RAPID FLASHING
Application Guide
Rapid Flashing is easy and quick to install, giving consistent application and peace of mind with the Redland Rapid Flashing guarantee.

Rapid Flashing is a simple alternative to lead for the majority of pitched roof applications. Rapid Flashing’s self-fusing capabilities remove the need for difficult welding and boss details. Rapid Flashing is a non-toxic product. This removes the need for regular blood tests that are required when working with lead.

Rapid Flashing’s unique properties offered by its polyisobutylene coating and aluminium mesh structure allow most roof details to be completed using longer lengths and smaller overlaps laps than lead, providing a cost effective aesthetic alternative.

Features

- Appearance of lead, grey colour
- Lighter weight than lead and easy to use
- Can be moulded quickly and easily, without the need for special tools
- Manufactured from environmentally-friendly materials
- Insensitive to extremes of cold and heat (-40°C to 100°C)
- UV resistant
- No scrap value means RAPID FLASHING is not at risk of theft
- 20 year product guarantee
- Unrivalled speed of installation means flashing details can be completed up to twice as fast as standard practice
- Easy to achieve an outstanding flashing detail
- Self-fusing capabilities remove the need for welding and boss details
- Easy handling and storage
- Dirt resistant surface
- Low site waste due to ease of cutting and simple fixing
- In use on pitched roofs since 1991

PRODUCT SIZES

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
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ACCESSORIES

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<tr>
<th>Code</th>
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<tr>
<td>9930</td>
<td>Additional Butyl Strip (20mm x 2m)</td>
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<tr>
<td>9994</td>
<td>Rapid Flashing Roller</td>
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<tr>
<td>9998</td>
<td>Rapid Flashing Strip (5 x 2m)</td>
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<tr>
<td>9995</td>
<td>Rapid Flashing Sealant (310ml)</td>
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<tr>
<td>9929</td>
<td>Rapid Flashing M-Glue (290ml)</td>
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Covered by a BBA Certificate for use on pitched roofs. It is also accepted by the NHBC and Zurich Insurance.
**General Working Rules**

Rapid Flashing is able to form most roof details quickly, using simple tools only. It also avoids the need for difficult welding and boss details.

**Tools**

Only a pair of scissors or a Stanley-knife is required for cutting Rapid Flashing. A roller (9994) is recommended for joining pieces of Rapid Flashing. Do not use a hammer to form the Rapid Flashing, the force of your fingers is sufficient coupled with a roller.

**Surfaces**

Rapid Flashing should be installed in dry conditions for best results. If laid on damp surfaces ensure that Rapid Flashing is first fixed to surface using M-Glue. This will hold the Rapid Flashing in place until the surface dries out allowing Rapid Flashing to adhere to dry surface.

**RECOMMENDED ROLL WIDTHS**

<table>
<thead>
<tr>
<th>Application (mm)</th>
<th>140mm</th>
<th>180mm</th>
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<td>Side abutments</td>
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<td>Traditional step flashings (Flat)</td>
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<td>Traditional step flashings (Profile)</td>
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<td>Continuous wall flashings</td>
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<td>Lead rolls (Bonding two roofs)</td>
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<td>Pitched open valleys</td>
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**Prevention against wind uplift**

The integrated Butyl-strips on Rapid Flashing ensure a weathertight seal on the roof. The Butyl-strip will also prevent wind uplift. Where Rapid Flashing is chased into brickwork or other walls, use wedges and Rapid Flashing Sealant (9995) to fix and seal the free edge.

**Joining / Elongation**

- Joining two pieces just overlap the material by min 30mm.
- For good connection use a roller.
- Due to the self-fusing properties a strong join will be formed.
- There is no glue or other additional treatment necessary.

Rapid Flashing's self-fusing properties with integrated Butyl Strips and range of accessories such as Rapid Flashing Strip and Sealant make joints easy to complete.

**Rapid Flashing Strip**

- Bead of Rapid Flashing Sealant.
- Rapid Flashing Strip.
- Butyl strip – Built-in or separate.
- Screws to suit substrate.
- Use all holes.
- Rapid Flashing dressed closely to wall.

**Rapid Flashing Joint**

- Rapid Flashing Sealant
- Rapid Flashing wedge made to suit joint, and driven in with a wooden plugging chisel. Ensure Rapid Flashing is not damaged.

**Rapid Flashing Overlap**

- Press layers firmly together to ensure self adhesion

**Rapid Flashing Welt**

- 20mm wide folds are required to form welt. Press layers firmly together to ensure self adhesion. For a more secure welt, or where specified, adhere to substrate with butyl strip.

*Note: Assumes house with conventional construction (rendered or non-rendered brickwork/blockwork masonry) with roof of pitch 30°-45° in normal UK exposure conditions. For other situations, please contact Redland Technical Solutions, or see DesignMaster CAD details.*
For wall constructions where masonry cavity trays are required, traditional step flashing details can be formed using Rapid Flashing.

For side abutments where cavity trays are not needed straight continuous flashings can be installed with either the top edge chased into a raking slot or finished using Rapid Flashing Strip.

**Rapid Flashing on flat interlocking tiles**

Use a step and cover flashing turned up the wall by approx 150mm, and covering the tile surface by a minimum of 120mm. When using flat interlocking tiles a GRP secret gutter should always be used in conjunction with the flashing.

**Rapid Flashing on profile tiles**

Use a step and cover flashing turned up the wall by a minimum of 150mm and extending over the tile surface by a minimum of 150mm ensuring at least one pan and roll is covered.

**Rapid Flashing on plain tiles or double lapped slates**

Plain tiles or slates should be covered with Rapid Flashing soakers and a stepped cover flashing. Soakers should be cut from Rapid Flashing and shaped so they run 65mm up the wall. The soaker should not show beyond the length of the tile or slate. Cover the soaker upstands with a step flashing by a minimum of 30mm.
Continuous Flashing, Chased - Flat Interlocking Tiles

Rapid Flashing 280mm (9955/6) or 370mm (9957) (depending on how tiles are cut/positioned at abutment) (with top edge including butyl strip removed) cover flashing turned 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to dress over tiles by not less than 150mm and a complete pan and crown of the profile, and be properly adhered to tiles with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing Strip and Rapid Flashing, and between Rapid Flashing Strip and wall.

Continuous Flashing, Chased - Profile Tiles

Rapid Flashing 280mm (9955/6) or 370mm (9957) (depending on how tiles are cut/positioned at abutment) (with top edge including butyl strip removed) cover flashing turned 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to dress over tiles by not less than 150mm and a complete pan and crown of the profile, and be properly adhered to tiles with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

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Continuous Flashing, Chased - Plain Tiles

Rapid Flashing 140mm (9953) (with top edge including butyl strip removed) to lap soaker upstands by at least 55mm, and adhere with built-in butyl strip. Top edge turned into chased 25mm deep x 10mm wide slot (see detail).

Rapid Flashing 140mm (9953) soakers dressed closely up wall to at least 60mm above tile line, and extend at least 65mm under tiles. Adhere to wall and tiles with built-in butyl strips, and ensure good seal (use Rapid Flashing Sealant (9995) at any gaps). Ensure soakers are pressed tightly together against wall.

Redland Plain Tile (6151) nom. 2mm to 5mm from wall.

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing and Rapid Flashing Strip, and between Rapid Flashing Strip and wall.

Continuous Flashing, Strip - Flat Interlocking Tiles

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing Strip and Rapid Flashing, and between Rapid Flashing Strip and wall.

Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Rapid Flashing 280mm (9955/6) cover flashing, dressed over slate by not less than 120mm, dressed up wall by not less than 75mm, properly adhered to slate and wall with built-in butyl strips. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing and Rapid Flashing Strip, and between Rapid Flashing Strip and wall.

Continuous Flashing, Strip - Profile Tiles

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing and Rapid Flashing Strip, and between Rapid Flashing Strip and wall.

Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Rapid Flashing 280mm (9955/6) or 370mm (9957) (depending on how tiles are cut/positioned at abutment) (with top edge including butyl strip removed) cover flashing turned 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to dress over tiles by not less than 150mm and a complete pan and crown of the profile, and be properly adhered to tiles with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

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Continuous Flashing, Strip - Profile Tiles

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Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing and Rapid Flashing Strip, and between Rapid Flashing Strip and wall.
Traditional Step Flashing - Flat Interlocking Tiles

Rapid Flashing 280mm (9955/6) (cut down centre to form two 140mm strips, each with butyl on one side) step flashing to lap soakers upstand by 55mm. Allow 85mm to cut step flashing angles.

Mini Stonewold Slates with nibs removed as required to avoid clash with gutter. Must be mechanically fixed:
- Half Slate Pair (4263).
- Slate (4261).

Gap: Nominal 2mm to 15mm max.
Trussed rafter.

25 x 25mm S.W. gutter edge batten.
75 x 50mm S.W. nogging.

Continuous Flashing, Chased - Flat Interlocking Tiles

Rapid Flashing 140mm (9953) (with top edge including butyl strip removed) cover flashing turned 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to lap over secret gutter upstand by at least 55mm, and be properly adhered with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Mini Stonewold Slates with nibs removed as required to avoid clash with gutter. Must be mechanically fixed:
- Half Slate Pair (4263).
- Slate (4261).

Gap: Nominal 2mm to 15mm max.
Trussed rafter.

25 x 25mm S.W. gutter edge batten.
75 x 50mm S.W. nogging.

Continuous Flashing, Strip - Flat Interlocking Tiles

Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing Strip and Rapid Flashing, and between Rapid Flashing and wall. Rapid Flashing Strip (9998) fixed in accordance with instructions with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).

Rapid Flashing 140mm (9953) to lap over secret gutter upstand by at least 55mm and extend at least a further 30mm up wall (both measured perpendicular to roof slope), and be properly adhered with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Mini Stonewold Slates with nibs removed as required to avoid clash with gutter. Must be mechanically fixed:
- Half Slate Pair (4263).
- Slate (4261).

Gap: Nominal 2mm to 15mm max.
Trussed rafter.

25 x 25mm S.W. gutter edge batten.
75 x 50mm S.W. nogging.

Traditional Step Flashing - Profile Tiles

Rapid Flashing 280mm (9955/6) (cut down centre to form two 140mm strips, each with butyl on one side) step flashing to lap soakers upstand by 55mm. Allow 85mm to cut step flashing angles.

Double Roman Tile (2201) with nibs removed as required to avoid clash with gutter. Must be mechanically fixed.

Eaves comb, with bead of Rapid Flashing Sealant under full length along centre of base, nailed to gutter edge batten through sealant, with S.S or galvanized nails.

Continuous Flashing, Chased - Profile Tiles

Rapid Flashing 280mm (9955/6) (cut down centre to form two 140mm strips, each with butyl on one side) step flashing to lap soakers upstand by 55mm. Allow 85mm to cut step flashing angles. Flashing turned 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to lap over secret gutter upstand by at least 55mm, and be properly adhered with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Double Roman Tile (2201) with nibs removed as required to avoid clash with gutter. Must be mechanically fixed.

Eaves comb, with bead of Rapid Flashing Sealant under full length along centre of base, nailed to gutter edge batten through sealant, with S.S or galvanized nails.

Continuous Flashing, Strip - Profile Tiles

Rapid Flashing 140mm (9953) to lap over secret gutter upstand by at least 55mm and extend at least a further 30mm up wall (both measured perpendicular to roof slope), and be properly adhered with built-in butyl strip. Rapid Flashing to be laid in accordance with Redland Fixing Instructions.

Double Roman Tile (2201) with nibs removed as required to avoid clash with gutter. Must be mechanically fixed.

Eaves comb, with bead of Rapid Flashing Sealant under full length along centre of base, nailed to gutter edge batten through sealant, with S.S or galvanized nails.
Top Edge Abutments

Top edge abutments at walls, whether ventilated or not, can be finished neatly using Rapid Flashing either chased into the wall or completed using Rapid Flashing Strip.

Rapid Flashing should cover the tiles or slates by a minimum 90mm and turned up the wall for a minimum of 65mm if chased or 75mm if finished with Strip.

**Non-Ventilated**

Fold Rapid Flashing according to the measurements above and remove one part of the backing film. Form this part to the tiles and ensure the edge with the butyl-strip is properly fixed to the tiles. Then remove the rest of the backing film and form Rapid Flashing to the wall. Fix according to the chapter on joints.

**Ventilated**

Fix the PVC-Ventilation profile and tray, then fit Rapid Flashing into the joint of the ventilation profile without removing the backing film. After this remove the backing film keeping the Rapid Flashing in position. For fixing into the brickwork see the chapter on joints.

*For exposed areas please contact Redland Technical Solutions*

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**Non-Ventilated, Chased - Plain Tiles**

- Cavity tray extends to 150mm beyond abutment verges.
- Rapid Flashing 280mm (9955/6) or 370mm (9957) (depending upon brick coursing) cover flashing, with top edge including butyl strip removed, dressed closely over slate and up wall, and turned 25mm into wall under cavity tray (where required or specified).
- Tile lap at least 90mm. Bottom edge adhered with butyl strip. All Rapid Flashing to be laid, fitted and fixed in accordance with the Redland Rapid Flashing Instructions. Add WBP ply support for Rapid Flashing between slate and wall, if required or specified.

**Ventilated, Chased - Flat Interlocking Tiles**

- Use Abutment Ventilation Pack (9548).
- Rapid Flashing 370mm (9957) cover flashing, with top edge including butyl strip removed, dressed closely over support tray and up wall, and turned 25mm into wall under cavity tray (where required or specified). Bottom edge engaged in slot in support tray, and adhered with butyl strip. All Rapid Flashing to be laid, fitted and fixed in accordance with the Redland Rapid Flashing Instructions.

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**Non-Ventilated, Strip - Profile Tiles**

- Bead of Rapid Flashing Sealant (9995) in accordance with instructions, to properly seal between Rapid Flashing Strip and Rapid Flashing, and between Rapid Flashing and wall.
- Rapid Flashing Strip (9998) fixed in accordance with instructions, with screws suitable for substrate. Screw holes sealed with Rapid Flashing Sealant (9995).
- Rapid Flashing 280mm (9955/6) cover flashing, dressed closely over slates and up wall. Tile lap at least 90mm. Bottom and top edges adhered to slates and wall with built-in butyl strip. All Rapid Flashing to be laid, fitted and fixed in accordance with the Redland Rapid Flashing Instructions. Add WBP ply support for Rapid Flashing between slate and wall, if required or specified.
- 50mm x 25mm S.W. batten, 40mm down slope from wall.
- Double Roman tile.
- Underlay dressed 60mm up wall.

**Ventilated, Chased - Profile Tiles**

- Use Abutment Ventilation Pack (9543).
- Rapid Flashing 370mm (9957) cover flashing, with top edge including butyl strip removed, dressed closely over support tray and up wall, and turned 25mm into wall under cavity tray (where required or specified). Bottom edge engaged in slot in support tray, and adhered with butyl strip. All Rapid Flashing to be laid, fitted and fixed in accordance with the Redland Rapid Flashing Instructions.
Chimneys – Back Gutter

Rapid Flashing is an ideal choice for completing all the details around a chimney including the back gutter.

For other areas of chimney flashing please refer to Top Edge Abutments and Side Abutment details in this application guide.

560mm wide Rapid Flashing can be used to weather the back gutter of a chimney. Ensure a minimum upstand of 100mm is maintained across the back and all sections of Rapid Flashing overlap by a minimum of 30mm.

A soft wood tilting fillet must be in place to form the back gutter and support the Rapid Flashing.

Fold the Rapid Flashing back gutter around and down the tiles and form into the brick joints or fix using Rapid Flashing Strip. You may need to add another piece of Rapid Flashing to extend it up onto the lay board and tilt fillet.

Use the roller to mould into place. Once the back gutter is in place, turn the side edge over on itself to create a 20mm welt at the top edge and sides covered by tiles.

Use Rapid Flashing Sealant to seal all joints.

Note: If at any time the Rapid Flashing is not wide enough, it can be increased in width by fusing two widths together. When joining two pieces of Rapid Flashing together, overlap by a minimum of 30mm and press firmly using a roller to ensure seams are fused together.
Roof Outlets

Rapid Flashing is the perfect choice for completing the details around common roof penetrations such as soil vent stacks, metal flues and other roof outlets.

**Outlets with a removable or no cap**

The Rapid Flashing slate should be laid on the roof so that the butyl-strips point to the eave. The size required for the base of the slate will vary according to the type of roof covering and diameter of the pipe. For standard plain tiles and slates with a 100mm diameter pipe, a width of 370mm should be used.

The base should extend min. 150mm in front of the pipe over the tiles. The back should finish a min 100mm under the tile or slate. End under the tiles with a 20mm welt. Cut a hole in the base for the pipe with a diameter 20mm smaller than the diameter of the pipe and pull the flashing over the pipe. The stretchability of Rapid Flashing will help to put the pipe through.

Seal the resulting collar a min. 60mm strip of Rapid Flashing by wrapping it around the pipe. For profiled tiles the Rapid Flashing base has to end in the valley of the next tile.

**Outlets with a fixed cap**

The Rapid Flashing slate should be laid on the roof so that the butyl-strips point to the eave. This application requires a slate made of two pieces of Rapid Flashing. For the width and the complete length use the same assumptions as above. The two parts have to overlap by a min 30mm.

*IMPORTANT: No gas flue pipes or pipes with a temperature higher than 100°C*

Ridge Saddles

Rapid Flashing allows weather proofing of the junction between ridge and valleys, other abutments and roof details.

**Ridge saddles**

This can easily be done by using two pieces of Rapid Flashing: one covering the ridge and the second sealing onto the roof area. Start with the piece for the ridge. Cut it to get a V-shape and put it on the ridge. Form a 20mm welt on the ridge-side of the piece. To seal to the roof area use a piece of 370mm width Rapid Flashing with butyl-strips in horizontal direction.

Fold it from the tiles along the ridge and cut it in the middle of the ridge until 20mm before the ridge joins the roof area. Form the roof piece over the ridge piece to ensure a 30mm overlap in all areas. Remove the backing film from the each piece and fix in place. Use the self-welding effect of Rapid-Flashings to seal the two parts together using a roller. The minimum headlap over the tile should be 90mm.

**Wall connection at a ridge**

For a sidewall abutment that goes over a ridge use two pieces of Rapid Flashing. The first one will be laid over the ridge by standing up the wall 25mm. The butyl-strips of this piece have to be in parallel with the wall.

The second piece is for the connection to the brickwork. Hold the piece to the brickwork and ensure that it covers the width of the first piece and overlaps the upstanding min 30mm after cutting the step-flashing. The two pieces will self-fuse.

Finish the abutment by cutting the step-flashing and fixing Rapid Flashing in the joints of the brickwork. The minimum upstand against the wall should be 65mm if chased or 75mm if finished with Strip. The minimum headlap over the tiles should be 90mm.
Rapid Flashing allows traditional lead roof details between the junction of two roofs to be completed easily leaving an aesthetic join between adjacent roofs.

**Lead Rolls (Bonding Two Roofs)**

Rapid Flashing can be used as flashing for lead rolls. This has to be used if two connecting roofs of a roof have different tiles. A typical way to do this is to use a 50 x 50mm softwood batten which is screw fixed to the tiling battens. The softwood batten is covered by a packing batten topped with a Wood roll.

For sealing the lead rolls use two strips of Rapid Flashing with the butyl-strips parallel to it. Choose the width of Rapid Flashing to cover the whole wood roll and a min 150mm of the tile, ensuring a 30mm overlap.

To lay the Rapid Flashing start on the wood roll and fix it with clout nails. Form it completely along the shape of the lead roll and fix on the tile side using the butyl-strips. Use a roller to ensure water tight join to the tiles.

The second part starts from the roof side which is now covered with Rapid Flashing. Fix it around the lead roll to end on the other side. Ensure that the second layer of Rapid Flashing is laid tight and without crinkles on the first layer.

An additional fixing with nails is not necessary due to the self-welding effect of Rapid Flashing.

**Open Valleys**

Traditional open pitched valley gutters can be constructed using Rapid Flashing using longer lengths and smaller overlaps than lead.

**WIDTH OF VALLEY GUTTERS (mm)**

<table>
<thead>
<tr>
<th>Roof Pitch (degrees)</th>
<th>'A' Design Rainfall Rate per m², Plan Area Draining</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0625 l/s per m²</td>
</tr>
<tr>
<td></td>
<td>25m² or less</td>
</tr>
<tr>
<td>15.0 +</td>
<td>150</td>
</tr>
<tr>
<td>17.5 +</td>
<td>125</td>
</tr>
<tr>
<td>22.5 +</td>
<td>100</td>
</tr>
<tr>
<td>30.0 +</td>
<td>100</td>
</tr>
<tr>
<td>35.0 +</td>
<td>100</td>
</tr>
</tbody>
</table>
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