FACT
Trend towards prefabrication
In most countries the labour costs are becoming an increasing part of the total installed cost of a project. To keep these costs at a minimum all major builders are steering towards prefabrication and modular design.

FACT
Evermore durable
Total cost of ownership is the name of the game. When translating this to installed systems, it means durable and quality materials that are proven to be low maintenance, now and in the future.

FACT
Complex modular designs
While building plans can take several years to develop because of large and complex designs, the building itself takes up less and less time. This requires modular design and smart use of materials on site.

Driven by durability
Modern building designs present evermore extreme challenges. Today, whether a consultant or installer, you need soil & waste solutions capable of responding to the commercial challenges faced by your clients’ and end users’ businesses. The drive for more:

Durability
Akatherm HDPE soil & waste systems are made from polyethylene, a durable material with a very long lifetime.

Low cost of ownership
Easy prefabrication and installation with secure joints all work together to keep the total cost of ownership at a minimum.

Security and flexibility
Akatherm HDPE soil & waste systems can be poured into concrete, embedded in the ground or hung from the ceiling and still sustain and perform.
These particular challenges can only be overcome by a specialist drainage solution. Akatherm helps you meet these demands with confidence.

Akatherm offers more than just a soil & waste system. Like every specialist drainage solution from Akatherm, it comes with a comprehensive level of support. All our systems are backed by dedicated software, full training and unique products, plus the service standards you would expect from high performance drainage experts and the worldwide backing of the Aliaxis group.

**Decisive advantages of Akatherm HDPE**

High Density Polyethylene is an exceptionally flexible and tough material, highly resistant to mechanical stress and impact even at low temperatures.

Akatherm HDPE has a complete product range consisting of pipes and fittings from 40 mm to 315 mm. It includes a wide range of branches, bends, traps, sanitary and connection fittings.

HDPE is a light weight system with simple and secure jointing techniques like electrofusion. It is a fully closed system with homogenous joints. Cost saving prefabrication is possible even in large sizes.
Be smarter

Akatherm HDPE has a high temperature and chemical resistance which makes it ideal for drainage in residential housing, commercial kitchens and laundries. It is flexible and tough for installation underground and embedded in concrete. Its closed system is perfect for trade waste applications like industrial and laboratory fluids where system integrity and secure homogenous connections are critical.

Quality and certification

Akatherm HDPE is developed and manufactured within an ISO 9001 Quality Assurance system and complies with the EN 1519 and other relevant international standards as well as meeting numerous national approved quality and safety standards.
**Jointing technology**

Akatherm HDPE offers a choice of welded and mechanical jointing techniques. Welded joints provide a homogenous joint ideal for ceiling voids, vertical stacks and underground pipework. Mechanical joints offer adjustability, flexibility and the option to demount.

**Mechanical joints**
- Plug-in joint
- Snap joint
- Screw-thread joint
- Flanged joint
- Contraction sleeve
- Sleeve coupling
- Metal coupling
- Rubber collar joint

**Welded joints**
- Butt-weld joint
- Electrofusion joint

Butt-welding homogenously joints HDPE pipes and fittings into prefabricated sections without using additional connection fittings.

Electrofusion is a rapid and simple way of permanently jointing individual pipes and fittings or prefabricated pipe sections in tight places.
**Think it. Build it.**

**Simple, secure & fast**

### Material advantages

- **Impact-resistant and tough:** Unbreakable at temperatures above 5°C
- **Elastic and flexible:** Adjusts to local ground movement for underground use
- **Thermal resistant:** Applications possible between -40°C and 80°C. Up to 100°C for short periods of time.
- **Chemical resistant:** Suitable for transport of polluted waste water
- **UV & weather resistant:** Unrestricted outside use through carbon black additives
- **Wear resistant:** Lower cost due to long lifetime

### System advantages

- **Welded system:** Simple and secure installation using butt-welding and electrofusion
- **Homogeneous welded joints:** Pull tight and leak proof for a completely closed system
- **Prefabrication:** Fast and cost-saving installation of repetitive systems
- **Light in weight:** Cost saving in transport and handling
- **Low heat conductivity:** No condensation insulation required during short periods of cooling
- **Non-toxic:** 100% recyclable and environmentally friendly
Aim higher

Because skyscrapers are designed evermore extreme, a single stack soil & waste system offers you the possibility to aim higher. End users gain more useable space inside the building because the vent pipe is obsolete. Architects can create extreme building shapes and go ‘sky high’ because the unique aspects offer several flexible connection possibilities. Material and installation costs are reduced through low weight, the vent pipe being obsolete and prefabricated pipe segments.

Complete product range including a wide range of branches, bends, traps, sanitary and connection fittings in conformity with EN1519

Single stack system with Stack-aerator for vertical installation in high-rise buildings

- More usable room in the building
- Extra space for other installations
- Higher flow capacity of the stack
- Less installation costs

No vent stack required

Underground within the building structure

≤1 m

High ring stiffness for installation embedded in concrete
Soil & Waste System

### Pipes

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#### Bend 88.5° electrofusable

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*Buttweld Only*
## akatherm HDPE Soil & Waste System

### Clean out branch 45°

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*Fabricated

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### Double ball branch 88.5° - 180°

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### Triple ball branch 88.5° - 90°

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### Triple ball branch 88.5° - 135°

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### Fourfold ball branch 88.5° - 90°

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Soil & Waste System

**Connection fittings**

**Electrofusion coupler**

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**Inspection screw lock long**

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**Waste connector**

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**Male thread adaptor short**

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</tr>
</thead>
<tbody>
<tr>
<td>53692</td>
<td>900580</td>
<td>50 x 1” BSP</td>
</tr>
<tr>
<td>53693</td>
<td>900681</td>
<td>50 x 1/4” BSP</td>
</tr>
<tr>
<td>53694</td>
<td>900682</td>
<td>63 x 11/2” BSP</td>
</tr>
<tr>
<td>53695</td>
<td>900683</td>
<td>63 x 2” BSP</td>
</tr>
</tbody>
</table>

**Male thread adaptor long**

<table>
<thead>
<tr>
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<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
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<tbody>
<tr>
<td>53700</td>
<td>970580</td>
<td>50mm x 1” BSP</td>
</tr>
<tr>
<td>53701</td>
<td>970581</td>
<td>50mm x 11/4” BSP</td>
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<tr>
<td>53702</td>
<td>970582</td>
<td>50mm x 11/2” BSP</td>
</tr>
<tr>
<td>53705</td>
<td>975683</td>
<td>56mm x 2” BSP</td>
</tr>
<tr>
<td>53703</td>
<td>970682</td>
<td>63mm x 11/2” BSP</td>
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<tr>
<td>53704</td>
<td>970683</td>
<td>63mm x 2” BSP</td>
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**Slab repair coupler**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>53767</td>
<td></td>
<td>56mm</td>
</tr>
<tr>
<td>53768</td>
<td></td>
<td>110mm</td>
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</tbody>
</table>

**Expansion socket with anchor point**

<table>
<thead>
<tr>
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<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>53551</td>
<td>400080</td>
<td>50mm</td>
</tr>
<tr>
<td>53560</td>
<td>400620</td>
<td>63mm</td>
</tr>
<tr>
<td>53710</td>
<td>400620*</td>
<td>63mm</td>
</tr>
<tr>
<td>53735</td>
<td>400720</td>
<td>75mm</td>
</tr>
<tr>
<td>53762</td>
<td>400920</td>
<td>90mm</td>
</tr>
<tr>
<td>53822</td>
<td>421120</td>
<td>110mm</td>
</tr>
<tr>
<td>53842</td>
<td>421620</td>
<td>160mm</td>
</tr>
<tr>
<td>53557</td>
<td>400200*</td>
<td>200mm</td>
</tr>
<tr>
<td>53558</td>
<td>402520*</td>
<td>250mm</td>
</tr>
<tr>
<td>53559</td>
<td>403120*</td>
<td>315mm</td>
</tr>
</tbody>
</table>

* Buttweld only.

**Plug-in socket for buttweld or E/F**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>53578</td>
<td>400510</td>
<td>50mm</td>
</tr>
<tr>
<td>53585</td>
<td>400610</td>
<td>56mm</td>
</tr>
<tr>
<td>53579</td>
<td>400710</td>
<td>63mm</td>
</tr>
<tr>
<td>53580</td>
<td>400720</td>
<td>75mm</td>
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<tr>
<td>53581</td>
<td>400920</td>
<td>90mm</td>
</tr>
<tr>
<td>53583</td>
<td>401120</td>
<td>110mm</td>
</tr>
</tbody>
</table>

**Flange bushing for screw coupler**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53586</td>
<td>400505</td>
<td>40mm</td>
</tr>
<tr>
<td>53587</td>
<td>400510</td>
<td>50mm</td>
</tr>
<tr>
<td>53590</td>
<td>400605</td>
<td>56mm</td>
</tr>
<tr>
<td>53592</td>
<td>400705</td>
<td>63mm</td>
</tr>
<tr>
<td>53595</td>
<td>400905</td>
<td>90mm</td>
</tr>
<tr>
<td>53598</td>
<td>401105</td>
<td>110mm</td>
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</tbody>
</table>

**Screw coupler short**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53685</td>
<td>400800</td>
<td>50mm</td>
</tr>
<tr>
<td>53691</td>
<td>400900</td>
<td>63mm</td>
</tr>
<tr>
<td>53792</td>
<td>401100</td>
<td>63mm</td>
</tr>
<tr>
<td>53793</td>
<td>401200</td>
<td>90mm</td>
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</tbody>
</table>

**Inspection screw lock short**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
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</thead>
<tbody>
<tr>
<td>53685</td>
<td>660700</td>
<td>75mm</td>
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</tbody>
</table>

**Female thread adaptor long**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53684</td>
<td>920580</td>
<td>50mm x 1” BSP</td>
</tr>
<tr>
<td>53685</td>
<td>920581</td>
<td>50mm x 11/4” BSP</td>
</tr>
<tr>
<td>53686</td>
<td>920582</td>
<td>50mm x 11/2” BSP</td>
</tr>
<tr>
<td>TBA</td>
<td>920583</td>
<td>50mm x 2” BSP</td>
</tr>
<tr>
<td>53689</td>
<td>925683</td>
<td>56mm x 2” BSP</td>
</tr>
<tr>
<td>53687</td>
<td>920682</td>
<td>60mm x 11/2” BSP</td>
</tr>
<tr>
<td>53688</td>
<td>920683</td>
<td>63mm x 2” BSP</td>
</tr>
<tr>
<td>TBA</td>
<td>920784</td>
<td>75mm x 21/2” BSP</td>
</tr>
</tbody>
</table>

**Contraction socket**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53638</td>
<td>500030</td>
<td>50/70mm</td>
</tr>
<tr>
<td>53639</td>
<td>500040</td>
<td>50/80mm</td>
</tr>
<tr>
<td>53652</td>
<td>500010</td>
<td>56/75mm</td>
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<tr>
<td>53640</td>
<td>500011</td>
<td>63/75mm</td>
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<tr>
<td>53641</td>
<td>500012</td>
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<td>53642</td>
<td>500013</td>
<td>75/90mm</td>
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<td>53643</td>
<td>500014</td>
<td>75/100mm</td>
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<tr>
<td>53644</td>
<td>500015</td>
<td>90/110mm</td>
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<td>53645</td>
<td>500016</td>
<td>110/125mm</td>
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<td>53646</td>
<td>500017</td>
<td>110/135mm</td>
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<td>53647</td>
<td>500018</td>
<td>110/150mm</td>
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<tr>
<td>53648</td>
<td>500019</td>
<td>160/180mm</td>
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<tr>
<td>53649</td>
<td>500020</td>
<td>160/195mm</td>
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<tr>
<td>53650</td>
<td>500021</td>
<td>200/225mm</td>
</tr>
<tr>
<td>53651</td>
<td>500022</td>
<td>250/280mm</td>
</tr>
</tbody>
</table>

**Slab repair coupler**

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>53767</td>
<td></td>
<td>56mm</td>
</tr>
<tr>
<td>53768</td>
<td></td>
<td>110mm</td>
</tr>
</tbody>
</table>
### Soil & Waste System

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53605 | 470402* | 40mm
53606 | 470502* | 50mm
53607 | 470602* | 63mm
53608 | 470702* | 75mm
53609 | 470902 | 90mm
53610 | 471102 | 110mm
53611 | 471202 | 125mm
53612 | 471602 | 160mm
53613 | 472002* | 200mm
53614 | 472502* | 250mm
53615 | 473102* | 315mm

* Buttweld only.

### Adaptor for PVC & Copper - use with snap or expansion socket

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53736 | 400821 | 80mm dwv PVC/copper
53737 | 401121 | 100mm copper
53738 | 401621 | 110mm
dwv PVC/Copper
53739 | 402021* | 150mm dwv PVC/Copper

* For 50mm DWV PVC - 56 HDPE (use standard snap/expansion socket)
* For 100mm DWV PVC - 110 HDPE (use standard snap/expansion socket)
* For 150mm DWV PVC - 160 HDPE (use standard snap/expansion socket)

### Rubber collar for pipe in pipe joints

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53629 | 513301 | 50/32mm
53630 | 513501 | 50/40mm
53632 | 513503 | 56/40mm
53631 | 513502 | 63/32mm
53633 | 513602 | 63/40mm
53634 | 513702 | 63/50mm

### Plugin socket adaptor HDPE-CU

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53757 | 425651 | 56x50mm

### Sanitary fittings

#### Wall-lavatory bend 90°

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53623 | 501118 | 110/110mm

* NBR O-ring

#### Protection plug

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53399 | 431119 | 110mm

#### Floor-lavatory socket

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53618 | 501101 | 110mm

#### Floor-lavatory bend 90°

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53619 | 501111 | 110mm

#### Trap connection bend 90°

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53625 | 510411 | 40/46mm
53626 | 510511 | 50/46mm
53628 | 510512 | 50/58mm
53636 | 515611 | 66/46mm
53637 | 515612 | 56/58mm

#### Trap connection socket

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53624 | 510401 | 40/46mm
53626 | 510502 | 50/58mm
53635 | 515602 | 56/58mm

#### Rubber seal for floor-lavatory socket/bend

#### VINIDEX CODE | PRODUCT NO. | SIZE
---|---|---
53620 | 501113 | 129mm
Soil & Waste System

### Traps

#### Four way riser electrofusible

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>53733</td>
<td>185656</td>
<td>110mm x 56mm</td>
</tr>
<tr>
<td>53734</td>
<td>189656</td>
<td>90mm x 56mm</td>
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</table>

#### Silt/Bucket Trap (S.S. Lid & Bucket)

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53732</td>
<td>183161</td>
<td>160/110mm Outlet</td>
</tr>
<tr>
<td>53731</td>
<td>183251</td>
<td>250/110mm Outlet</td>
</tr>
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</table>

#### Disconnector Trap (fixed) for E/F

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>53722</td>
<td>181111</td>
<td>110mm</td>
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### Electrofusion units

#### Electrofusion Equipment

<table>
<thead>
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<th>SIZE</th>
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<tbody>
<tr>
<td>53741</td>
<td>HSTS160</td>
<td>40/160mm</td>
</tr>
<tr>
<td>53742</td>
<td>HSTS315</td>
<td>40/315mm</td>
</tr>
</tbody>
</table>

### Tools & accessories

#### Isopropyl PE cleaner

<table>
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<th>PRODUCT NO.</th>
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<tbody>
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#### Scraper Spider Kit

<table>
<thead>
<tr>
<th>VINIDEX CODE</th>
<th>PRODUCT NO.</th>
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<tbody>
<tr>
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