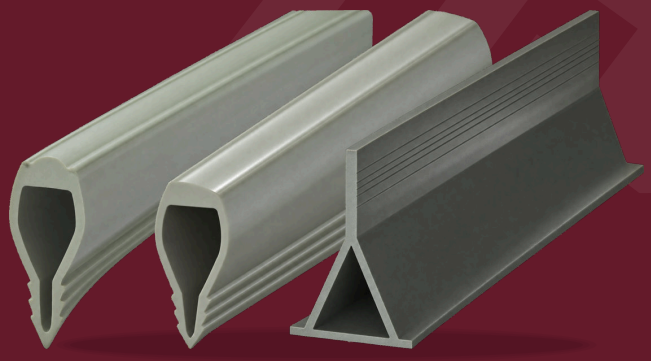
UNIJOINT CRACK INDUCER

PVC CRACK INDUCER FOR CONCRETE SLABS
TOP CI-T | BOTTOM CI-B



Product Features

UNIJOINT CRACK INDUCER is an extruded PVC profile used to form a planned contraction joint in a concrete slab. It weakens the slab along a straight line, so that the shrinkage crack forms along the inducer instead of at random.

Two types are available. The **top crack inducers CI-T 30 and CI-T 50** are pressed into the fresh concrete along a string line, with the head finished flush with the slab surface. The CI-T head is topped with soft grey EPDM. The **bottom crack inducer CI-B 75** is set on the lean concrete along the joint line before the pour and is cast into the slab.

Use either a top or a bottom crack inducer at a joint, not both. Crack inducers are not structural expansion joints.

Advantages

- **Planned Crack Line:** Controls where the shrinkage crack forms in the slab.
- **Top or Bottom Type:** CI-T pressed in from the top; CI-B cast in from the bottom.
- **Quick to Install:** CI-T is pressed into fresh concrete along a string line.
- **Neat Finish:** CI-T head sits flush with the slab surface, topped with soft grey EPDM.
- **Barbed Tail:** CI-T barbed tail grips the concrete.
- **Light & Easy to Handle:** PVC profile supplied in 2.5 m lengths.

Fields of Application

Concrete Ground Slabs	Industrial & Warehouse Floors
Car Park & Driveway Slabs	Podium & Roof Slabs
Screeds & Mortar Beds	Pavements & Hardstandings

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UNIJOINT CRACK INDUCER

Profile Selection

Code	Position	Colour	Height	Width	Length	Packing
CI-T 30	Top	Light grey	30 mm	9 mm	2.5 m	50 pcs / box
CI-T 50	Top	Dark grey	50 mm	15 mm	2.5 m	10 lengths / ctn
CI-B 75	Bottom	Dark grey	75 mm	60 mm (base)	2.5 m	10 lengths / ctn



CI-T 30



CI-T 50



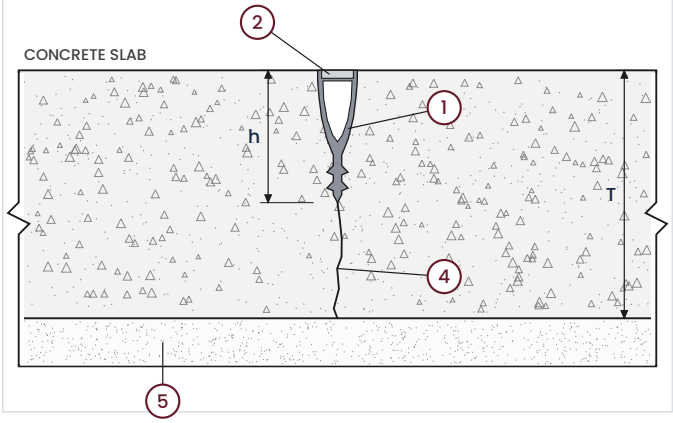
CI-B 75

Physical Properties

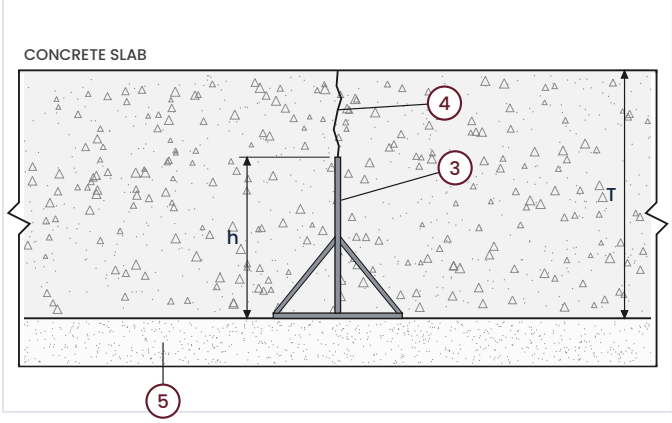
Property	Value
Material	PVC
CI-T Head	Topped with soft grey EPDM
Standard Length	2.5 m per length

Typical Drawings

1 TOP CRACK INDUCER CI-T — Not to scale



2 BOTTOM CRACK INDUCER CI-B — Not to scale



LEGEND

1. UNIJOINT® CI-T 30 / CI-T 50
2. Soft grey EPDM top
3. UNIJOINT® CI-B 75
4. Induced crack
5. Lean concrete (by others)

T = slab thickness h = inducer height, not less than T/4 unless the consultant directs otherwise.

Illustrations only – not for construction. Refer to drawing UR-JT-03.

This technical data sheet is given in good faith and does not guarantee the application work. All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the user's responsibility to obtain the latest version of the information required.

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Installation Procedures

1 Setting Out | 2 Cutting & Jointing | 3 Bottom CI-B 75 | 4 Top CI-T 30 / 50 | 5 Finishing & Curing

Installation Procedures

Step 1

SETTING OUT

Mark the joint layout given by the consultant on the formwork or edge forms, so that the joint lines can be set out with a string line during the works.

Use either a top crack inducer (CI-T) or a bottom crack inducer (CI-B) at a joint, not both. Select an inducer height (h) of not less than one quarter of the slab thickness (T), unless the consultant directs otherwise.

Step 2

CUTTING & JOINTING

Cut the inducer to length with a fine-tooth saw or a sharp knife, square to the profile.

Butt the lengths tightly end to end so that the joint line is continuous, with no gaps. At joint intersections, cut the profiles neatly so that they meet without gaps.

Step 3

BOTTOM INDUCER CI-B 75

Before the slab is poured, set **CI-B 75** on the lean concrete along the joint line, upright, with its base flat on the lean concrete.

Hold it in place with packs of mortar on both sides at intervals, so that it cannot move or tilt during concreting.

Place the concrete beside the inducer, not directly onto it, and compact carefully, keeping it upright and on line. It is cast into the slab and the crack runs up from it to the surface.

Step 4

TOP INDUCER CI-T 30 / CI-T 50

Place, compact and level the slab concrete as normal.

While the concrete is still fresh, set a string line along the joint and press **CI-T 30** or **CI-T 50** vertically into the concrete, barbed tail first, until the head is flush with the finished slab surface.

Re-compact and close the concrete against both sides of the inducer, then check that it is straight, vertical and level along the full joint.

Step 5

FINISHING & CURING

Finish the slab surface up to the inducer without displacing it or covering the CI-T head with mortar. Clean the head before the concrete sets.

Cure the slab as normal. The shrinkage crack forms along the inducer as the slab dries.

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