



T-SADDLE MULTI

COUPLINGS & SEALS

Saddles for multimaterial branches, multicollectors.

- All in one : a single part number for several collector DN's.
- All collectors : corrugated or smooth.
- Watertightness : up to 0,5 bar with angular deviation of 10°.

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T-SADDLE MULTI

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→ INTRODUCTION

AREA OF USE

The **T-SADDLE MULTI** is a multimaterial saddle for making branches on all gravity drainage networks (sewerage and rainwater) and on all types of collector, corrugated or smooth (PVC, PP, GRP, cast iron, clay, concrete).

It consists of a lower saddle and an upper saddle made of fibreglass-reinforced isophthalic polyester resin, AISI 304 stainless steel clamps, bands and clamping heads, as well as a foam seal and a compact 60 Sh EPDM body.

Thanks to its internal sealing system and perforated band clamping system, the **T-SADDLE MULTI** seals collectors of different DN.



PVC/PP



PRV



Cast iron



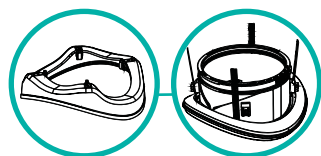
Clay



Concrete



Corrugated PE



UPPER SADDLE LOWER SADDLE

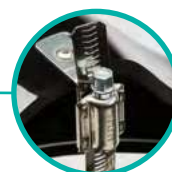
SADDLES

made from fibreglass-reinforced isophthalic polyester resin.



MULTIMATERIAL BRANCH OUTLET WITH STOP

made from compact 60 ShA EPDM.
Thanks to multimaterial **NORHAM FLEXIBLE COUPLING** technology.



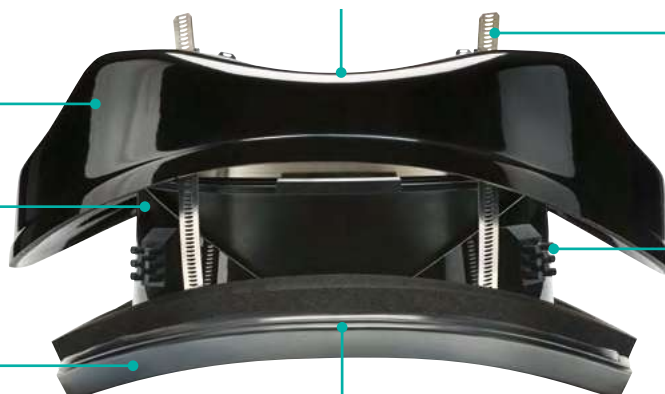
PERFORATED BAND CLAMPING SYSTEM

made from AISI 304 stainless steel, suitable for all collector thicknesses up to 70 mm.



NON-DISCHARGING SYSTEM IN THE PIPE

Small footprint.
Drilling tolerance of 0 ± 10 compared with the nominal drilling diameter.



EASY TO INSTALL
EPDM centring and retaining pins for easy installation of **T-SADDLE MULTI 250** in the collector (tab system for **T-SADDLE MULTI 300**).



WATERTIGHTNESS SYSTEM

Using an EPDM foam seal on the inside wall of the collector ("pressure cooker" principle).

PATENT NUMBER : 3324093

FRENCH
design and manufacture

NEW NEW REFERENCE : T-SADDLE MULTI 300

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TECHNICAL DATA

- Operating pressure : 0.5 bar (5 mWG).
- Angular deviation : $\pm 10^\circ$
- Multimaterial fittings : corrugated PE, PVC, PP, HDPE, GRP, cast iron, fibre cement, steel, clay, and concrete.

PRESSURE RESISTANCE AND ANGULAR DEFLECTION

Pressure resistance : meets the requirements of standard NF-EN 476⁽¹⁾ :

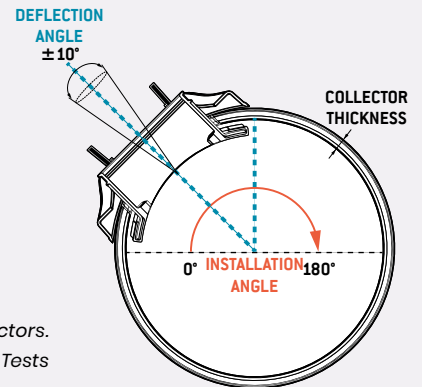
- Tightness resistance 0,5 bar = pression service (PS)⁽²⁾ ;
- Angular deviation : $\pm 10^\circ$.

Angular déviation :

- Test pressure : 0,5 bar x 1,5 (safety factor) = 0,75 bar ;
- Angular deviation under test conditions : $\pm 15^\circ$.

(1) NF-EN 476: general requirements for components used for sewerage connections and collectors.

(2) Subject to the condition of the surface of the inside wall of the collector and its coring. Tests carried out in-house, test reports available on request, please contact us.

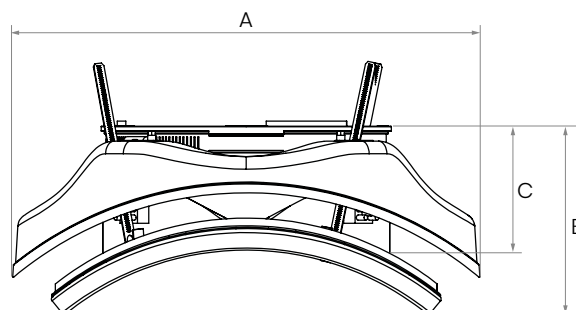


MATERIALS

- Upper and lower saddles : made from fibreglass-reinforced isophthalic polyester resin. ;
- Clamp, bands and clamping heads: made from AISI 304 stainless steel ;
- Body and retaining lugs : EPDM compact 60 Sh. ;
- Seal : closed-cell EPDM foam.

T-SADDLE MULTI RANGE

REF.	OUTPUT RANGE	MAIN PIPE COLLE.	Ø EXT. COLL.	DEFLECT. ANGLE	INSTALL. ANGLE	MAIN PIPE MAX. WIDTH	DRILLING Ø	W _p	DIMENSIONS			CLAMPING BANDS NB
									A	B	C	
TFLEX250MULTI	225-250	400-800	400-970	90° ±	0° à	70	320-330	0,5	452	180	120	4
TFLEX300MULTI	290-315	500-1200	500-1400	10°	180°	135	354		522	255	140	6



T-SADDLE MULTI RANGE
See page 6 or watch the assembly video using the QR code or visit www.norham.fr



T-SADDLE MULTI

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→ INSTALLATION

T-SADDLE MULTI saddles can be installed very quickly.

No special preparation is required before installation. Simply cleaning out the pipe is sufficient.



TO WATCH THE ASSEMBLY VIDEO,
SCAN THE QR CODE.

TOOLS REQUIRED (NOT SUPPLIED)

- Tools required (not supplied)
- Core drill and crown Ø 320 to 354 mm
- Screwdriver (recommended with 8 mm socket)
- Spanner Ø 8 mm
- Screwdriver
- Tape measure
- Brush and lubricant
- Marking tools (felt-tip pen, etc.)

SUMMARY OF INSTALLATION INSTRUCTIONS SUPPLIED WITH T-SADDLE MULTI



1 Drill and check the \varnothing of the core and the condition of the inner surface of the collector⁽¹⁾.



2 Locate the centring pin for the core.



3 Fold the lower saddle in half and insert it into the collector.



4 Refit the body in the core.



5 Align the marks and centre the saddle body.



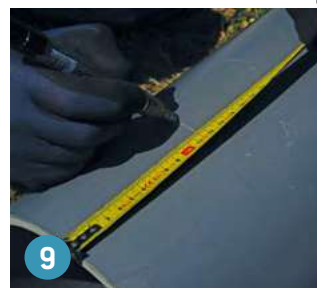
6 Place the upper saddle on the lower saddle and insert the bands into the clamping heads (with a screwdriver).



7 Tighten the bands (recommended torque : 3 Nm to 5 Nm, crosswise). Screw in 3 cm increments.



8 Make sure the seal is flush with the inside wall of the collector.



9 Make a mark 120 mm from the end of the branch pipe.



10 Insert the branch pipe up to the mark and tighten to the specified torque (10 Nm).



(1) For cast iron pipes: if necessary, before fitting, apply a suitable coating to seal around the core hole.
Example : EUROKOTE 4820 resin (consult us).

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→ CASE STUDY



1 LUXEMBOURG : TEST VALIDATED FOR THE NEW T-SADDLE MULTI

CONDITIONS	
SITE	New Schroeder & Associés building, Kockelscheuer, Luxembourg.
NEED	Watertight connections must be made between the new networks (PP pipe, DN 250) and the existing gravity collectors (corrugated PE pipe, DN 400).
SOLUTION	Installation of a T-SADDLE MULTI DN 250 saddle to seal DN 250 PP pipes to a DN 400 corrugated PE collector.



LÉGENDES

1

Installation of T-SADDLE MULTI 250 on a corrugated PE collector.

2

The T-SADDLE MULTI 250 is now installed. The T-saddle allows watertight connections to smooth and corrugated collectors. The T-saddle is watertight up to 0.5 bar and withstands angular deviations of up to 10°.

GESTION DU PROJET

PROJECT MANAGEMENT :
Schroeder & Associés

FITTER : Soludec



Find all our case studies on our website : www.norham.fr

→ OTHER NORHAM SOLUTIONS

T-SADDLE



Saddles for multimaterial branches for all smooth pipes from DN 100 to DN200.



DOWNLOAD DOCUMENTATION



N O R H A M



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