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TRAVETTO FAHRWEGSYSTEME by HET

Slab track systems as a functional and ecological all-in-one solution

Slab track systems

HET ELASTOMERTECHNIK

Welcome to
HET Elastomertechnik GmbH!

For 30 years we have been producing and selling products made of recycled material. We are convinced that responsibility for our environment is a central concern of our society. With our products we make a valuable contribution in this area.

The TRAVETTO track system has convincing advantages, such as short construction times, long-term durability, flexibility and easy maintenance, and will continue in future to provide an uncomplicated, functional and ecological all-in-one solution for the road-rail interface.

Our products ensure planning security, since the INPLACE-B slab track systems have been tested to DIN EN 13481-5:2012 and have been approved by various TAB test centres for compliance with the technical connection regulations.

When used in combination with our ELTECPUR® rail filler blocks and sub-ballast mats, the INPLACE-B slab track systems meet the most exacting requirements for airborne and structure-borne sound and for electrical insulation.

We provide tailored solutions for your slab track, including engineering with statics and steel lists. If so wished, we can also provide certified static calculations.

To ensure that the work is carried out to the highest standards and to provide on-site support with installation, we could offer the services of our own construction supervisors.

For every challenge there is a solution: on the following pages you will find information on the TRAVETTO system, together with information on the uses to which it can be put.

Yours

Jean-Pierre Frottier, Dipl.-Ing. (ETH),
Managing Director of HET Elastomertechnik GmbH

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TRAVETTO Track Systems

Slab track systems

Increasing traffic volumes, structural changes to towns and communities due to continuous urban spread, lack of parking space, congestion and the hectic rush of daily life are all gradually bringing about a new ecological awareness. As a result, road users are coming to realise the advantages of local public transport and to see it as an attractive alternative.

In view of the increasing traffic in urban centres, rail-bound local transport is a modern, fast and, above all, future-oriented means of travel which greatly helps to create harmonious and environmentally focussed cityscapes. Conventional tracks are often nothing more than objects which serve a purely technical purpose and stick out as foreign bodies in their surroundings. Alternatives are provided by slab track systems which can be used as an intrinsic element of urban design.

Thanks to their low maintenance costs, slab tracks are an extremely economic system which has already been successfully constructed for many years and is state of the art for modern high-speed transport with long-distance trains. Slab tracks are now also being installed for tram traffic, not least of all because of their low maintenance costs.

The TRAVETTO slab track system INPLACE-B offers the ideal solution for these situations. The system is specially tailored for the needs of each individual project, such as urban planning specifications, emission-related requirements and track routing (bridges, tunnels, etc.), and thus ensures the optimum solution in each case.

Your advantages at a glance:

- Low maintenance and upkeep costs
- Safety and durability
- Flexible route planning and reliable track position stability
- Joint use of the slab track by individual traffic on street tracks with asphalt, paving or concrete surfaces
- Creation of more green space with grass tracks
- More favourable airborne and structure-borne sound behaviour thanks to structured grass surface and modern elastic track bedding
- Public drainage system relieved by storage and release of up to 80 percent of the surface water in grass tracks

TRAVETTO Track Systems

INPLACE-B

The INPLACE-B slab track is highly versatile and allows a wide choice of construction forms and surfaces. It can be used for both low-lying and high-lying surfaces, for paving or grass paver surfaces, three-coat asphalt surfaces or in combination with upper concrete and mastic asphalt.

Since INPLACE-B is variable, it can be used for all customary track widths and rail types. The slab track is installed in radii up to 20 metres, as three-rail track with combined widths or as prefabricated track sections for particular sites which have to be completed to a tight schedule, e.g. for tramway crossings or slewing areas.

With the aid of differentiated rail fastening systems, slab track is the right choice even in the case of system stiffnesses with vertical deflections up to 1.4 millimetres.

MAX. SPEED
UP TO
70 km/h

MAX. AXLE LOADS
UP TO
13 t

MIN. CURVE
RADIUS
20 m

INPLACE-B track with high-lying grass surface, ELTECPUR® rail filler blocks and asphalt surface

INPLACE-B track with low-lying grass surface and paving surface

Product features of INPLACE-B slab track

The distinguishing feature of the INPLACE-B system is that it can be quickly and easily installed in site-mixed concrete and in combination with the TRAVETTO rail support.

With its monolithic design (no joints or expansion joints in the beams or the supporting concrete slab), INPLACE-B can be flexibly adapted to the track routing and remains stable even under critical subgrade conditions. The use of rail support blocks adapted to the particular rail type gives the slab track high system stability.

The system also offers many possibilities for adaptation to local conditions and building structures such as platforms, crossings or shafts. A variable elastic rail support can be obtained by using different rail support components – ZW 700, ZW 900 or UTS 300. Installation is possible up to a radius of 20 metres, and even superelevations up to 150 millimetres are feasible.

For one thing, the track width is secured by massive, statically determined transverse steel bars, and for another, INPLACE-B complies with DIN EN 50122-2 and also with the VDV specifications for electrical insulation of the rails.

In addition to all these product features, INPLACE-B in combination with the ELTECPUR® rail insulation systems allows a high degree of planning freedom, not only with track routing but also more particularly with the choice of surface, allowing all imaginable variations such as grass, paving or asphalt.

INPLACE-B rail support block 125 with vignole rail

INPLACE-B rail support block 180 with grooved rail

Major advantages of INPLACE-B slab track

The INPLACE-B slab track system is installed quickly and easily by the top-down construction method. The accuracy standards required for track position, track width and rail inclination can be readily achieved with the aid of the track adjustment and formwork system. Measurements can be carried out directly on the rails, the course of the track can be checked visually during installation. This helps to reduce measurement work to a minimum.

A further advantage is the position of the reinforcement cage and the formwork, which is determined automatically by means of the formwork support. Pre-assembly of individual components is no longer necessary, since the INPLACE-B rail support blocks are already provided in pre-assembled form.

The high degree of mechanisation of the TRAVETTO track adjustment and formwork system together with the top-down construction method for installing the system enable INPLACE-B to be installed even without specialist knowledge in the areas of concrete construction or slab track construction.

Your advantages at a glance:

- Simple system installation
- Easy-to-meet requirements
- Little measuring work
- Defined position of reinforcement cage and formwork
- No pre-assembly of separate components
- No special prior knowledge needed for installation
- ELTECPUR® filler blocks providing insulation tuned specifically for the system
- High cost-effectiveness despite short track possession periods

The installation of INPLACE-B slab track promises high cost-effectiveness despite short track possession periods. This is possible because the tracks are segmented on site, preconcreted as prefabricated parts (up to six metres in length), and after curing transported to the construction site, where they are laid. The exact track position is determined by installing a concrete levelling grout beneath the pre-adjusted track segments.

QUALITY AND SERVICE – OUR KEY TO SUCCESS

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HET ELASTOMERTECHNIK

HET Elastomertechnik GmbH
Hagenauer Straße 53 | 65203 Wiesbaden
Tel: +49 (0)611 50 40 29-10 |
het-group.com | info@het-group.com