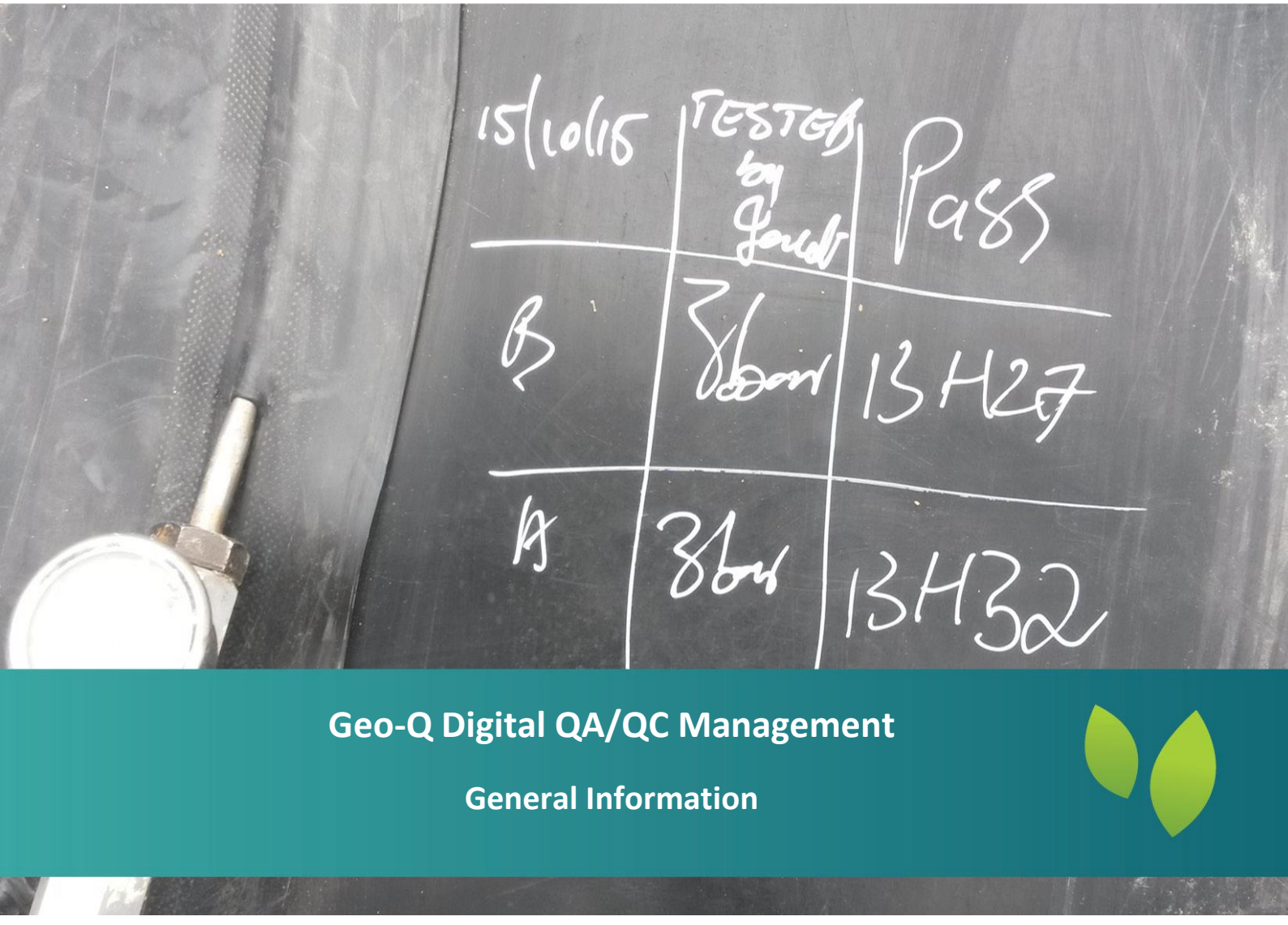
Dulen Group



Geo-Q Digital QA/QC Management

General Information

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What is Geo-Q?

Geo-Q is the first digital quality control system for use in geomembrane installations and is now being launched in Australia. Cloud technology keeps previously haphazardly handwritten records safe and organised in a digital format. Notably, quality control records are kept live and up to date at all times. It breaks down traditional project silos as all project stakeholders have access to transparent information at any time, from anywhere. It is like being on site 24/7, from any part of the world.

The improved communication and measurements offered by Geo-Q implementation results in less rework, less disputes and less man hours on site. It can be tailored to suit any project and any quality standard.

Geo-Q has been extensively used and tested on major infrastructure projects by global companies such as Exxaro and Sasol. It has offered all parties in the geomembrane installation process, from manufacturers to installers, the opportunity to improve their business processes and reduce waste. By utilising this collaborative project approach, projects now have a higher success rate by safeguarding the critical performance expected of geomembranes: to protect the environment and our precious water sources from hazardous pollutants seeping into the ground.

How can Geo-Q help you?

Cloud based design:

Data is captured in real time, so QA documents are up to date at any point in time, to all parties.

Data packs are available immediately upon completion of the project, no editing required. Extremely large projects may require a maximum of four hours to complete all data packs.

Number of hard copy data packs required is greatly reduced.

Access the project data from anywhere in the world, from any device. Prepare before site visits and check milestone completion to reduce time on site.

Complete tractability of lining materials is possible, thereby eliminating any possibility of fraud between manufacturing, delivery and installation of lining materials.

Can enforce any applicable quality standard:

No room for interpretation of the quality standard means consistent results. Even different service providers will deliver the same, consistent results.

The number of non-conformance reports (NCR's) can be greatly reduced, which means less time and money spent on rework.

Eliminates errors during data capturing:

No room for data errors during installation means that even very complex installations can be executed and tracked without a lot of additional paperwork.

No garbage data reduces the need for document rework, ambiguous results and reduces installation errors.

Can be customised to any project:

Specific standards, check lists, hold points and stakeholders can be customised, so the QA of any unique project can be standardised.

Dashboard type interface:

Information is summarised and easily visible. Project deliverables can be easily monitored and it assists with decision-making.

More helpful advantages:

Upload documents, images or videos for instant reference points.

Live chats can be used as Minutes of Meeting

Due to the immediate access to information, it is possible to immediately sign-off on the day's work. Hold points can be resolved immediately, or in a lot less time.

The cloud based design allows for a collaborative project approach, meaning disputes between stakeholders can be minimised and better cooperation and trust is possible.

Enables the user to carry out auditing of the works.

Services included with Geo-Q Online QAQC Management System

The geosynthetic installation management software is a cloud-based system requiring access to internet connectivity. If work is done while off-line, updates will happen automatically once an internet connection is established. The software is the first of its kind in the geo-synthetics industry encompassing your local standards to implement both QA and QC during its operational management of the Geosynthetic installation. All CQA verifications are completed daily.

The following minimum features are standard with the current release:

Organization setup

- Registration of employees
- Registration of equipment
- Registration of stock items
- Project design planning (verification list)

Registration of Project detail

- Registration of Geo-synthetic layers
- Registration of panels, seams and joints
- Linking of employees and equipment to a project
- Stock receipt
- Registration of acceptance requirements, roles and verification list

Project Operations Management

Production monitoring via QCP (Quality Control Procedure) report and the recording and approval of the following activities:

- Verify Material
- Surface Acceptance
- Trial Weld
- Cutting of Sheets
- Placing of Sheets
- Welding of Seams & Joints
- Testing of Seams & Joints

- Repairs
- Final Acceptance
- Final Report Delivery

Reporting both daily and cumulatively for:

- All verification and acceptance features
- Panel planning with production
- Panel installation production
- Quality deviations/failures
- Weather, etc.

Additional Services:

Customization

- Corporate identity can be incorporated uniquely to the customer requirements

Security Function

- Your data is securely stored in the cloud
- User name and password protected
- Each client has a separate Cloud space storage allocated for his sole use
- One single Administrator
- Confidentiality agreement

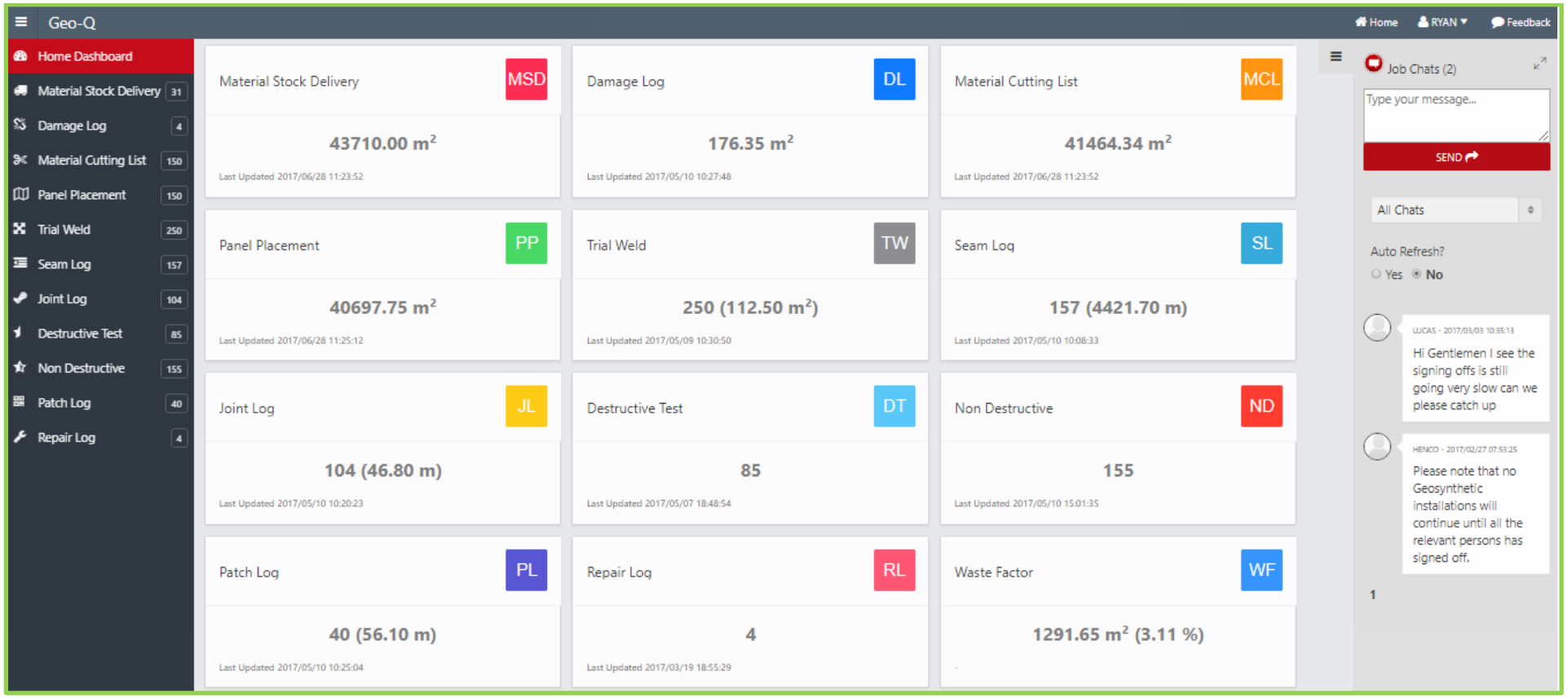
Training

- Training will be provided for various phases of the execution of the Geo-Q system
- Training will be quoted separately

Support

Online or telephonic support is available during working hours RSA time.

The operational management acceptance process, testing and reporting requirements are based on the requirements of the current SANS 10409 (South African National Standards). The Standard can be changed to make provision for any Standard worldwide as well as project specific verification lists to meet the Client or Engineers requirement. The system inherently makes the linking of notes, images and files possible to any detailed data.

The system also makes provision for customization of reporting for executive staff. Additional features under development will be added as they become available. Project references can be supplied on request.

Dashboard Example