## **BACKES** Group

Accomplishing more together.













Gasthaus Backes-Jhemann



#### The entire value chain of construction from a single source: our strength is your advantage.

The core business of the BACKES Group includes road construction, civil engineering and building construction, the production of construction materials, and transport. We are further active in the automotive sector, operating the TCB Truck Center Backes workshop in Olzheim, and in the catering sector, operating the »Rasthof Zur Schneifel« (rest stop) next to the B 51 in Olzheim and the Gasthaus Backes (restaurant) in Auw. Backes provides the full range of essential services needed to realize private and public construction projects reliably and from a single source.





## Accomplishing more together.

## **BACKES – TRADITION MEETS INNOVATION**

Founded in Auw near Prüm in 1946, the company is firmly rooted in the Eifel region and is headquartered in the commercial area of Stadtkyll. Perseverance, far-sightedness and an active approach to the requirements of the market have brought the Backes family on the road to success over 70 years ago and are still showing today in the healthy and continuous growth of the company. The annual turnover of the BACKES Group amounts to around 50 million euros.

Backes has not been carried away by this entrepreneurial success but has used it as an opportunity to take responsibility: the BACKES Group employs a staff of more than 400 today, and is therefore one of the most important employers in the region.

Ten to fifteen young people receive vocational training each year in nine different occupations, giving them a career perspective – frequently in our own company.





## Accomplishing more together.

## COMPANY

## Operating as a family business since 1946, Backes is providing proof of reliability and spirit in the third generation.

The BACKES Group is a true family business not only with regard to the management; some families among our staff have also worked for the company for three generations.

Working in partnership, reliability and spirit have characterized Backes right from the start. Mutual respect and honesty in dealing with colleagues, business partners and customers make sure that we at Backes always work hand in hand without having to waste many words.





## Accomplishing more together.

## **OUR STRONG BRANDS**

A customer-driven mindset is the philosophy consistently applied in all of the business divisions of the BACKES Group.





The "Backes" name is omnipresent throughout the Eifel, linking industries which, at first glance, have little in common. Their common ground becomes obvious, however, when looking more closely: to be wherever we are needed.











Produce, transport, build, entertain.

#### Dedicated and down-to-earth: a family of entrepreneurs that creates values and jobs.

In founding the BACKES Group, Norbert, Horst, Edith and Thomas Backes successfully continue on the path for which their grandfather, Clemens Backes, laid the foundation more than 70 years ago.

1946

Clemens Backes founded the business. In the early years, we transported wood, dairy and bagged products by truck





## 1975

The sons, Peter and Erich Backes, joined the company. The portfolio was expanded to include civil engineering in addition to transport.





## 1984

marked the acquisition of the first scoria quarry in Ormont.





## 1988

A ready-mixed concrete plant was set up in Ormont.





## 1989

Peter and Erich Backes took over the management of the company after the death of the company founder.

## 1993

The »Rasthof Zur Schneifel« rest stop in Olzheim was built to provide the company with an additional mainstay.







## 2002

The Truck Center Backes was built in Olzheim and the company's fleet of vehicles moved from Auw to the Olzheim location.







## 2004

An asphalt mixing plant was set up in the commercial area of Stadtkyll, and the readymixed concrete plant was relocated from Ormont to Stadtkyll.







## 2007

The children, Norbert, Horst, Edith and Thomas Backes, founded the Backes Group which is managed jointly with Peter and Erich.







2009

The workshop for construction machinery was moved from Auw to Stadtkyll.

## 2011

marked the construction of the office building and a new maintenance yard in Stadtkyll. The entire company moved from Auw to Stadtkyll.





## 2014

Construction of a wood chip heating system with thermal conduction to produce heat for the »Zur Schneifel« rest stop and the TCB workshop.

## 2018

New construction at the »Zur Schneifel« rest stop.







## **BUSINESS DIVISIONS OF THE BACKES GROUP**

#### One of the strengths of our corporate group is our independence in the production and transport of all construction materials and related materials.

Every day, more than 1,000 tonnes of raw materials are quarried, recycled and processed at our production facilities and then transported to their destination by truck; a large number of vehicles and machines are repaired to get them back on track; and hundreds of cups of coffee give new energy to truckers and leisure travellers. That is one more reason why our claim is: "Accomplishing more together."





# Reliable one-stop solutions from a single source.

## From forest road to Grand Prix race track, from single-family home to industrial building.

Our company provides the full range of required or desired services and advises you in detail on your projects.

#### Demolition

An experienced team is available for demolition work, having at their disposal excavators equipped with special grippers and trucks with container bodies to sort the demolished materials according to the different construction materials.

It goes without saying that we guarantee proper disposal of the material including the required proof of disposal and accompanying documentation.





#### **Concrete construction**

For more than 25 years, we have produced ready-mixed concrete for our customers and our own building operations. Our mixing plant achieves high performance rates and is at the cutting edge of technology. We process gravel aggregate and also produce special concretes, steel-fibre reinforced concrete and warm concrete according to customer requirements.

#### The universal construction material of our time: ready-mixed concrete

There is no other construction material which offers greater flexibility in use. All building tasks from foundations to complex structural elements can be solved using ready-mixed concrete. Our fleet of concrete mixer trucks and own concrete pumps give us flexibility in scheduling operations and resources. All of our vehicles are equipped with a swap body system, meaning that they can be operated as both dumpers and mixers, can be converted within an extremely short period of time, and are available for larger pouring sections.





The "Pumi" pump mixer enables us to pump concrete cost-effectively even on smaller projects, as it can provide up to 5 m<sup>3</sup> of concrete in its on-board mixer with each journey to the construction site.

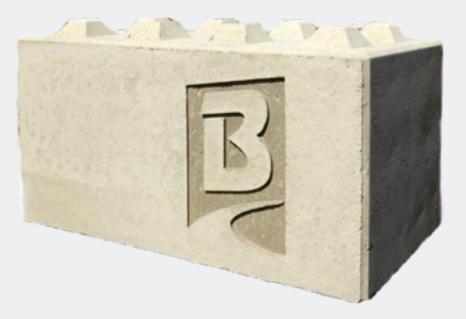


Our own concrete pumps enable us to pour complex construction sites and structural elements conveniently even across larger distances, thus ensuring optimum scheduling of materials both for our customers and for ourselves.



#### Simple and ingenious: the »Backes concrete block«

Our concrete blocks are unbeatable in terms of speed of construction and permit flexible relocation using a telescopic handler and suitable lifting grab. They are used as partition walls for dry-bulk materials and as bunker silo systems and storage bins for animal feed in agriculture.





#### Soil improvement

Soil improvement is used to optimize existing soils so that they meet the requirements of the given construction task; it has become an indispensable part of today's industrial and road construction.

Thanks to a wide variety of different binders (e.g. mixed binders consisting of a mixture of lime and cement), the load-bearing capacity of almost any soil can be improved on a long-term basis, and the soil can even be made frost-proof. The complete exchange of soils which have lost their load-bearing capacity is eliminated, making soil improvement an active contribution not only to reducing costs but also to environmental protection. A soil improved using lime can be processed for a period of many months without ever losing its ideal laying properties, which is of major relevance in particular in sewer construction. We are fully equipped for this field of operation with our own fleet of spreading and milling machines.





#### **Earthworks**

Our company carries out all types of earthmoving operations. We cover the full range of services both for private customers and for commercial and public clients.

Earthmoving operations are closely linked to other specialist areas of civil engineering. They are performed, for example, to prepare the terrain for road construction. State-of-the-art machines, professionally operated by fully qualified expert staff, enable us to handle earthmoving operations ranging from excavation pits and roads all the way to major industrial jobs. Some of our machines are equipped with laser systems as well as ATS and GPS machine control.

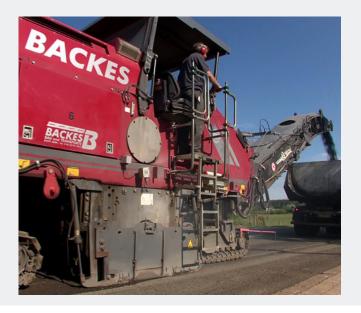




#### **Milling operations**

Milling plays an important role in road construction and is mainly used to remove asphalt road pavements.

Asphalt milling operations are basically required for every road construction project. However, milling is not only necessary for the construction of roads, but also for their maintenance. The technology can be used, for example, to remove a damaged pavement surface and restore the specified skid resistance, which makes it possible to dispense with the complete removal and subsequent new construction of the pavement structure. The use of our own large and small milling machines permits optimum scheduling of operations, which is of major advantage in every respect.





#### **Building construction**

Building construction is concerned with the design and construction of buildings which are mostly above ground.

You are planning to realize such a building? Whether complex commercial construction, public building, warehouse or agricultural facility, whether individual trade, concrete construction or masonry work – we are the right partner for you.

"Backes Bau und Transporte" is your one-stop shop for the turnkey realization of your project including the entire construction work from initial planning to completion.





#### **Sewer construction**

Sewer construction is primarily concerned with the construction and maintenance of public and private drains and sewers; it refers to the creation of closed underground drainage pipelines for wastewater and rainwater drainage. Our range of services includes the construction of complete wastewater treatment plants from earthmoving operations, pipeline construction and concrete construction to the turnkey production of the accompanying operational buildings.





We are your reliable and expert partner also in this civil engineering sector. We install drainage canals and utility provider pipelines in the areas of wastewater treatment plants, municipal sewers, connecting collectors, sewer overflows and domestic connections. Our scope of services also includes cleaning, inspection, leak testing and refurbishment of all types of drains and sewers and of the related structures.

It goes without saying that different trench support systems for securing the sewer trench are part of our working equipment.



#### Agricultural construction

One of our fields of activity is agricultural construction: our expertise and our numerous decades of experience are particularly evident in the construction of agricultural utility buildings.

Whether new construction, conversion or extension: we are there to provide advice and realize your project swiftly from start to finish. From excavations for livestock buildings, the production of bunker silos, the installation of biogas plants and liquid manure tanks including all accompanying concrete works via the new construction of milking parlours all the way to the completed livestock building: Backes Bau is your reliable partner who is familiar with the trade and the special requirements of agricultural businesses.





#### **Paving construction**

Paving construction encompasses all work related to the creation of outdoor facilities, courtyards or open spaces in the private, public and commercial sector.

Whether concrete block paving, natural stone paving or mosaic paving, small or large cobblestone paving: there are virtually unlimited possibilities for the creative design of your outdoor spaces. Many different construction methods have developed over time; use our extensive experience to find the ideal solution that blends in harmoniously with its surroundings. From initial design to final realization – we will supply and install the paving inclusive of all earthmoving, subgrade and drainage operations.





#### Suction excavator

Digging with a shovel and bucket – or using a suction excavator? Our suction excavator is ideal for the efficient and non-damaging excavation of soil in the vicinity of underground pipelines.

The suction excavator can be used, for example, for the quick and economical production of domestic connections. The suction technology permits selective – and thus minimized – excavation of the pit, which considerably reduces follow-up costs.





#### **Road construction**

From bicycle path to motorway – from village street to federal road: we build roads of every category! Roads are still the most important traffic infrastructure today for the transport of both passengers and goods. It is our goal to create safe and durable traffic areas that are as economical and as environmentally sustainable as possible.

The material for developing commercial and residential areas and for upgrading inner-city streets is produced at our own asphalt mixing plant.

Proficient staff is available for these projects, having at their disposal high-performance construction machinery, and we are constantly developing our construction methods to meet the increasing quality and safety requirements.





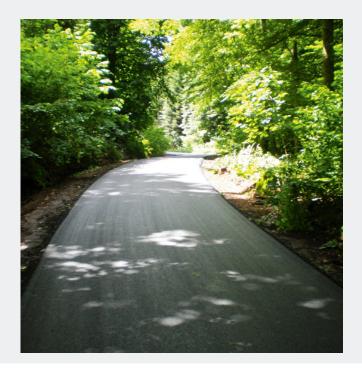
#### Forest road construction

We build or repair a total of approx. 100 km of forest roads every year.

The road structure mostly consists of scoria of particle size 60/120 mm for the subgrade and basalt of particle size 0/32 or 0/16 for the surface layer. We also build forest roads using greywacke at the customer's request.

Forest roads are produced in a wide variety of different profiles and cross slopes – whether camber, central crown or even arched profile. The material is placed, depending on requirements, using a bulldozer, grader or road paver.

We have proven our expertise in forest road construction to many forestry offices in the region.





## Product quality, reliability and flexibility – these are our strengths in the production of construction materials.

In our self-operated quarries, processing and recycling plants, we produce high-quality construction materials, natural stone products and dry-bulk materials. Our state-of-the-art asphalt mixing plant makes us independent of suppliers, enabling us to secure your construction project. Find out more about our construction materials by clicking on the respective menu items.





#### Backes concrete block

The »Backes concrete block« is a fast, flexible and low-cost solution for the construction of partition walls, storage bins, slope stabilization measures, silo walls, storage barns, fences and many more.

#### > FAST

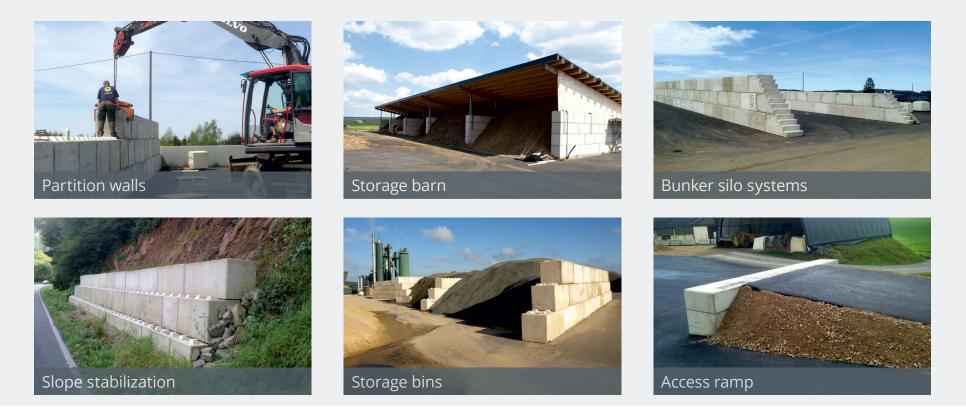
The concrete blocks are available at short notice and will be delivered by our own trucks. For concrete block construction, the only requirement is a level base with sufficient load-bearing capacity. The walls can be used immediately after construction.

#### > FLEXIBLE

The unique shape of the concrete block resembles that of children's building bricks. Each single block can be easily stacked and transported due to the studded design. Concrete partition walls built from the concrete blocks can therefore be adapted or extended at any given time. The top row of blocks can optionally be ordered without the studs, thus enabling it to be used as a walkway or storage space, for example, in the case of a bunker silo. The concrete block is available in all concrete grades from C 20/25 to C 35/45 depending on the intended use.



The »Backes concrete block« offers a wide array of different applications:









#### **Concrete** mixing plant

Ready-mixed concrete is the universal construction material of our time. For more than 20 years, we have produced ready-mixed concrete for our customers and for our own building operations. Our mixing plant is at the cutting edge of technology. We process gravel aggregate and also produce special concretes, steel-fibre reinforced concrete and warm concrete in accordance with customer requirements. We are a member of the Baustoffüberwachungsverein Transportbeton Mörtel Mitte e. V. (Building Materials Inspection Association for Ready-Mixed Concrete and Mortar). Our fleet of mixer trucks and own concrete pump give us flexibility in scheduling operations and resources.





Concrete is produced in the concrete mixing plant using as aggregates sand, gravel, cement and water. The cement content and different types of cement can be used to determine the strength class and quality of the concrete – depending on the intended use, for example, from C 16/20 for foundation concrete up to C 35/45 for the tank of a biogas plant. The concrete is transported to the construction site by means of a truck with concrete mixer.

Our fleet comprises ten trucks which, due to their swap body system, can be operated as both mixer trucks and dumpers. This permits flexibility and the permanent operational availability of our vehicles.

Altogether, we produce about 30,000 m<sup>3</sup> of concrete and hydraulically bound base layer material per year.

#### Plant

GWG Auf Zimmers 27 54589 Stadtkyll Tel.: 0 65 97 / 90 266-200

#### Administration

Auf Zimmers 17 54589 Stadtkyll Tel.: 0 65 97 / 90 266-0







### **Timber processing**

We operate tracked excavators (20 to 25 tonnes) equipped with LAKO harvester heads which are particularly suitable for logging windthrow.

Over the past decades, we have processed several hundred thousand cubic metres of windthrow. We clear forest roads and agricultural roads using our own pole pruner fitted with three saw blades. The cuttings produced can either be stored or loaded by means of a front-end loader.









### Scoria quarries

Relying on a natural stone product means relying on a long-lasting product.

In our scoria quarries, we mine scoria and basalt rock. The materials are crushed and screened to produce the specified grain size using state-ofthe-art processing plants.

- Quality assurance and internal quality monitoring by our own laboratory
- > External quality monitoring: Eifelinstitut Daun
- > Member of: Baustoffüberwachungsverein Hessen – Rheinland-Pfalz e. V. (Building Materials Inspection Association Hesse – Rhineland-Palatinate; BÜV HR), Neustadt/Weinstraße





SCORIA GRADE	FIELD OF APPLICATION
Scoria grade 0/45 and 0/56	Frost blankets in road and paving construction; backfilling of sewer trenches
Scoria grade 30/60 and 60/120	Subsoil improvement and stabilizing layer in civil engineering and road construction
Scoria grade 0/3 and 0/10	Surround of pipelines or cables
Scoria grade 3/8, 8/16 and 16/32	Covering of drainage pipes, pipelines and filter beds







### **Construction materials testing**

It goes without saying that our work and our materials must always meet high quality standards.

To ensure this, some tests have to be carried out within the scope of internal quality monitoring.





#### > Plate bearing test

The plate bearing test is performed on the construction site by means of a load plate. It is used to verify the specified compaction of the placed material. The test is performed by placing the plate bearing tester below a heavy load-testing vehicle such as a truck or an excavator.

#### > Sewer leak testing

We are a member of the Güteschutz Kanalbau e. V. (Quality Assurance Association for Sewer Construction). Numerous tests are required in sewer construction, such as sewer leak testing, degree of compaction of the sewer trench, and leak testing of the manhole structures.

#### > Layer thickness measurement

In asphalt paving, there are different pavement thicknesses which depend on the load applied to the road. To ensure compliance with the specified layer thickness, metal films or small metal plates are placed between the individual asphalt layers. They enable the layer thickness to be measured accurately in the millimetre range using a thickness measurement device. There are three different asphalt layer thicknesses, for example, for a local village road: base course 10 cm, binder course 4 cm, surface course 4 cm.



### **Recycling plant**

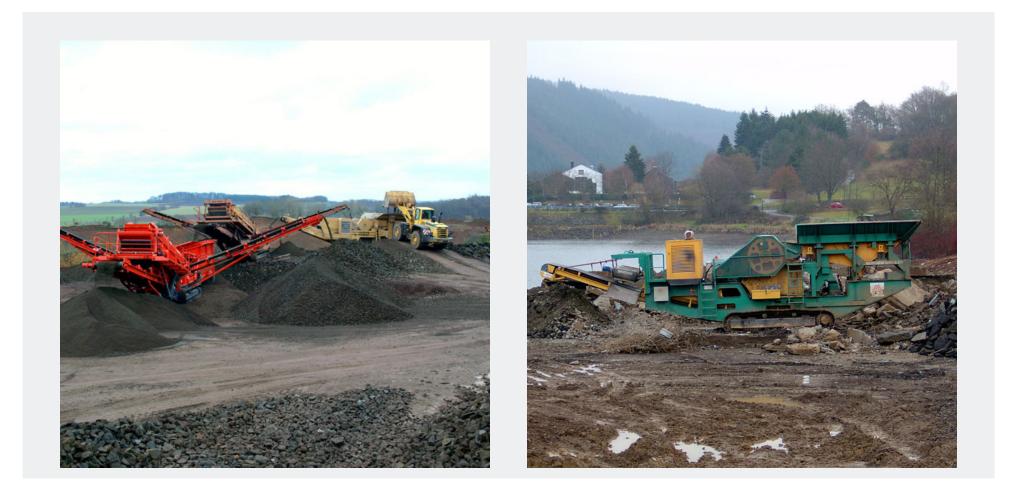
Resource efficiency is important to us. Primary resources such as basalt and gravel are in ever shorter supply. Many construction materials are therefore recycled.

Old asphalt material is frequently reclaimed on site using a milling machine or excavator. At our interim storage location, the milled material is crushed using a mobile crushing plant and mobile impact crusher. A screening machine screens the material into different grain fractions. The granulated asphalt can then be added to virgin asphalt in an amount of up to 30% depending on the asphalt grade.

Demolished concrete is crushed in a crushing plant and reused as recycled concrete for backfilling trenches and as subgrade material. The recycled material is tested for quality and suitability for reuse by means of laboratory testing.









### **Dry-bulk materials**

Our screening machines produce soils, crushed stone and sands in different grain sizes.





We supply the following dry-bulk materials from our own facilities for the production of construction materials, through our recycling plants, or as merchandise:

- > Rhine gravel
- > Cable sand
- Standard-grade and high-grade chippings (basalt or limestone)
- Screened and unscreened topsoil
- > Sub-base gravel





### One of the strengths of our corporate group is our independence in asphalt production.

Our state-of-the-art asphalt mixing plant guarantees speed and flexibility in operation. Adding reclaimed asphalt pavement in hot application is resourceefficient and results in a high-quality asphalt mix.





The asphalt mixing plant produces asphalt for road construction using as raw materials basalt and limestone, as well as moraine rock and quartzite to give the asphalt pavement a lighter colour. The aggregates are mixed with bitumen. The bitumen is stored in tanks at a temperature of approx. 160°C. The aggregates are heated to up to 300°C and dried in the rotary dryer using a multi-fuel burner (pulverized lignite and heating oil). The finished asphalt mix is loaded on trucks at a temperature of 160–180°C and covered with a tarpaulin prior to being transported to the construction site.



The asphalt is used in numerous applications from bicycle paths, municipal roads, federal roads and motorways all the way to the Nürburgring Grand Prix race track. The plant has a mixing capacity of approx. 2,000 tonnes of asphalt per day. The total annual production amounts to up to 150,000 tonnes.



Transport links are very favourable as the plant is located right on the B 51 federal road at the border between North Rhine-Westphalia and Rhineland-Palatinate. We operate the asphalt mixing plant in Stadtkyll in collaboration with our partner, RPBL. Sales and marketing are managed by Basalt Union, Linz.

#### Operation

GWG Auf Zimmers 27 54589 Stadtkyll Tel.: 0 65 97 / 90 266-100

#### Sales and administration

Basalt Union Kölner Straße 22 53489 Sinzig/Rhein Tel.: 0 26 42 / 401-150







# The history of our company begins in 1946 with the transport division.

Our portfolio of transport vehicles ranges from dump trucks to dry-bulk tankers. All of the materials required for construction – whether dry-bulk materials, cement, asphalt, fuel or concrete – can be delivered on schedule by our own fleet.





### **Dump trucks**

Our fleet of dump trucks comprises three-axle, four-axle, semitrailer and tandem trucks which can be used individually in accordance with the area of application and conditions on the construction site.

All of the vehicles used for asphalt transport are fitted with a roll tarp and are sometimes additionally equipped with a heating system to ensure that the asphalt mix retains the specified temperature.





### **Concrete trucks**

Our fleet of concrete trucks is comprised of 6-m<sup>3</sup> mixer trucks, 8-m<sup>3</sup> mixer trucks and 10-m<sup>3</sup> semi-trailer trucks.

All of our vehicles are equipped with a swap body system, meaning that they can be operated as both dumpers and mixers, can be converted within an extremely short period of time, and are available for larger pouring sections. Concrete pumps are available for conveying the concrete from the mixer truck to the pouring site.





### Heavy haulage

Large construction sites need large machines.

We transport oversized construction machines, concrete elements or steel elements both for our customers and our own building operations.





### **Dry-bulk tankers**

We operate our own dry-bulk tankers to transport cement and limestone filler for use in our own concrete and asphalt mixing plants and for soil stabilization.





### **Tankers**

We operate our own fuel tankers to ensure that there is always sufficient fuel available for our vehicle fleet.

In addition to that, we transport diesel, petrol and heating oil for our customer, RSW. In our stainless steel tankers, we transport liquid fertilizers und sewage sludge for our customers.





### Low-loader trucks

We operate several low-loader trucks with a wide variety of different tonnages both for the transport of construction machinery to and from our own construction sites and for transports on behalf of our customers.





### **Container vehicles**

Some of our vehicles are equipped with a dumper / container body.

These containers are used to sort the different types of waste in demolition operations. For minor repairs and rehabilitation work in asphalt operations, we transport the asphalt mix in an insulated container which is able to maintain the temperature of the mix over several hours.





## THE LOCATIONS OF THE BACKES GROUP



## Our locations.

Sellerich (Obermehlen

BACKES

Gruppe

### THE LOCATIONS OF THE BACKES GROUP

### Our office building was raised between 2010 and 2011.

It has 50 rooms and is encased in a 16-cm thick thermal insulation composite system, a thermo roof and thermopane glazing. Fitted with its own photovoltaic system and a heat pump system with direct evaporation, which can both cool and heat, it is energy-efficient and built to ergonomically optimized standards for our employees.





## **Office** building

## THE LOCATIONS OF THE BACKES GROUP

#### Ground floor:

- > Switchboard
- > Surveying department
- Construction materials testing
- > Management of vehicles and staff
- > Plotter room
- > Two conference / training rooms for up to 90 persons
- > Break room
- > Games room

#### First floor:

- > Costing department
- > Materials purchasing
- > Site management
- > Doctor's room

#### Second floor:

- > Accounting department
- > Commercial administration
- Human resources department



## **Office** building

















Thank you very much.