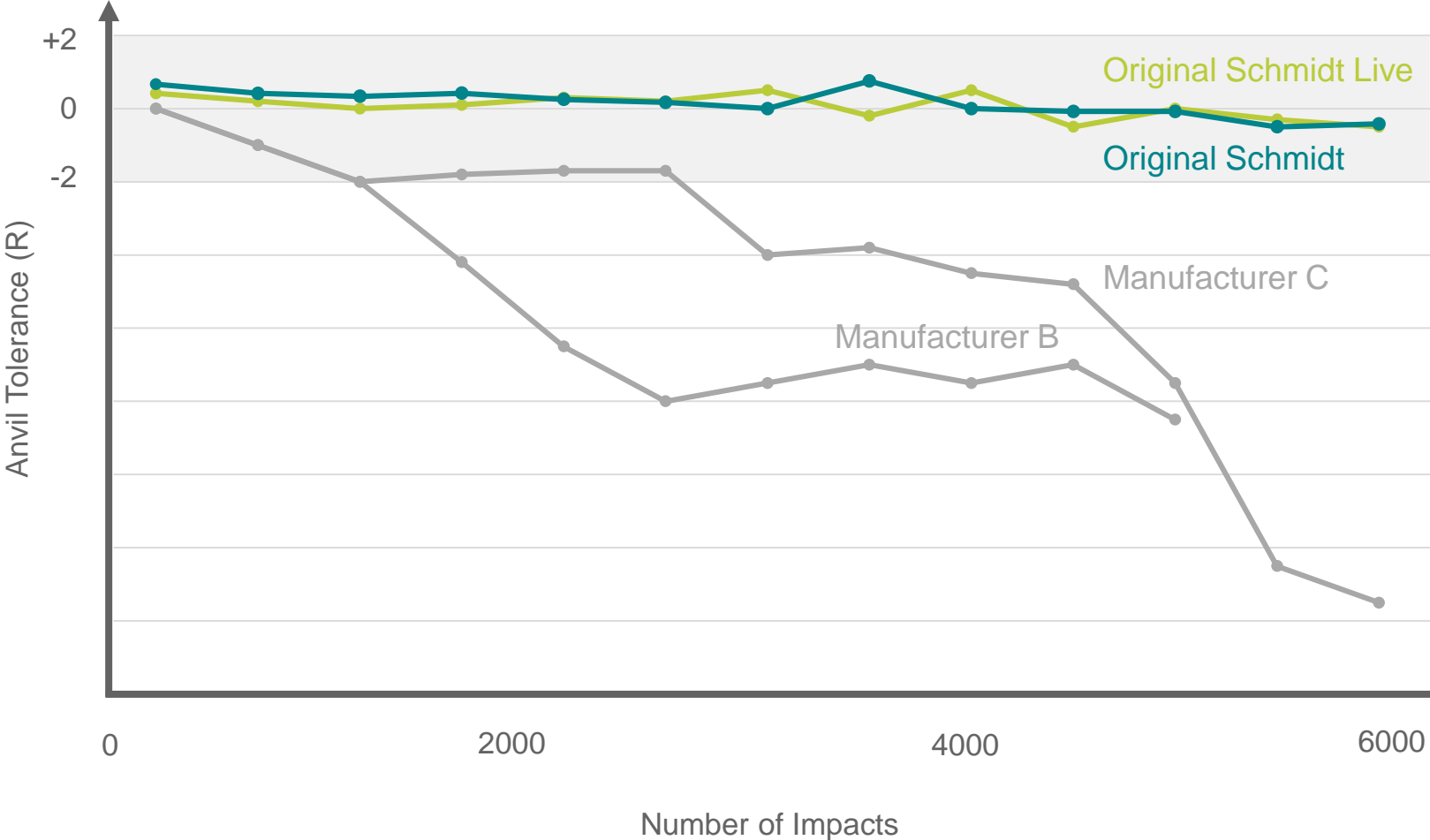
**JSCE-G504**

ID:	1234
Serial No:	OS01-000-0000
R	
#1:	40
#2:	36
#3:	40
#4:	36
#5:	35
#6:	59
#7:	42
#8:	40
#9:	39
#10:	22
#11:	42
#12:	44
#13:	49
#14:	44
#15:	48
#16:	45
#17:	45
#18:	48
#19:	41
#20:	40
Average:	41.2
Max:	59
Min:	22
Std. Dev:	7.2
JSCE-G504	
Valid:	18
Invalid:	2
R0:	41.9
R1:	+3
R2:	0°
Age:	28d
Compressive Str:	39 Mpa

Outliers

Corrections  
Strength

# Schmidt® – Consistently the Best



# Global Standards Conformity

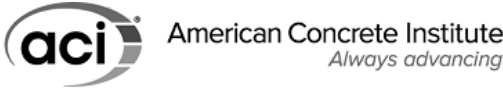


EN



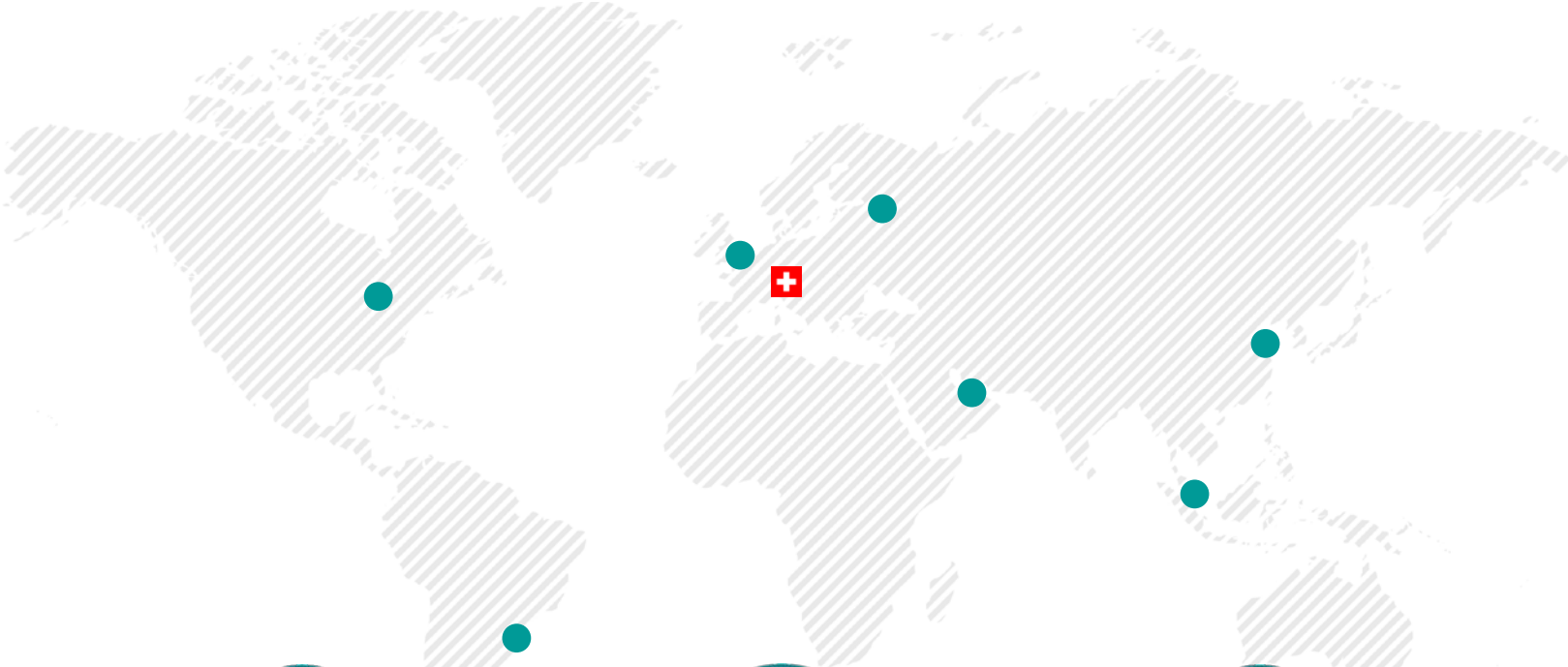
JGJ

JCSE



GOST

# Global Proceq Service Network



Fast



Local



Efficient

# Original Schmidt Live



Increased productivity



Comprehensive



From the inventor



# Schmidt® Family Pricing

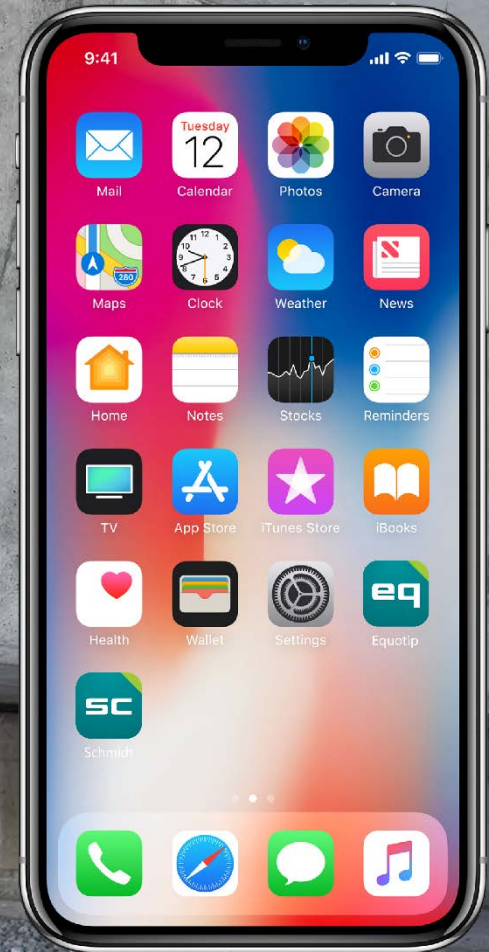


	Schmidt OS -120	Original Schmidt	Original Schmidt Live		SilverSchmidt			
			App	Print	ST	PC	Paper	Rock
Analogue								
Digital								
Reporting								
Direct printing								
App								
Type N (CHF)		970	1,290	1,650	1,650	2,100		2,100
Type L (CHF)	2,780	1,300	1,650	2,100	1,650	2,100	2,400	2,100

New

New

# Future-proof





Schmidt®

Strength and Uniformity Testing

Pricing is subject to change. Features are subject to change. Tablet or smartphone not included in offerings. Additional fee may apply. General terms and conditions of sale and rental apply, see: [www.proceq.com/service](http://www.proceq.com/service)