



## Infrastruct Asset Management Services Newsletter

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## PAS 91 Audit Passed

Just last week at Infrastruct AMS we received confirmation that we have passed our Achilles Building Confidence PAS 91 Audit. THE PAS 91 Audit is a government sponsored scheme that audits potential suppliers to the Public Sector for compliance with the UK legal framework governing safe working practices and employment law. Our certificate will be available on the website and is currently on LinkedIn.

## New Pull-Out Testing Rig

Our new Pull-Out testing rig arrived last week and we put it to work straight away. Two jobs have already been completed for proof loading anchors before they are loaded as part of their intended use. This means we now have a large heavy loading rig and a smaller rig for lighter loads. Contact us for your pull-out load testing requirements.

*"Infrastruct's input into the project in Liverpool has been invaluable"*

*-N J O'Gorman*



Proof Load Testing to 140kN

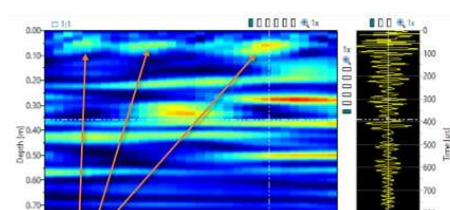
## Thickness Gauging of Metal

One of the many pieces of equipment we have at our disposal is the excellent Proceq Zonotip+ ultrasonic thickness gauge. We will shortly be using it on a project to verify the uniformity of thickness of steel plate cross sections. It is great for picking up inclusions or voiding in metal specimens and can identify the boundary between 2 different materials.



Zonotip+ Signal response

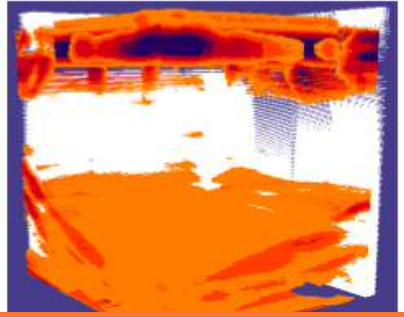
## Tunnel Inspections



Pulse Echo testing of tunnel lining

We recently completed a comprehensive survey of sections of tunnel for a large telecoms company. This involved creating a robust test procedure to document tunnel locations and then testing these locations utilising 3 different methods that were combined when necessary to build-up a picture of the condition of the lining.

The three methods used were Impulse Response to give us a wide area overview of the condition of the tunnel and then Pulse Echo to analyse wall thickness and finally GPR for larger sections of the wall where more information was required to understand the nature of issues in the concrete. Using this comprehensive approach we were able to highlight areas needing repair or rehabilitation.

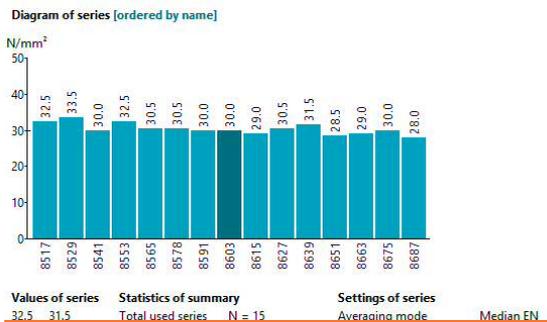


3D GPR image of wall section

## Correlation of core data

Sometimes our customers approach us with interesting testing projects! A little while ago we worked with an international contractor on a possible case of non-conforming concrete. To help keep costs down and use all the available data possible—we carried out correlation of test data from site using non-destructive techniques with data from cores taken from site. Also we had access to cube test data.

In this instance core locations were specified using GPR to reduce the likelihood of hitting steel—we then instructed cores to be taken from specific areas so as to then correlate rebound hammer and ultrasonic pulse velocity (UPV) data with the core data. Using this method means we can carry out tests on other areas of the structure using the rebound method and/or UPV—as long as the mix, type and age of the concrete is similar. This method can reduce the overall number of cores that need to be taken from a site and therefore reduce testing costs.



Rebound Hammer results

## And Finally...

Infrastruct recently commissioned a new logo and we are in the process of updating all our stationary. All our



**INFRASTRUCT**  
 Asset Management Services Limited

vehicles have the new logo so please keep an eye out for them at a site near you!



Our new van!

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