

Project review Bielefeld

## Green roof on newly built canopy at the Jahnplatz square.



# PLANNED, ASSISTED, SOLVED. EVERYTHING TOGETHER.

The Jahnplatz square in the city of Bielefeld in East Westphalia is a central traffic hub, right in the middle of the city. The mobility strategy, covering the period until 2030, approved by the Bielefeld municipal council, defines modern and environmental compatible mobility for a liveable and dynamic future. It is intended as a contribution to climate protection, with car traffic making way for public transport and cyclist and pedestrian traffic. A central project within the scope of the mobility strategy is the redevelopment of the Jahnplatz square. Thus, due to the increased nitrogen dioxide pollution, the municipal development committee decided upon a reduction of motorised private transport at the Jahnplatz and redevelopment of the square: In future, pedestrians, cyclists and bus passengers will have more space.

In the process, a canopy was constructed over the "Jahnplatz" stop. In the spirit of the sustainable concept, it was to be covered with a green roof structure. The metal construction, built and installed by Egoé, had to be protected accordingly. Triflex waterproofing systems, such as **Triflex ProTect** with fleece inlay, provide not only a certified green roof system, but also adhere perfectly to metal. With this in mind, adhesion to galvanised stainless steel was tested in advance internally at the Triflex laboratory. Details, such as the all-round gutter, securants or roof gullies, were also reliably waterproofed with **Triflex ProDetail**. The gravel guard strip at the edge of the roof surface was bonded with **Triflex Cryl Paste**. The fact that this waterproofing was applied during a very cold spring was a further argument in favour of the Triflex systems, which can even be processed at temperatures as low as 0 °C. And, after all, the investor had already had good experiences with the Triflex waterproofing systems on other projects.



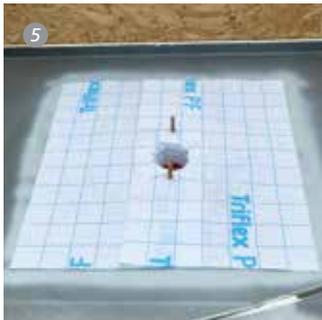
The roof over the "Jahnplatz" stop before and after the new build

**"THE APPLICATION OF THE TRIFLEX SYSTEMS WENT AS PLANNED  
DESPITE THE DIFFICULT WEATHER CONDITIONS.  
THE SUPPORT PROVIDED BY THE TRIFLEX APPLICATIONS ENGINEERING  
DEPARTMENT AT THE CONSTRUCTION SITE WAS VERY GOOD."**

*Marián Ochránek, Egoé plus Site Manager*

## Requirements for the new build at a glance:

- Perfect adhesion to metal
- Application even in cold temperatures
- Reliable waterproofing, even of details, such as gutters, securants and roof gullies
- Certified green roof system



## Refurbishment steps in detail:

- 1 Cleaning of the complete surface with **Triflex Cleaner**
- 2 Filling of the wide joints with PE round sealing band as a joint filler, and taping over with 10 cm of **Triflex duct tape** for an even substrate
- 3 Sealing of the narrow joints and constructional drilled holes in metal with 5 cm of **Triflex duct tape**
- 4 Priming with **Triflex Metal Primer**
- 5 Waterproofing of details with **Triflex ProDetail** in combination with **Triflex Special Fleece**, use of **Triflex ProFibre** in addition for very complex areas
- 6 Waterproofing of the surface with **Triflex ProTect** in combination with **Triflex Special Fleece**
- 7 Additional wearing layer in the gutter with **Triflex ProDetail**

## Benefits of Triflex liquid plastic waterproofing for roof greening:

- Resistant to roots and rhizomes Sustainable waterproofing in accordance with the guidelines of the FLL e. V. (Landscaping and Landscape Development Research Society) and DIN EN 13948.
- Easy, full-surface adhesion to most substrates: highly reliable application in combination with other materials as well.
- Lasting protection of the structure from moisture: Long service life, longer intervals between refurbishments and considerable increase in property value.
- Low net weight of system components: no impact on the structure.
- Fleece-reinforced waterproofing of details, junctions, joints and surfaces: long-lasting waterproofing and maximum safety especially in areas subject to high loads.

Triflex

## There is one thing we always have in common: your problem solved.

As the leading European specialist for PMMA liquid applied waterproofing, there is one thing we have learnt over the past 40 years: having an outstanding product is not enough to solve problems permanently. As a family company, we adopt an entirely different approach here: we always solve problems together.

The unique collaboration between you as the contractors, the planners, our employees and, of course, our products means everyone benefits. We do everything in our power to ensure this. You can always rely on that! Welcome to the Triflex family.



### Project data and application

<b>Project</b>	Canopy over the Jahnplatz stop in Bielefeld
<b>Client</b>	City of Bielefeld
<b>Planners</b>	Architects Wannemacher + Möller GmbH (Bielefeld)
<b>Application</b>	Egoé plus, Bílovice (Czech Republic)
<b>Area</b>	Approximately 1,300 m <sup>2</sup> in two stages (553 m <sup>2</sup> + 727 m <sup>2</sup> )
<b>Substrate</b>	Galvanised stainless steel
<b>Waterproofing</b>	Triflex ProDetail, Triflex ProTect, Triflex ProFibre
<b>Completion</b>	March 2021 to April 2021

© Photos of the Jahnplatz square canopy, City of Bielefeld, Transport Office

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