



پژواک PEZHVAC
Research & Innovation Co
پژوهش آینده کاوش سازه های نو

Technical Visit to Companies
Specialized in
CONSTRUCTION & CONCRTE

Belgium - April 2023



SISMO[®]
BUILDING TECHNOLOGY

DE
BONTE
GROUP **THIO**MATERIALS

vdz

Summary of Technical Meetings and Visits to Companies Specialized in The Construction & Concrete Industry Belgium || April 2023

To accomplish its defined goals **PEZHVAC** Research and Innovation Company familiarizes managers in private sectors in the field of **Construction & Concrete** with the newest technologies and Know-how in order to conduct business between Iran and Europe, some technical visits to related companies in **Belgium & Germany** has been held in **April 2023**.

In this business trip, a group of Iranian top-executives and decision makers in Construction Industry have visited the below mentioned companies during the mentioned period:



- **SISMO** (Drapstraat 1, 9270 Laarne, Belgium)
 - **De Bonte Group - Thio Materials Belgium** (ZI Ghlin Baudour Saint-Ghislain)
 - **VDZ -Verein Deutscher Zementwerke** (Toulouser Allee 7140476 Düsseldorf, Germany)
- In the following pages, you may find some detailed information of this technical visit:

- Science & Technology Park of Shahid Beheshti University, Daneshjoo St., Velenjak., Tehran, Iran.
- Reg. Code.:462000
- National code:14004474063

Company	Thio Materials	THIO MATERIALS
Company's Location	Saint-Ghislain, Belgium	
Appointment's Location	Main Office and Production Line	
Field of Activity	<p>Thio Materials is part of the well-established De Bonte Group. De Bonte Group and Thio materials are active in production of different types of Construction Materials and Concrete products and aim to develop new technology and products and increase the efficiency in the Building materials. De Bonte Group's continuous search for innovative solutions led to the development of a revolutionary type of concrete, known as sulfur concrete, which was the main point of discussion in the arranged meeting. In this concrete, cement and water have been exchanged for sulfur as a binding agent.</p>	
Website	<p>https://debontegroup.com/en/ http://www.thiomaterials.com/</p>	



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Meeting with the Experts and Staff of the De Bonte Group – Thio Materials, along with visiting the production line, technologies, and the final products.

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Company	SISMO	
Company's Location	Laarne, Belgium	
Appointment Location	Company's Main Office & Facilities	
Field of Activity	<p>SISMO construction technology is a company 30 years of experience in the development and implementation of SISMO technology and is the first company in the construction sector to receive European Technical Approval (ETA 01/0001). Established in Belgium in 1985, SISMO is a leading player in the establishment of fast, affordable, sustainable and ecological building technology. The main objective of the SISMO group of companies is to react to the challenges present in the modern construction sector within a financially stable professional framework. Through international cooperation and relentless research, SISMO construction technology is already being used in different countries across the world.</p>	
Website	http://www.sismo.eu/	



Visiting Facilities of SISMO to get familiar with the SISMO construction technology and the products that are being used in this system

Discussing the SISMO construction technology with in the main office with the experts and representatives of SISMO

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Company	VDZ	vdz
Company's Location	Düsseldorf, Germany	
Appointment Location	Association's Main Office	
Field of Activity	VDZ (Verein Deutscher Zementwerke e.V.) is the economic, technical and scientific association for the German cement industry. Its aim is to uphold and promote the joint economic interests of the cement industry and to promote technology and science, including pre-competitive research and development in the field of manufacture and use of hydraulic binders. VDZ also participates in the creation and further development of national and international standards and technical regulations on behalf of its member companies. VDZ uses its expertise to convey the technical and economic points of view of Germany's cement manufacturers to policy-makers in Berlin and Brussels, thus supporting the companies in global competition.	
Website	https://www.vdz-online.de/en	



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VDZ (VEREIN DEUTSCHER ZEMENTWERKE)



60% of concrete
=> ready mix, C25
cement: 280 kg/m³
fly ash: 60 kg/m³
1:1.8 + sand (70%)
 gravel (70%)
+ admixtures
+ 140 $\frac{\text{kg}}{\text{m}^3}$ water



Meeting with the Experts and Staff of the VDZ (Verein Deutscher Zementwerke), and discuss the latest information and potentials in the concrete and Construction Industry.