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Corporate presentation of  
**G quadrat Geokunststoffgesellschaft mbH**

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# Head office and production plant „DuoLiner“



- Founding in August 2000
- Registered office in Krefeld, next to Düsseldorf
- Family owned majority shareholding
- Subsidiary company DuBA GmbH (founding in 2009)
- More than 50 employees (including DuBA)
- Turnaround  $G^2 > 25$  Mio.
- DuoLiner-production-plant in Niemegek (south of Berlin)
- DuoDrain-production-plant in Moers (next to Düsseldorf)



## Shareholding:



*S-P-D GmbH & Co.KG*

## Partners:



\* Shareholder of G²

## **Field of activity:**


- Landfill construction
- Hydraulic engineering / groundwater protection
- General underground construction
- Renewable energies
- Tunnel engineering
- Research and development

## **Services:**

- Tendering
- Overtaking of whole order processing
- Installation with own machines or trusted partners



- AK GWS promotes the development and application of safe, environmentally compatible and resource-saving construction methods and techniques
- Highest standard in German laws
- Durability/lifetime of at least 100 years
- Nationally acceptance of the authorities
- Additional certification according AKTA, WHG §19

 **Kiwa TBU GmbH**  
Gutenbergstr. 29  
48268 Greven  
Germany

**Certificate 0799-CPD-122.1**  
**Factory Production Control**

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive – CPD), amended by the Directive 93/69/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction products

**Mineralisches-Deponie-Dichtungs-Schutzsystem (MDDS)**  
**Kapillar-Block-Bahn (KBB)**

produced by the manufacturer

**G quadrat Geokunststoffgesellschaft mbH**  
Adolf-Dembach-Straße 4a  
47829 Krefeld  
Germany

are submitted by the manufacturer to the initial type-testing of the products, a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body Kiwa TBU GmbH, Greven, Germany, has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.



This certificate attests that all provisions concerning the attestation of factory production control described in Annex ZA of the standards

**EN 13252:2000 + A1:2005, 13257:2000 + A1:2005, 13265:2000 + A1:2005**

were applied.

This certificate was first issued on 27.10.2010 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

Greven, 4.5.2012

   
Dipl.-Ing. (FH) Verena Wesselmann-Hinz

 **Partner for progress**

**Kiwa MPA Bautest GmbH, NL TBU Greven**

Bestätigung der Gültigkeit der ausgestellten Zertifikate

Aufgrund der Ergebnisse der werkseigenen Produktionskontrolle (WPK), der durchgeführten laufenden Werksüberwachung lt. Inspektionsbericht 2013 vom 06.11.2013 wird dem Hersteller

G quadrat Geokunststoffgesellschaft mbH  
Adolf-Dembach-Straße 4a  
47829 Krefeld

für die/das Herstellerwerk  
Sandmatenwerk Niermegk, Treuenbretener Straße 35  
14823 Niermegk

hiermit die weitere Gültigkeit folgender Zertifikate der KIWA MPA Bautest GmbH bestätigt:

Zertifikat über die werkseigene Produktionskontrolle /EG-Konformitätszertifikate:

0799-CPD-122

Erstausgabe: 27.10.2010  
Aktuelle Ausgabe am Tag der Inspektion: 04.05.2012

Greven, 09.04.2014

  
I. A. Dipl.-Ing. (FH) Verena Wesselmann-Hinz  
- Head of certification body -

Digitally signed by Dipl.-Ing. (FH) Verena Wesselmann-Hinz  
DN: cn=Dipl.-Ing. (FH) Verena Wesselmann-Hinz, o=KIWA MPA Bautest GmbH, ou=KIWA MPA Bautest GmbH, email=KIWA.MPA@kiwa.de, c=DE



## Equipment/machine park:

- Five long-stick excavators
- Four heavy wheeled loader
- Eight automatic welding machines
- Machine pool with all required equipment



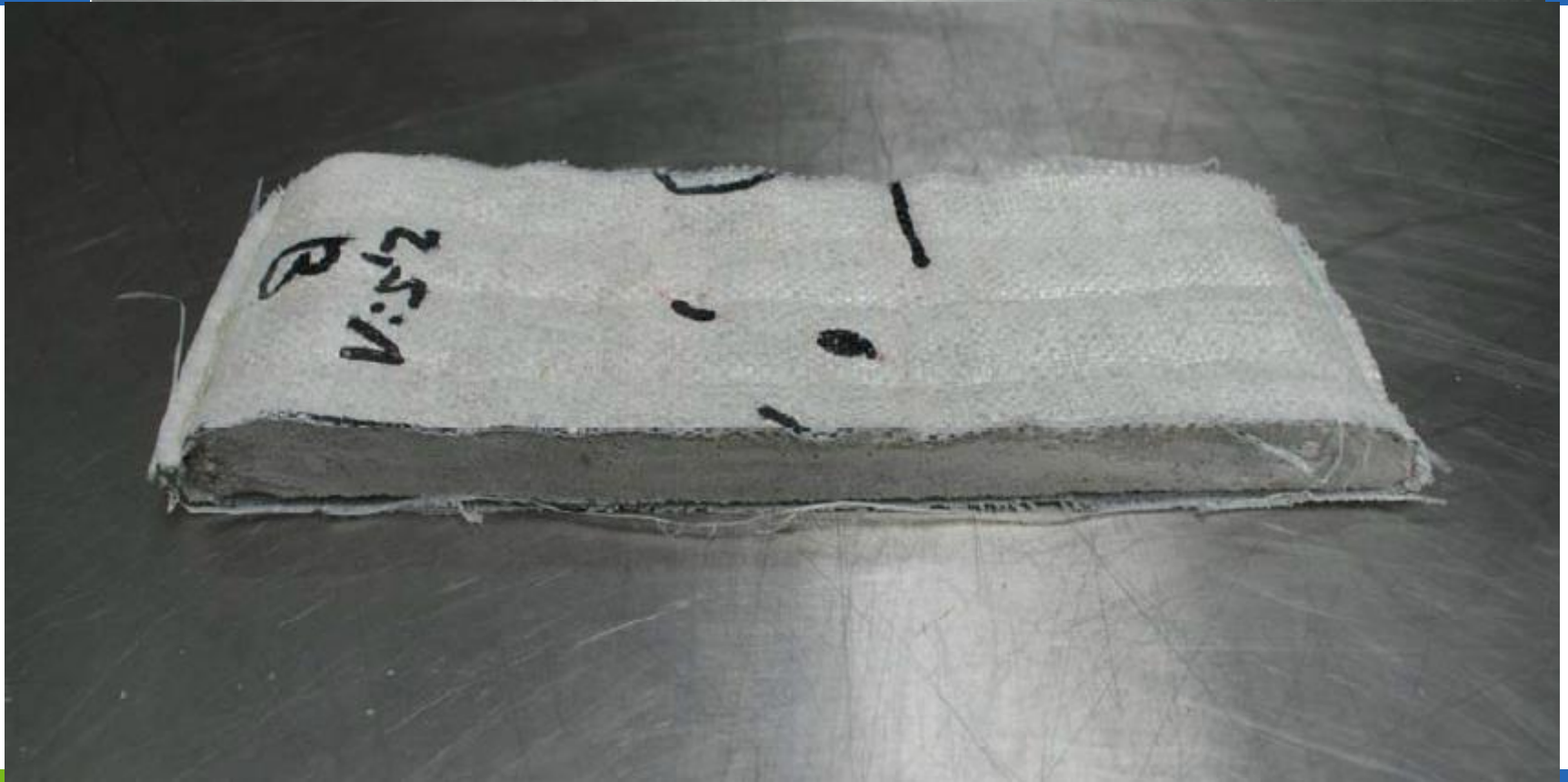
## Services/capacity:

- Yearly training
- Yearly safety training
- Installation of > 600.000m<sup>2</sup> per year
- Around 20 construction sites at same time
- Installation worldwide
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# Possible fields of application



## DuoLiner HGS

Untersuchungen zur Festigkeitsentwicklung



G quadrat Geokunststoffgesellschaft mbH  
Adolf-Dembach-Straße 4a  
47829 Krefeld

erarbeitet durch:  
upi UmweltProjekt Ingenieurgesellschaft mbH  
Breite Straße 30, 39576 Stendal



Hochschule Magdeburg-Stendal  
Fachbereich Bauwesen, Lehrgebiet Baustoffkunde  
Breitscheidstraße 2, 39114 Magdeburg

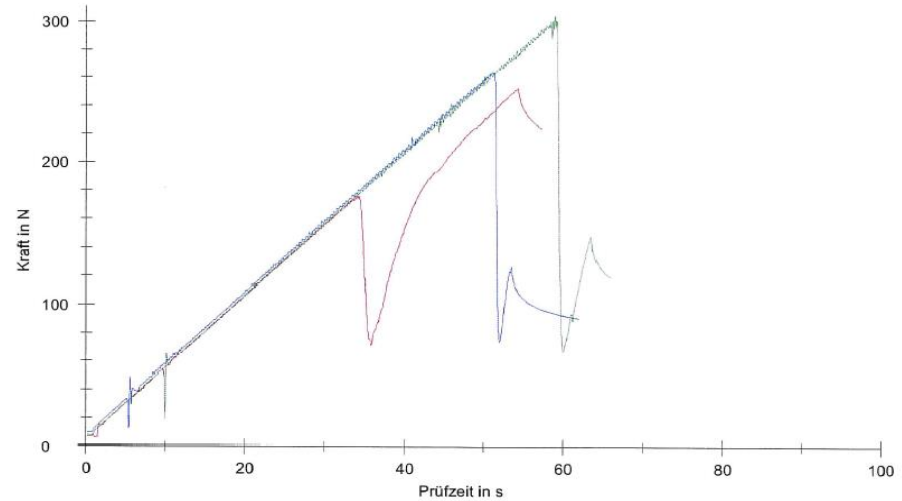


Stand: Juli 2016

### Ergebnisse:

Nr	Probendicke a0 mm	Probenbreite b0 mm	A mm <sup>2</sup>	Rm N/mm <sup>2</sup>	s max mm	F max N
1	25	100	2500	1,45	5,16	252,41
2	25	100	2500	1,75	6,90	304,17
3	25	100	2500	1,52	6,13	263,77

### Seriengrafik:



Abl



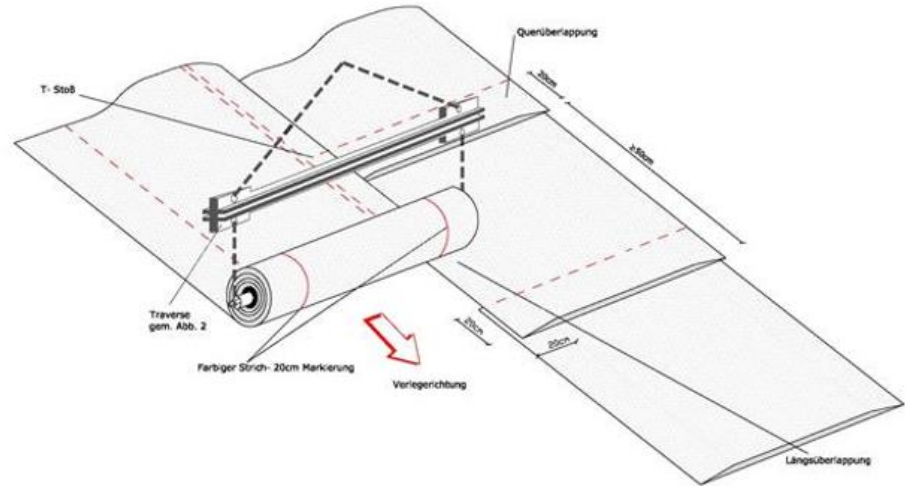


## Installation instruction

DuoLiner – HGS

Stand: 03/07/2017

G quadrat  
Gekunststoffgesellschaft mbH  
Adolf-Dembach-Straße 4a  
47629 Krefeld  
Phone +49 2151 788 83-0  
Fax +49 2151 788 83-33  
info@gquadrat.de  
www.gquadrat.de



Picture 3: Installation of HGS

# Project „Oostelijke“ – Installation process





Thank you!!!