

## Lateral Connections

Additional outlets for main pipes:  
A suitable solution for every application



We introduce:

# Lateral Connections

Fernco is an innovative developer of saddles that connect pipes laterally to a main pipe. We can provide a solution for almost any application.

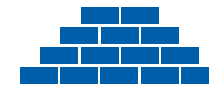
- no adhesive, sealant or concrete required
- no factory-made outlet required
- reduces material and labour costs
- greatly increased placement possibilities
- multiple connection options in combination with other Fernco products
- small and lightweight, easy to transport and quick to install
- Installation independent of weather conditions
- durable thanks to high quality materials



## Industries:



House building



Construction industry



Road construction



Infrastructure



Maintenance



Domestic services

# A change for the better

Due to their flexibility and minimisation of effort, Fernco connection elements offer a wealth of advantages over the installation of factory-made outlets. This greatly simplifies the work from procurement to the construction site.

## Cost savings:

- One person is sufficient to perform the work.
- instead of a special pipe branch: only one saddle is needed

## Worker Safety:

- low weight
- no lifting gear required to remove the pipe and lift the new connection into place

## Time savings:

- reduced excavation time
- reduced installation time

## Safety:

- The pipe bed and surrounding material remain untouched.
- excavation only up to the connection point

## Products where the pipe bedding does not need to be removed:

FA-Saddles: ☒ PA-Saddle: ☒ Storm-T: ☒ TA-Saddle: ☐ UA-Saddle: ☒



## Flexibility:

- installation in any position along the upper half of the main tube.
- The added flexibility allows you to choose the most effective positioning.

|                             | <br>FA-ST<br>page 6 | <br>FA-UNI<br>page 8 | <br>FA-B<br>page 10 |                                                                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| main pipe                   | Clay<br>DN 250N – 350H,<br>or 200VT – 300VT                                                            | Concrete*/Clay<br>from DN 250**                                                                         | Concrete*<br>DN 300 and more                                                                           |                                                                               |
| wall thickness<br>main pipe | 22 – 50 mm                                                                                             | min. 23 mm                                                                                              | 50 – 150 mm                                                                                            |                                                                               |
| lateral pipe                | Any DN 150 pipe<br>except concrete<br>(with bushes)                                                    | Any DN 150 pipe<br>except concrete<br>(+ Multibush, if needed)                                          | <b>FA150B:</b><br>Any DN 150 pipe<br>except concrete<br>(+ Multibush, if needed)                       | <b>FA200B:</b><br>Any DN 200 pipe<br>except concrete<br>(single DN 225 pipes) |

\* Additional sealant against corrosion is recommended for the core bore before installing the saddle.

\*\* If required, FA150B can be connected to larger pipes as an alternative to FA150U.

|                             | <br>Storm-T<br>page 12 | <br>PA<br>page 16 | <br>UA<br>page 18 |
|-----------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| main pipe                   | plastic pipes<br>DN 250 – 600                                                                              | plastic pipes<br>DN 300 – 600                                                                         | double-walled<br>pipes from DN 700                                                                    |
| wall thickness<br>main pipe | 5 – 60 mm                                                                                                  | on request                                                                                            | 30 – 122 mm                                                                                           |
| lateral pipe                | Any DN 150 pipe                                                                                            | DN 160 plastic pipes<br>(Side pipe adapters available for<br>connecting different sizes/materials)    | Any DN 150 pipe<br>(in combination with a<br>Fernco coupling)                                         |

## Saddle FA-ST

### Connecting to DN250N – 350H and 200VT – 300VT



#### Lateral Pipe Bushes Configuration

| OD lateral pipe | Bush    | Material Lateral Pipe                       | Illustration    |
|-----------------|---------|---------------------------------------------|-----------------|
| 160 – 166 mm    | B12/160 | DN 150 cast iron (SMU, SML), 160 mm plastic |                 |
| 170 – 177 mm    | B08/170 | DN 150 cast iron, Ultra-Rib                 |                 |
| 178 mm          | B04/178 | structured pipes                            |                 |
| 180 – 190 mm    | none    | clay                                        | <br>none needed |

The FA150ST saddle is suitable for the lateral connection of vitrified clay pipes to vitrified clay main pipes DN 250 N/H, 300 N/H as well as to vitrified clay jacking pipes DN 200, DN 250 and DN 300.

In connection with bushes, all other types of DN 150 pipes can be connected, e.g.:

**PVCu, cast iron, GRP, ductile iron, HDPE, PP**

|                                 |                                                                       |
|---------------------------------|-----------------------------------------------------------------------|
| Product Name                    | Saddle FA-ST                                                          |
| Product Group                   | Lateral Connections                                                   |
| Product Code                    | FA150ST                                                               |
| Materials                       | EPDM elastomer, ABS and PP plastics, V2A 1.4301 (304) Stainless Steel |
| Pressure Rating                 | 1 bar / 14.5 PSI                                                      |
| Vacuum                          | -0,25 (-0.3) bar                                                      |
| Vertical Load                   | 20 kN / approx. 2 t                                                   |
| Connecting to                   | Vitrified Clay Pipes                                                  |
| Standards                       | EN 681-1<br>CE                                                        |
| Temperature Range               | -50 to 80 °C constant, 100 °C intermittent                            |
| UV Resistant                    | ✓                                                                     |
| Oil / petrol Resistance         | ✗                                                                     |
| Fire Performance                | Class F                                                               |
| Soil Suitability                | ✓                                                                     |
| Flush-mounted suitability       | ✓                                                                     |
| Tensile Strength                | ✗                                                                     |
| Lateral Pipe Deflection         | 5°                                                                    |
| Deformation                     | 5 %                                                                   |
| Jetting Resistance              | 180 bar                                                               |
| Tightening Torque               | 6 Nm                                                                  |
| Requirements for the main pipes |                                                                       |
| Pipe Size                       | Clay DN 250N – 350H<br>Jacking Pipes 200 VT – 300 VT                  |
| Wall Thickness                  | 22 – 50 mm                                                            |
| Drilled Hole Size               | 172 mm (+1 / -0 mm)                                                   |



Technical data sheet available  
at [www.fernco.de/en](http://www.fernco.de/en)

# Universal Saddle FA-UNI

## Connection to vitrified clay/concrete from DN 250



### Configuring the spacer rings

| main pipe    | rings needed | wall thickness | lateral pipe                                                 | illustration       | Component parts |
|--------------|--------------|----------------|--------------------------------------------------------------|--------------------|-----------------|
| 170 – 177 mm | 2            | 23 – 40 mm     | Any DN 150 pipe (might need Multibush depending on material) |                    |                 |
| 178 mm       | 1            | 40.5 – 53 mm   | Any DN 150 pipe (might need Multibush depending on material) |                    |                 |
| 180 – 190 mm | none         | 53,5+ mm       | Any DN 150 pipe (might need Multibush depending on material) | <br>no ring needed |                 |

### Configuring the Multibush on the lateral pipe

| OD lateral pipe | Compensation by Multibush | material lateral pipe                   | illustration    | Multibush 4 – 12 mm |
|-----------------|---------------------------|-----------------------------------------|-----------------|---------------------|
| 160 – 166 mm    | 12 mm: folded             | DN 150 cast iron (SMU, SML), 160 mm PVC |                 |                     |
| 170 – 177 mm    | 8 mm: large end           | DN 150 cast iron, Ultra-Rib             |                 |                     |
| 178 mm          | 4 mm: small end           | structured pipes                        |                 |                     |
| 180 – 190 mm    | none                      | clay                                    | <br>none needed | Product code: MB150 |

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| Product Name                    | Unisaddle FA-UNI                                                  |
| Product Group                   | Lateral Connections                                               |
| Product Code                    | FA150U                                                            |
| Materials                       | EPDM elastomer<br>V2A 1.4301 (304) Stainless Steel<br>ABS Plastic |
| Pressure Rating                 | 1 bar / 14.5 PSI                                                  |
| Vacuum                          | -0.25 (-0.3) bar                                                  |
| Vertical Load                   | 20 kN / approx. 2 t                                               |
| Connecting to                   | Clay/Concrete from DN 250                                         |
| Standards                       | EN 681-1<br>CE                                                    |
| Heat resistance                 | -50 to 80 °C constant, 100 °C intermittent                        |
| UV Resistance                   | ✓                                                                 |
| Oil / Petrol Resistance         | ✗                                                                 |
| Fire Performance                | Class F                                                           |
| Soil Suitability                | ✓                                                                 |
| Flush-mounted suitability       | ✓                                                                 |
| Tensile Strength                | ✗                                                                 |
| Lateral Pipe Deflection         | max. 7°                                                           |
| Deformation                     | 5 %                                                               |
| Jetting Resistance              | 180 bar                                                           |
| Tightening Torque               | 6 Nm                                                              |
| Requirements for the main pipes |                                                                   |
| Pipe Size                       | from DN 250                                                       |
| Wall Thickness                  | min. 23 mm                                                        |
| Drilled Hole Size               | 172 mm (+1 / -0 mm)                                               |



Technical data sheet available at [www.fernco.de/en](http://www.fernco.de/en)



Installation video on YouTube: [youtu.be/iYkupjijtChO](https://youtu.be/iYkupjijtChO)

## Saddle FA-B

### Connecting to Concrete: One Saddle for all Wall Thicknesses



**FA150B:** Lateral Pipe Multibush Configuration

| OD lateral pipe | Multibush       | Material Lateral Pipe                       | Illustration    |
|-----------------|-----------------|---------------------------------------------|-----------------|
| 160 – 166 mm    | 12 mm: folded   | DN 150 cast iron (SMU, SML), 160 mm plastic |                 |
| 170 – 177 mm    | 8 mm: large end | DN 150 cast iron, Ultra-Rib                 |                 |
| 178 mm          | 4 mm: small end | structured pipes                            |                 |
| 180 – 190 mm    | none            | Vitrified Clay                              | <br>none needed |



**FA200B:** Lateral Pipe Multibush Configuration

| OD lateral pipe | Multibush   | Material Lateral Pipe                               | Illustration    |
|-----------------|-------------|-----------------------------------------------------|-----------------|
| 200 – 208 mm    | MB200       | 200 mm plastic                                      |                 |
| 210 – 230 mm    | up to MB200 | DN 200 cast iron (SML, SMU, Ensign)                 |                 |
| 231 – 250 mm    | none        | DN 200 clay; (DN 225 Ultra-rib / Quantum / plastic) | <br>none needed |

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Product Name              | Saddle FA-B                                                     |
| Product Group             | Lateral Connections                                             |
| Product Code              | FAXXXB                                                          |
| Materials                 | EPDM elastomer, ABS plastic<br>V2A 1.4301 (304) Stainless Steel |
| Pressure Rating           | 1 bar / 14.5 PSI                                                |
| Vacuum                    | -0,25 (-0.3) bar                                                |
| Vertical Load             | 20 kN / approx. 2 t                                             |
| Connecting to             | Concrete Pipes                                                  |
| Standards                 | EN 681-1<br>CE                                                  |
| Temperature Range         | -50 to 80 °C constant, 100 °C intermittent                      |
| UV Resistant              | ✓                                                               |
| Oil / petrol Resistance   | ✗                                                               |
| Fire Performance          | Class F                                                         |
| Soil Suitability          | ✓                                                               |
| Flush-mounted suitability | ✓                                                               |
| Tensile Strength          | ✗                                                               |
| Lateral Pipe Deflection   | max. 5.7°                                                       |
| Deformation               | 5 %                                                             |
| Jetting Resistance        | 180 bar                                                         |
| Tightening Torque         | 6 Nm                                                            |

#### Requirements for the main pipes

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Pipe Size         | FA150B: DN 300+ Concrete<br>FA200B: DN 400+ Concrete       |
| Wall Thickness    | 50 – 150 mm                                                |
| Drilled Hole Size | FA150B: 172 mm (+1 / -0 mm)<br>FA200B: 232 mm (+1 / -0 mm) |



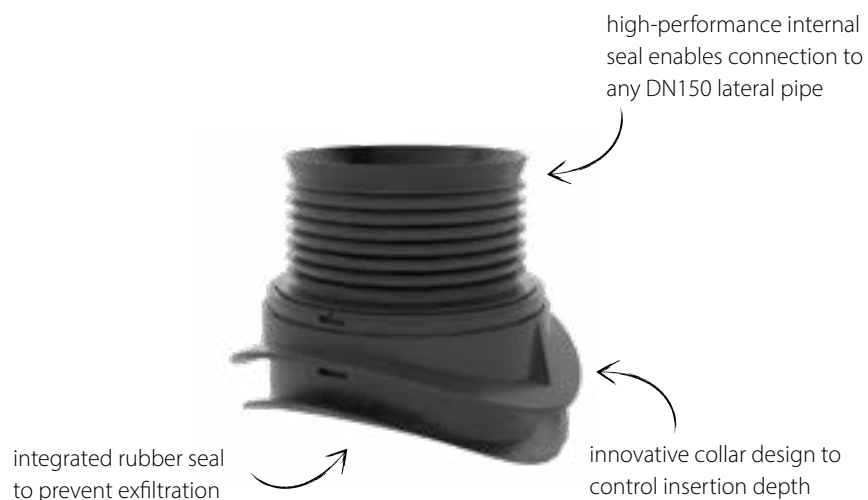
Technical data sheet available  
at [www.fernco.de/en](http://www.fernco.de/en)



Installation video on YouTube:  
[youtu.be/Pwnce25yvv4](https://youtu.be/Pwnce25yvv4)

## Saddle Storm-T

### Connecting to plastic pipes DN 300 – 600



|                      | ST150-300             | ST150-375-450 | ST150-500-600 |
|----------------------|-----------------------|---------------|---------------|
| Main Pipe            | DN 250 – 300          | DN 375 – 450  | DN 500 – 600  |
| Wall Thickness Range | 5 – 30.5 mm           | 5 – 45 mm     | 10 – 60 mm    |
| Drilled Hole Size    | 177 mm (+1 / -0.5 mm) |               |               |
| Size Lateral Pipe    | DN 150                |               |               |

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Name              | Saddle Storm-T                             |
| Product Group             | Lateral Connections                        |
| Product Code              | ST150-XXX                                  |
| Materials                 | EPDM elastomer<br>ABS plastic              |
| Pressure Rating           | 0.5 bar / 7.25 PSI                         |
| Vacuum                    | -0.3 bar                                   |
| Connecting to             | any plastic pipe                           |
| Standards                 | EN 681-1<br>CE                             |
| Temperature Range         | -50 to 80 °C constant, 100 °C intermittent |
| UV Resistant              | ✓                                          |
| Oil / petrol Resistance   | ✗                                          |
| Fire Performance          | Class F                                    |
| Soil Suitability          | ✓                                          |
| Flush-mounted suitability | ✓                                          |
| Tensile Strength          | ✗                                          |
| Lateral Pipe Deflection   | max. 4.5°                                  |
| Deformation               | 10 % of the main pipe                      |
| Jetting Resistance        | 180 bar                                    |



Technical data sheet available  
at [www.fernco.de/en](http://www.fernco.de/en)



Installation video on YouTube:  
[youtu.be/GCSMiZuCzDM](https://youtu.be/GCSMiZuCzDM)

# Saddle TA

## Connecting to smooth PVC pipes OD 200 – 600

will accept 110 mm, 160 mm or 200 mm PVC lateral pipe. Tighten with 13 Nm.



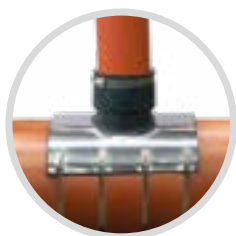
### Overview of the TA range

| Product Code         | OD main pipe (mm) | lateral PVC pipe (mm) | Drilled Hole Size | Connection Angle |
|----------------------|-------------------|-----------------------|-------------------|------------------|
| TA11090              | 160 – 400         | 110                   | 127 mm            | 90°              |
| TA11045              | 160 – 400         | 110                   | oval <sup>2</sup> | 45°              |
| TA16090              | 200 – 400         | 160                   | 172 mm            | 90°              |
| TA16045              | 200 – 400         | 160                   | oval <sup>2</sup> | 45°              |
| TA20045 <sup>1</sup> | 300 – 600         | 200                   | oval <sup>2</sup> | 45°              |

<sup>1</sup> All steel parts of the TA20045 are made of V4A (1.4404).

<sup>2</sup> For a 45° connection into PVC, the rubber seal can be used as a template and the oval hole cut with a suitable saw. If a 45° connection into stoneware or concrete is required, use an appropriate drilling jig.

TA11090  
TA16090



TA11045  
TA16045  
TA20045



|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Product Name              | Saddle TA                                                                            |
| Product Group             | Lateral Connections                                                                  |
| Product Code              | TAXXXXX                                                                              |
| Materials                 | Flexible PVC, Neoprene, V2A 1.4301 (304) Stainless Steel. More materials on request. |
| Pressure Rating           | 0.5 bar / 7.25 PSI                                                                   |
| Vacuum                    | –                                                                                    |
| Vertical Load             | –                                                                                    |
| Connecting to             | all smooth pipes                                                                     |
| Standards                 | CE                                                                                   |
| Temperature Range         | -34 to 40 °C constant, 60 °C intermittent<br>Neoprene: -45 to 100 °C                 |
| UV Resistant              | ✓                                                                                    |
| Oil / petrol Resistance   | ✗                                                                                    |
| Fire Performance          | Class F                                                                              |
| Soil Suitability          | ✓                                                                                    |
| Flush-mounted suitability | ✓                                                                                    |
| Tensile Strength          | ✗                                                                                    |
| Lateral Pipe Deflection   | max. 5°                                                                              |
| Deformation               | 10 % of the main pipe                                                                |
| Jetting Resistance        | 180 bar                                                                              |
| Tightening Torque         | 6 / 13 Nm                                                                            |



Technical data sheet available  
at [www.fernco.de/en](http://www.fernco.de/en)



Installation video on YouTube:  
[youtu.be/DL90ufTk1qU](https://youtu.be/DL90ufTk1qU)



## Saddle PA

### Connecting to all Plastic Pipes

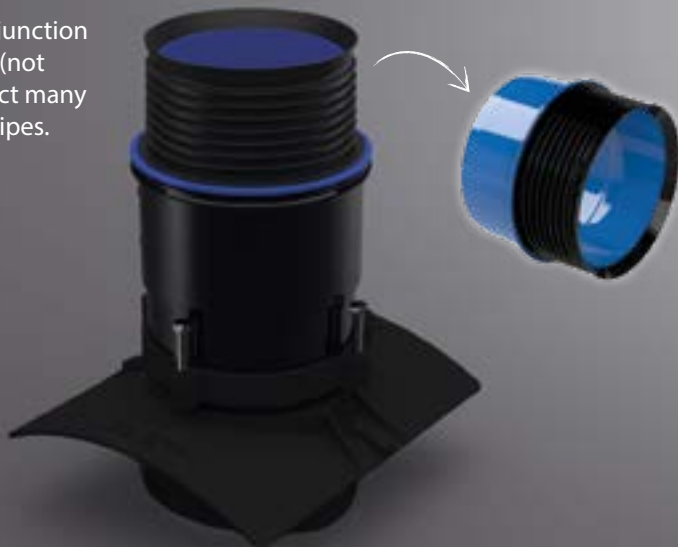


#### PA Spacer Ring

An additional spacer will be supplied and fitted to the PA saddle when connecting to thin-walled DN300 pipes such as smooth PVC.



can be used in conjunction with an IA adaptor (not included) to connect many different types of pipes.



|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| Product Name                    | Saddle PA                                                                  |
| Product Group                   | Lateral Connections                                                        |
| Product Code                    | PAXXX                                                                      |
| Materials                       | EPDM elastomer, ABS plastic<br>G/F Nylon, V2A 1.4301 (304) Stainless Steel |
| Pressure Rating                 | 0.5 bar / 7.25 PSI                                                         |
| Vacuum                          | -0.3 bar                                                                   |
| Vertical Load                   | 20 kN / approx. 2 t                                                        |
| Connecting to                   | smooth or structured plastic pipes                                         |
| Standards                       | EN 681-1<br>CE                                                             |
| Temperature Range               | -50 to 80 °C constant, 100 °C intermittent                                 |
| UV Resistant                    | ✓                                                                          |
| Oil / petrol Resistance         | ✗                                                                          |
| Fire Performance                | Class F                                                                    |
| Soil Suitability                | ✓                                                                          |
| Flush-mounted suitability       | ✓                                                                          |
| Tensile Strength                | ✗                                                                          |
| Lateral Pipe Deflection         | max. 8.5°                                                                  |
| Deformation                     | 10 % of the main pipe                                                      |
| Jetting Resistance              | 180 bar                                                                    |
| Tightening Torque               | 6 Nm                                                                       |
| Requirements for the main pipes |                                                                            |
| Pipe Size                       | DN 300 – 600 (structured pipes)<br>DN 300, 400, 500 (thin-walled pipes)    |
| Wall Thickness                  | varies                                                                     |
| Drilled Hole Size               | 177 mm (+1 / -0 mm)                                                        |



Technical data sheet available  
at [www.fernco.de/en](http://www.fernco.de/en)



Installation video on YouTube:  
[youtu.be/EAAF21uXLKA](https://youtu.be/EAAF21uXLKA)

## Saddle UA

### Connecting to twin-wall DN 700 and more



#### Common Couplings for DN 150 Lateral Pipes

| Product Code Couplings | Size Range Lateral Pipes |
|------------------------|--------------------------|
| AC1602                 | 110 – 122 mm             |
| AC1603                 | 121 – 136 mm             |
| SC165 / DC165          | 160 mm                   |
| SC175 / DC175          | 165 – 175 mm             |
| AC1924                 | 170 – 192 mm             |



|                                 |                                                                          |
|---------------------------------|--------------------------------------------------------------------------|
| Product Name                    | Saddle UA                                                                |
| Product Group                   | Lateral Connections                                                      |
| Product Code                    | UAXX                                                                     |
| Materials                       | EPDM elastomer, ABS plastic, G/F Nylon, V2A 1.4301 (304) Stainless Steel |
| Pressure Rating                 | 0.5 bar / 7.25 PSI                                                       |
| Vacuum                          | -0.3 bar                                                                 |
| Connecting to                   | twin-walled pipes ≤ DN 700                                               |
| Standards                       | EN 681-1<br>CE                                                           |
| Temperature Range               | -40 to 80 °C constant, 100 °C intermittent                               |
| UV Resistant                    | ✓                                                                        |
| Oil / petrol Resistance         | ✗                                                                        |
| Fire Performance                | Class F                                                                  |
| Soil Suitability                | ✓                                                                        |
| Flush-mounted suitability       | ✓                                                                        |
| Tensile Strength                | ✗                                                                        |
| Lateral Pipe Deflection         | max. 5°                                                                  |
| Deformation                     | 10 % of the main pipe                                                    |
| Jetting Resistance              | 180 bar                                                                  |
| Tightening Torque               | 6 Nm                                                                     |
| Requirements for the main pipes |                                                                          |
| Pipe Size                       | DN 700 – 3000                                                            |
| Wall Thickness                  | 30 – 122 mm                                                              |
| Drilled Hole Size               | 177 mm (+1 / -0.5 mm)                                                    |

## Standards and Services



**Fernco is committed to manufacturing products to the highest standards.**

To demonstrate and enforce this, the company implements a quality management system that meets the requirements of ISO 9001:2015.

The result is a range of connectors where the risk of defects or failures is virtually zero when installed correctly. Fernco combines quality with a culture of innovation, offering customers products and services that add real value to their businesses.



**You need it tomorrow? No problem!**

Fernco offers a unique combination of service and delivery that allows us to respond to our customers' needs. You can choose between our standard 2-3 day delivery or next day delivery before 9am, 10am or 12pm, either to site or to a local builders merchant. If it's a real emergency, call us to see if we can arrange same-day delivery.



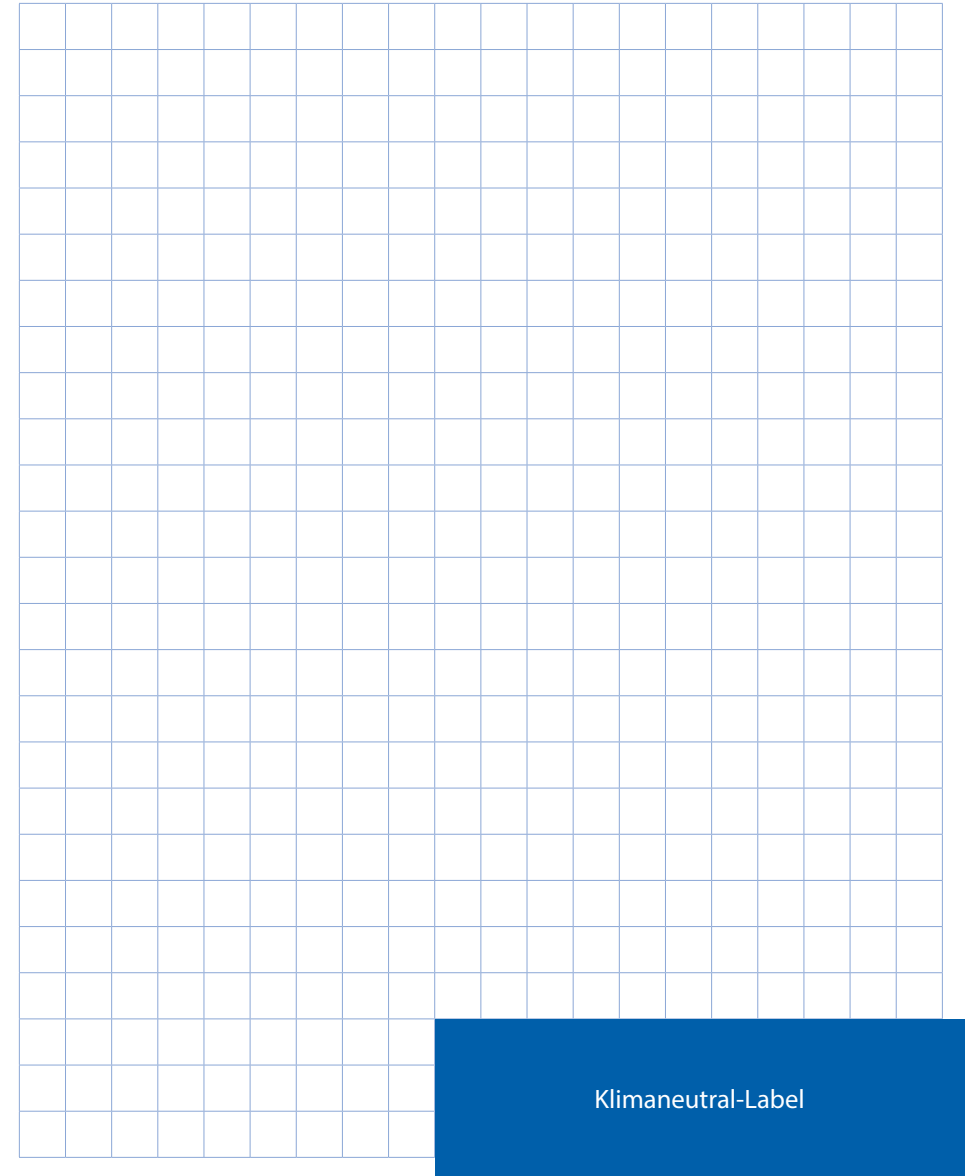
**A WRc Approved™ range**

The WRc Approved™ program is a recognised and established certification scheme in the construction industry. It provides assurance to suppliers, buyers and end users that products are fit for purpose. The scheme reduces procurement risks by ensuring that quality, performance and installation processes have been tested to the most stringent requirements and in accordance with BS EN 295.

Fernco offers a range of lateral connection and pipe joint products that are WRc approved.

## Tools / Accessories / Installation aids

| Product code      | Description                                                     | FA-ST | FA-UNI | FA150-B | FA200-B | UA | PA | Storm-T | TA |
|-------------------|-----------------------------------------------------------------|-------|--------|---------|---------|----|----|---------|----|
| <b>TDM14</b>      | Torque wrench 6-30 Nm                                           | ✓     | ✓      | ✓       | ✓       |    |    |         | ✓  |
| <b>T-N15</b>      | Hexagon Spanner Head 1/4 inch x 8 mm                            | ✓     | ✓      | ✓       | ✓       |    |    |         | ✓  |
| <b>ESH150B</b>    | Drive-in tool for FA150                                         | ✓     | ✓      | ✓       |         |    |    |         |    |
| <b>ESH200B</b>    | Drive-in tool for FA200                                         |       |        |         | ✓       |    |    |         |    |
| <b>HS-K90/127</b> | Core bit for PVCu Pipes (127 mm)<br>requires mounting HS-AUF150 |       |        |         |         |    |    |         | ✓  |
| <b>HS-K90/172</b> | Core bit for PVCu Pipes (172 mm)<br>requires mounting HS-AUF150 |       |        |         |         |    |    |         | ✓  |
| <b>HS-K90/177</b> | Core bit for PVCu Pipes (177 mm)<br>requires mounting HS-AUF150 |       |        |         |         | ✓  | ✓  | ✓       |    |
| <b>HS-AUF150</b>  | Mounting Hexagon for Core Bit                                   |       |        |         |         | ✓  | ✓  | ✓       | ✓  |
| <b>T-TC30-200</b> | Circle Cutter 30+200 mm for PVCu                                |       |        |         |         |    | ✓  | ✓       | ✓  |
| <b>T-TAK</b>      | T-wrench 6 mm hexagon socket                                    |       |        |         |         | ✓  | ✓  |         |    |
| <b>PL250NX</b>    | Lubricant 250 g tube                                            |       |        | ✓       |         |    |    | ✓       |    |
| <b>PL500NX</b>    | Lubricant 500 g tube                                            |       |        | ✓       |         |    |    | ✓       |    |
| <b>PL1-KT</b>     | Lubricant 1000 g tube                                           |       |        | ✓       |         |    |    | ✓       |    |



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worldwide!



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