

Timcoloc™ Asphalt Fasteners

Temporarily or Permanently Secure:

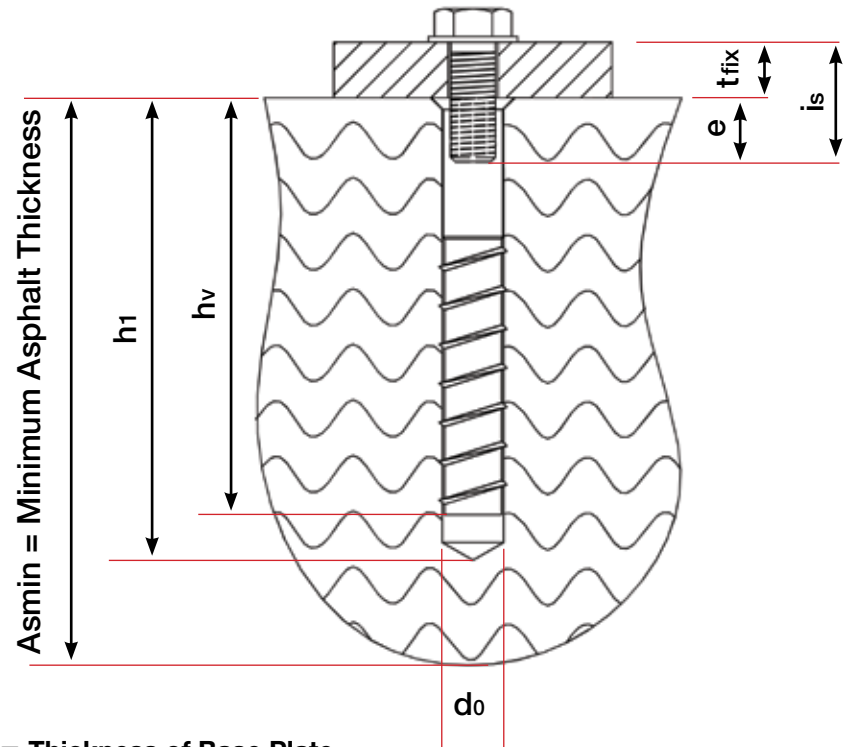
- Barriers
- Tents
- Turnstiles
- Railings
- Bannisters
- Open Street Holes



Timco is pleased to supply North American contractors and construction companies with a new and innovative asphalt anchor bolt fastener system. Our Timcoloc™ fasteners offer a wide variety of functional uses including anchoring steel protection barriers, noise barriers, turnstiles, or for securing a steel plate that covers holes in the street while construction work is in progress. They can also be used to easily stake tents or to install bannisters or railings in asphalt. There are many advantages to using Timcoloc fasteners, including easy installation as well as flexibility to remove after usage is complete. Installation time saving of more than 50% has been documented when using this bolt fastener system versus other anchoring systems.

Timcoloc fastening bolts may also be left in position for easy reuse in the future. Simply place a rubber stopper in the top of the bolts and leave them in your asphalt. Our bolts are made of carbon steel with a surface treatment of zinc aluminum flake that imparts higher corrosion resistance than hot dipped galvanized bolts. Timco can also quote supplying asphalt fasteners made of other materials like stainless steel.

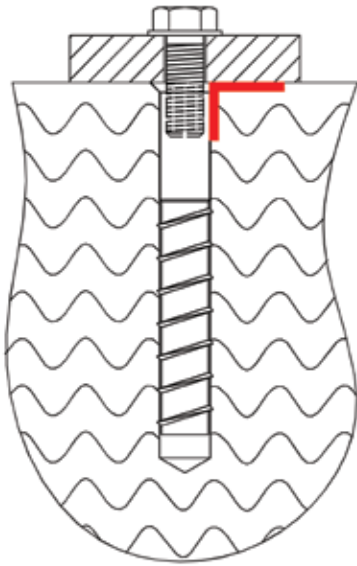
TIMCO



t_{fix} = Thickness of Base Plate

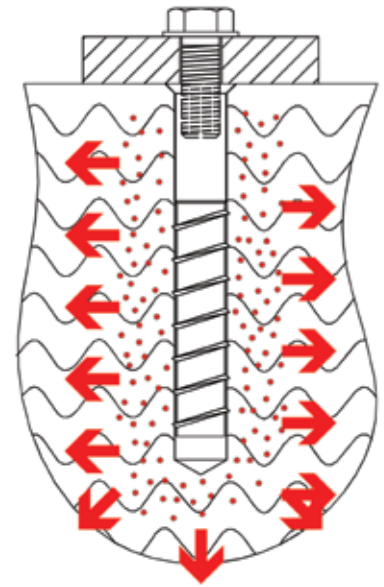
	Timcoloc™ 16 x 100 IM 10 x 20	Timcoloc™ 22 x 100 IM 16 x 30	Timcoloc™ 22 x 155 IM 16 x 30
h_1	4.13" (105 mm)	4.13" (105 mm)	6.30" (160 mm)
h_v	3.94" (100 mm)	3.94" (100 mm)	6.10" (155 mm)
d_0	0.63" (16 mm)	0.87" (22 mm)	0.87" (22 mm)
e	0.59" (15 mm)	0.98" (25 mm)	0.98" (25 mm)
a_{smin}	5.12" (130 mm)	5.90" (150 mm)	7.87" (200 mm)
$i_s = e + t_{fix}$	Bolt Length M10	Bolt Length M16	Bolt Length M16
Tightening Torque of the Metric Bolt	18.5 ft•lbs (25 Nm)	36.9 ft•lbs (50 Nm)	36.9 ft•lbs (50 Nm)
Torque for Timcoloc™ Mounting Bolt	≤ 73.8 Ft. lbs (≤ 100Nm)	≤ 147.5 Ft. lbs (≤ 200Nm)	≤ 221.3 Ft. lbs (≤ 300Nm)
Failure Under Shock Load	6,744 lbs-force (30kN) with epoxy	8,992 lbs-force (40kN) with epoxy	17,984 lbs-force (80kN) with epoxy

Usage Guidelines for Timcoloc™ Asphalt Fasteners



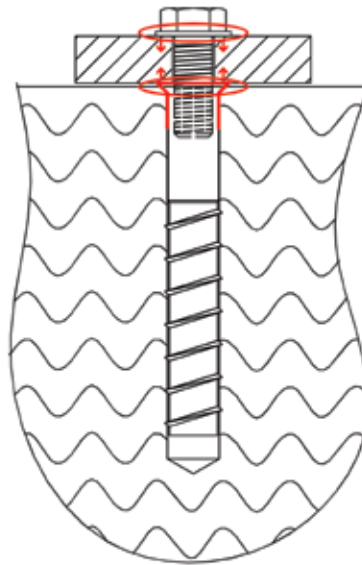
The 90° Principle

The collar of the Timcoloc™ fastener needs to be attached to the base plate at a 90° angle.



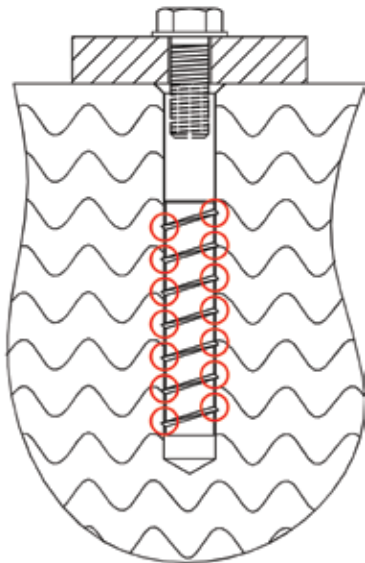
Epoxy Fills Voids

The air voids in the asphalt are injected with epoxy using the Timcoloc™ fastener as a hydraulic ram.



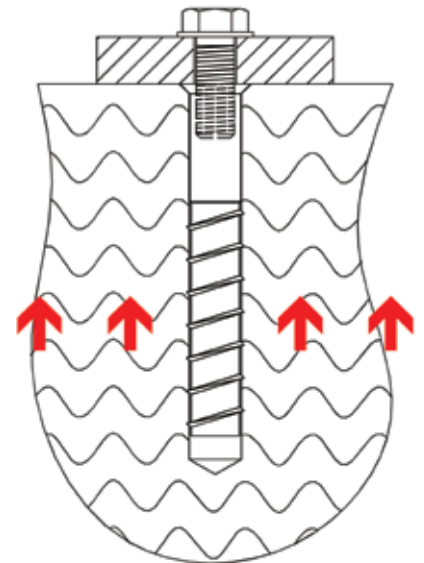
Anchoring Without Preloading

The collar of the Timcoloc™ fastener is larger than the through hole in the base plate to be attached. The base plate is pressed between the Timcoloc collar and the fixing screw. The anchor remains unloaded until an impact.



Undercut

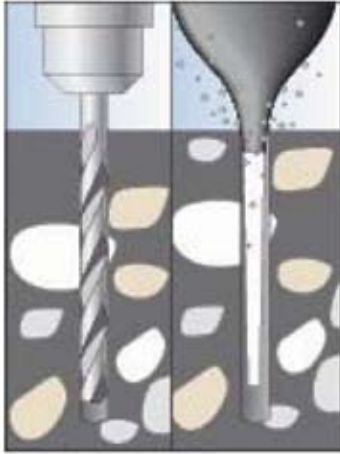
Turning in the Timcoloc™ fastening bolt generates a uniform lock.



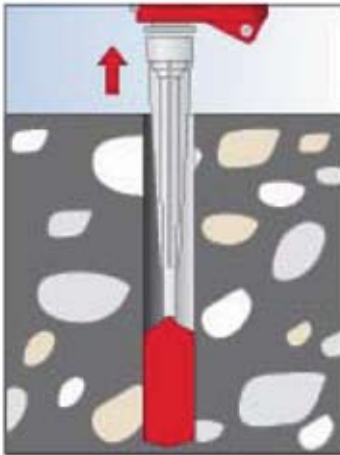
Large Support Area

Epoxy seepage into the asphalt, creates a large area of support to absorb shock load.

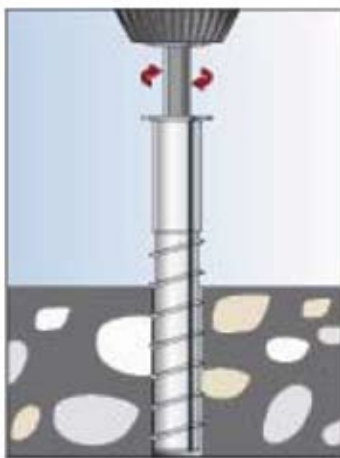
Installation Instructions for Timcoloc™ Fasteners



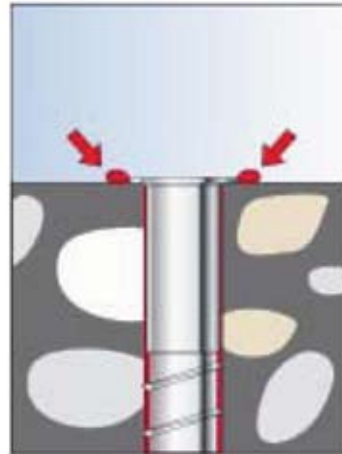
1. Set and clean the drill hole.



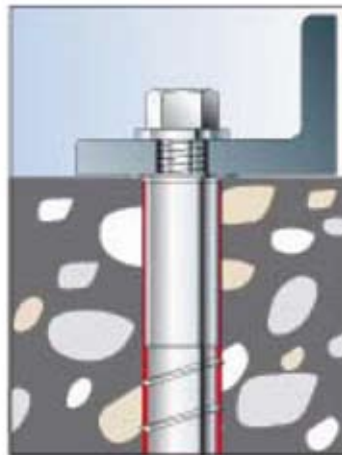
2. Inject epoxy.



3. Screw the bolt into position.

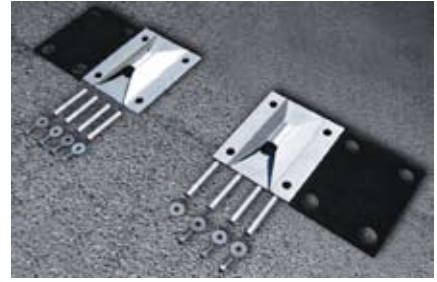


4. Make sure screw is flush with the surface and epoxy exits the top of the drill hole.



5. Attach fixture.

Common Uses for Timcoloc™ Asphalt Fasteners



Items you will need to install Timcoloc™ Asphalt Fasteners:



Fasteners

Epoxy

Epoxy gun

12 mm Hex Bit Socket Driver

Timco Can Custom Fabricate Nylon Collar Plates for Timcoloc™ Fasteners

Timco's main business is fabricating plastic components like sheaves, bearings, cribbing plates. As a result, Timco is capable of fabricating nylon road transition collar plates or washers for the top of Timcoloc anchor bolts. Nylon creates an ideal smooth and durable surface for these heavy duty industrial applications.

TIMCO

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An ISO 9001:2008 Certified Company



If in addition to asphalt fasteners you need other fabricated wear or structural plastic components, please contact Timco for a quotation.

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