

KR50-03 Dense Concrete

This file includes 2 different specifications (in order):

- KR50 - 03 Silicone TC15 onto RC Dense Concrete Block - R10 & HP12 Full Mesh
- KR50 - 03 Silicone TC15 onto Dense RC Concrete - HP12 Basecoat

KR50-03 Dense Concrete

KR50 - 03 Silicone TC15 onto RC Dense Concrete
Block - R10 & HP12 Full Mesh

SPECIFICATION

Reference:	KR50 – 03-Sil TC 15 Finished onto HP 12 Base / Dense Concrete
Manufacturer:	Kilwaughter Minerals Ltd 9 Starbog Road, Larne, Co. Antrim, BT40 2TJ, N. Ireland
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JOB DESCRIPTION

Clause: M20 - PLASTERED / RENDERED / ROUGHCAST COATINGS

To be read with Preliminaries/General Conditions

160 Proprietary Cement Gauged Render

Summary: K Rend Sil TC15 Finished onto HP 12 Base with Full Mesh over R 10 Primer K Coat.

Substrate: Dense Concrete / RC Concrete

Key Coat Primer: K Rend R10,

Applied in One application using brush or roller, uniformly. Allow to set for One day.

Prep/Base Coat: K Rend HP 12 Basecoat.

Applied in Two x 4mm passes with Alkali Glassfibre Meshcloth universally embedded midpoint between coats. Rule to line & level, allow to semi set & finish the surface, using plastic float to rub up smooth. Allow to cure for 14 days, prior to TC Primer & Sil TC 15 finish.

Thickness: 8mm

TC Primer: K Rend Primer TC

Colour: Selected by Specifier (Primer colour **co-ordinated** with finish coat Sil TC 15).

Finish Coat: K Rend Silicone TC 15

Colour: Selected by Specifier

Finish: Fine Textured 1.5mm.

Total Thickness: 10mm

See section on Application.

K Rend Products should be applied strictly in accordance with the manufacturer's instructions and specifications and the relevant sections of BS EN 13914-1. Further guidance is available in the British Board of Agrément, Certificate No.97/3428 and the National Standards Authority of Ireland (NSAI), Agrément, Certificate No.06/0248.

If these instructions are not followed closely, a satisfactory finish may not be achieved and Kilwaughter Minerals Ltd will accept no responsibility. This specification is valid for 6 months from date of issue. Thereafter details should be re-checked with Kilwaughter Minerals Ltd.

DESIGN CONSIDERATIONS

Certain locations may require an additional depth of render due to the exposure to wind driven rain. Advice should be sought from Kilwaughter Minerals Ltd.

New construction to be rendered should be designed and constructed in accordance with the relevant recommendations of BS EN 13914-1.

Render should only be applied to mature, stable surfaces. New walls to be rendered should be left as long as possible to minimise substrate movement (typically 28 days).

In order to achieve the best finish K Bead PVC Angle, Stop, Bellcast, Drip and Expansion beads should be used. The K Bead range is available with all K Rend Products from Kilwaughter Minerals Ltd. Advice about movement joints to be detailed by the site engineer (typically every 6 x 6 sq m² on RC Dense Concrete) or expressed in façade construction joints.

Render must not be applied to horizontal or sloping surfaces. Rendering should not be continued over movement joints, damp proof courses, weep holes or air vents.

An adequate flashing must always be provided to prevent water penetrating behind the render.

Suitably designed overhangs and flashings should be provided to prevent water washing onto the façade. A generous overhang or eave should be designed, and all sills and copings should have sufficient drips, including mortar joints at coping. Gutters and down-pipes must also be designed to keep water off the façade, temporary guttering and down pipes may be required to help keep the surface as dry as possible.

In order to minimise damage to the rendering, consideration should be given to installing fixings for rainwater, soil and vent pipes before rendering commences. The pipes themselves should be fitted after rendering is completed. Fixings should be made of stainless steel to minimise the risk of corrosion.

Independent scaffolding should be used to minimise scaffold ties and avoid the need to repair plug holes. Enough height and clearance should be allowed to enable satisfactory completion of the rendered finish.

Some construction materials may be susceptible to alkali attack. Fittings and adjacent surfaces that are likely to be damaged during rendering should be protected.

A Plinth detail is recommended below DPC level to provide a splashback and minimise colour issues at ground level.

It is advised that a project visit is carried out at least one week in advance of render application start date, evaluating any preparation issues.

BACKGROUND AND PREPARATION.

Dense Concrete / RC Concrete

All other trades should have first fix works completed and the building perimeters made watertight.

The background should be assessed by the contractor to ensure that it is suitable to receive the K Rend System. When doing so it should also be checked for line and level to decide if the render can be applied in a uniform thickness or if dubbing out is required. Following suitable application of the background using K Rend R 10, Prep Coat (Only) should be used for any dubbing out requirement. The surface of the Prep Coat should be keyed horizontally using a plastering scratcher and allowed sufficient time to cure.

All necessary repairs must be carried out before application. All damage to substrate from salt attack, corrosion, or salts (including efflorescence) must be carefully prepared & removed from substrate surface, prior to render applications. Surface concrete must be clean and any holes or insufficiently filled joints repaired. Additional K Rend Alkali Resistant Reinforcing Mesh to be used at such areas.

Any structural cracking in the background should be brought to the attention of a structural engineer and stabilised prior to rendering as standard practice.

It is recommended that additional alkali resistant reinforcing mesh is used in areas likely to suffer from stress cracking. This can be done by applying Prep Coat, bedding mesh into it whilst it is still wet and leaving the Prep Coat with a light scratch prior to setting. K Rend Alkali Resistant Reinforcing Mesh is available with all K Rend Products from Kilwaughter Minerals Ltd.

The substrate surface must be clean and free from any loose or friable material including paint, oil, soot, lichens and dust or similar. If there is any algae present it should be treated with a proprietary fungicidal wash or surface biocide (i.e. K Rend - Algae Clean) and then pressure washed to remove any residue. Biocide supplier's instructions to be followed.

All scaffold planks should be brushed free of all dust and debris prior to the application of render, specifically finished TC 15 applications.

The products in this specification should not be applied to frost affected or saturated walls.

Apply suction control as necessary, it may be necessary to damp down walls prior to applying the product to control suction. Rendering should not be applied to walls which have been subject to rain over several hours.

Prep Coat should be applied to areas with poor key, such as smooth concrete lintels using Prep Coat / HP 12 basecoat.

PRODUCT

K Rend / R 10 - Key Coat Primer / Applied in One coat with brush or roller evenly)

K Rend / Beading (see section on Beads)

K Rend / HP 12 Basecoat (Basecoat cementitious polymer formulated render embedded with Alkali Glassfibre Mesh)

K Rend / TC Primer (colour co-ordinated with TC 15 finished coat)

K Rend / Silicone TC 15 Finish. (thin coat synthetic resin plaster).

K Rend / K Pro (Exterior Sealer) Optional.

Colour as selected by the Specifier.

Samples are provided on request for colour indication only, it is always recommended that a physical sample of the colour and product is checked before the product is used.

It is recommended that a test panel (ideally 2m²) be produced for inspection by the customer (client, architect etc.). Work should not commence until the customer is satisfied with the appearance of the product.

Tendering applicators should be familiar with product water requirement, handling characteristics, setting and hardening times. These may vary according to background temperature and humidity. The test panel should be prepared well in advance of work commencing.

K Rend HP 12 basecoat products are delivered in 25 kg bags / 40 bags on a pallet (1Tonne).

The liquids product is delivered in sealed tubs delivered on pallets.

K Rend products R 10 / 20 Kg buckets

K Rend product Primer TC / 15 Kg buckets.

K Rend product Silicone TC 15 / 25 Kg buckets.

Storage

Product sacks, even when protected by hoods, are only shower proof, and should be further protected to prevent damp causing caking of the product. The shelf life is 1 year from date of manufacture if stored off the ground in dry conditions, protected from frost and sunlight, in original unopened packaging.

It is important to note that all K Rend Products are non-returnable.

Health and Safety

A Material Safety Data Sheet is available from the manufacturer and should be read prior to commencement of any rendering.

APPLICATION METHOD

K Rend Products should be applied strictly in accordance with the manufacturer's instructions and specifications and the relevant sections of BS EN 13914-1. Further guidance is available in the British Board of Agrément Certificate No. 97/3428 and the National Standards Authority of Ireland (NSAI) Agrément Certificate No. 06/0248.

Dubbing Out

Following application using key coat Primer / R Rend R 10 uniformly applied onto the surface substrate. All dubbing out coats necessary to correct any surface alignment should be carried out as a first step, prior to beading using Prep/ Basecoat only.

Beading

All beading should be adhesively expressed & set, encapsulating the bead web using Prep Basecoat for stability.

All beading should be fixed to the substrate and aligned correctly prior to application of render basecoats.

- K Beads Required**
- 6mm Angle beads adhesively expressed and set to minimum depth 8mm.
 - 6mm Movement beads adhesively expressed and set to a minimum depth 8mm.
 - 6mm Render Stop Beads adhesively expressed & set to a minimum depth 8mm.
 - 11mm Bellcast beads expressed at DPC elevated to 14 - 16mm front edge. (If required)

Mixing

K Rend R 10 buckets is supplied in 20 Kg buckets. Simply stir using drill & paddle for 3 - 4 minutes.

K Rend HP 12 requires approximately 5-6 litres of clean water per 25kg. Consistency in proportions is essential to ensure an even finish. Mix thoroughly, using either Drum site mixer for larger volumes or Drill & Paddle, it takes at least 10 minutes to dissolve the powder additives. For best results, mix for 5 minutes, allow K Rend HP 12 a void period of not mixing, 4-5 minutes and then re-mix again for 2 - 4 minutes, this mixing procedure will provide a wider working window while applying this product. When using Plastering Machines for HP 12 applications, the optimal settings should be checked with Kilwaughter Minerals Ltd, technical team.

TC Primer are supplied to the customer in 15 Kg buckets, simply requires drill & paddle mix for Two minutes (no water) Silicone TC 15 are supplied to the customer in 25 Kg buckets & will also need drill & paddle mixed using a little clean water during mix procedure. The same ratio of water should be measured accurately for **each** bucket of Sil TC 15, creating a uniform finished colour for all applied & cured perimeters façades.

Once the products have been mixed to the desired consistency additional water should not be added. The products should not be remixed once the material has started to set.

Application

Perimeter protection will be required to the working area, covering all window & door frames / floor area etc.

K Rend R 10 applied by brush or roller on in One uniform application. Allow One day minimum for R 10 to cure & set.

Perimeter beading see section on beading.

K Rend HP 12 Base, apply either by machine or by hawk and trowel at 4mm first pass. Whilst the HP 12 Base is still wet K Rend alkali resistant reinforcing mesh is embedded vertically throughout the first pass surface. The sheets of mesh should be overlapped by a minimum of 100mm and diagonal patches (300mm x 200mm) should be installed diagonally at the corners of all openings such as windows and door stress areas. Follow immediately with second 4mm pass wet on wet passes same day using K Rend HP 12. Rule to line and level, allow to pick up & semi set. Finish the surface using a plastic float to finish the surface universally smooth. Allow to cure for a minimum 14 days. It is important to ensure that the background is fully dry moisture free and protected from rain while curing, prior to the application of TC Primer. See Full Mesh drawing below.

Thickness: 8mm

All scaffold planks should be brushed, free of all cement dust, debris etc prior to Primer & TC (thin coat) finish applications.

K Rend Primer TC apply by brush or roller onto the fully cured K Rend HP 12 Basecoat. Allow to cure for a minimum 24 hours prior to application of TC 15 thin coat finish.

K Rend Silicone TC 15, apply by hand in a continuous application, always working to a wet edge. Apply to the thickness of the largest aggregate. If possible, entire sections or elevations should be coated in a single operation using the same batch to avoid joint marks in the finish.

Finishing

Allow Silicone TC 15 to take up slightly prior to rubbing up in a circular motion (using a plastic float or steel trowel) to create the final uniform texture. All finished TC 15 elevations should be protected from inclement weather conditions, while in the first 2 days of curing, specifically in Winter temperatures.

Finish: Fine textured / 1.5mm

Total Render Thickness: 10mm

If possible entire sections or elevations should be coated in a single operation using the same batch to avoid joint marks in the finish. When straightening, hollows should be filled out immediately before a skin is formed. Care should be taken to avoid small hollows, which can make it difficult to achieve a good finish. Small areas such as quoins, reveals and bands can be left with a plastic float finish. Do not polish. Plinth areas should be rendered and finished following removal of scaffolding and completion of groundworks.

OTHER CONSIDERATIONS

Site Conditions

K Rend Products have a working temperature range of 5°C to 35°C. The product should not be applied in the rain or mist, at temperatures above 35°C or below 5°C or if exposure to frost is likely to occur during curing.

In sunny weather work should commence on the shady side of the building and be continued round following the sun to prevent the render drying out too quickly. In cold weather, if frost is forecast, work should stop in time to allow the material to set sufficiently to prevent frost damage. Curing times will vary accordingly to wind, temperature, and humidity.

Cleaning of Tools

Clean tools and equipment with water immediately after use. Residue from cementitious products must not enter the drainage system.

Curing

All rendered areas should be protected from rain, mist and cold for at least 48 hours after the application of the product. Care should be taken to protect the completed render from drying out too rapidly due to direct sun or drying wind.

Repairs

Damage to the products should be repaired immediately and carried out in accordance with the relevant section of BS EN 13914-1. Advice from the manufacturer should be sought. The finished façade, in common with all finishes, should be protected from all potential site damage.

Algae

The product contains an algae resistant additive which gives enhanced resistance to algae growth however local conditions may still allow algae growth on the render surface. An annual coat of fungicidal wash can prevent algae from growing on facades which can be prone to algae by remaining wet over prolonged periods.

Lime Bloom

The cementitious product / HP 12 basecoat may be subject to lime bloom however this may be reduced by proper protection during curing and avoiding application in adverse weather conditions, while in the early stages of curing only. To avoid the appearance of lime bloom do not render in cold, damp weather. Generally, a two-day window of good weather is required to minimise the occurrence of lime bloom.

Do not permit down pipes, sills, copings and scaffold boards to throw water onto the setting render. Do not allow washings from quoins, sills etc, to run on to the setting render.

Maintenance

Regular maintenance checks should be carried out. Where general staining occurs a warm power wash with suitable detergent can be used to clean up the finish. Care must be taken to adjust the pressure of the power washer to ensure that the render surface is not damaged during the procedure.

Product Training

K Rend offer product training courses to assist in the use of best practice when applying K Rend products.

Additional Recommendation

For additional surface protection K Rend product **K Pro** exterior sealer is recommended onto the finished Silicone TC 15 surface to reduce maintenance cycles.



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KR50-03 Dense Concrete

KR50 - 03 Silicone TC15 onto Dense RC Concrete
- HP12 Basecoat



Silicone Coloured Renders

SPECIFICATION

Reference:	KR50 – 03 Sil TC 15 Finished onto HP 12 Base / Dense Concrete
Manufacturer:	Kilwaughter Minerals Ltd 9 Starbog Road, Larne, Co. Antrim, BT40 2TJ, N. Ireland
Telephone:	028 2826 0766
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Email:	Sales@K-rend.co.uk



JOB DESCRIPTION

Clause: M20 - PLASTERED / RENDERED / ROUGHCAST COATINGS

To be read with Preliminaries/General Conditions

160 Proprietary Cement Gauged Render

Summary: **K Rend Sil TC 15 Finished onto HP 12 Base onto Dense RC Concrete**

Substrate: **Dense / RC Concrete**

Prep/Base Coat: **K Rend HP 12 Basecoat.**

Applied in Two x 4mm passes with Glassfibre Meshcloth embedded to stress area only.
Rule to line & level, allow to semi set & finish the surface smooth using plastic float to rub up.
Allow to cure for 14 days, prior to TC Primer & Sil TC 15 finish.

Thickness: 8mm

Primer: **K Rend Primer TC**

Colour: Selected by Specifier (Primer colour co-ordinated with finish coat Sil TC 15).

Finish Coat: **K Rend Silicone TC 15**

Colour: Selected by Specifier

Finish: Fine Textured 1.5mm.

Total Thickness: **10mm**

See section on Application.

K Rend Products should be applied strictly in accordance with the manufacturer's instructions and specifications and the relevant sections of BS EN 13914-1. Further guidance is available in the British Board of Agrément, Certificate No.97/3428 and the National Standards Authority of Ireland (NSAI), Agrément, Certificate No.06/0248.

If these instructions are not followed closely, a satisfactory finish may not be achieved and Kilwaughter Minerals Ltd will accept no responsibility. This specification is valid for 6 months from date of issue. Thereafter details should be re-checked with Kilwaughter Minerals Ltd.

DESIGN CONSIDERATIONS

Certain locations may require an additional depth of render due to the exposure to wind driven rain. Advice should be sought from Kilwaughter Minerals Ltd.

New construction to be rendered should be designed and constructed in accordance with the relevant recommendations of BS EN 13914-1.

Render should only be applied to mature, stable surfaces. New walls to be rendered should be left as long as possible to minimise substrate movement (typically 28 days).

In order to achieve the best finish K Bead PVC Angle, Stop, Bellcast, Drip and Expansion beads should be used. The K Bead range is available with all K Rend Products from Kilwaughter Minerals Ltd. Advice about movement joints to be detailed by the site engineer (typically every 6 x 6 sq m² on RC Concrete) or expressed in façade construction joints.

Render must not be applied to horizontal or sloping surfaces. Rendering should not be continued over movement joints, damp proof courses, weep holes or air vents.

An adequate flashing must always be provided to prevent water penetrating behind the render.

Suitably designed overhangs and flashings should be provided to prevent water washing onto the façade. A generous overhang or eave should be designed, and all sills and copings should have sufficient drips, including mortar joints at coping. Gutters and down-pipes must also be designed to keep water off the façade, temporary guttering and down pipes may be required to help keep the surface as dry as possible.

In order to minimise damage to the rendering, consideration should be given to installing fixings for rainwater, soil and vent pipes before rendering commences. The pipes themselves should be fitted after rendering is completed. Fixings should be made of stainless steel to minimise the risk of corrosion.

Independent scaffolding should be used to minimise scaffold ties and avoid the need to repair plug holes. Enough height and clearance should be allowed to enable satisfactory completion of the rendered finish.

Some construction materials may be susceptible to alkali attack. Fittings and adjacent surfaces that are likely to be damaged during rendering should be protected.

A Plinth detail is recommended below DPC level to provide a splashback and minimise colour issues at ground level.

It is advised that a project visit is carried out at least one week in advance of render application start date, evaluating any preparation issues.

BACKGROUND AND PREPARATION

Dense RC Concrete

All other trades should have first fix works completed and the building perimeters made watertight by others.

The background should be assessed by the contractor to ensure that it is suitable to receive the K Rend System. When doing so it should also be checked for line and level to decide if the render can be applied in a uniform thickness or if dubbing out is required. Following suitable preparation of the substrate, Prep Coat should be used for any dubbing out & alignment correction coat where required, prior to perimeter beading. The surface of the Prep Coat should be keyed horizontally using a plastering scratcher and allowed sufficient time to cure. Dub out coats in excess of 8mm will require Glassfibre meshcloth to be embedded.

All necessary repairs must be carried out before application. All damage to substrate from salt attack, corrosion or salts (including efflorescence) must be carefully prepared. Damaged masonry must be replaced and any holes or insufficiently filled joints repaired. Additional K Rend Alkali Resistant Reinforcing Mesh to be used at these areas.

Any structural cracking in the background should be brought to the attention of a structural engineer and stabilised prior to rendering.

It is recommended that additional alkali resistant reinforcing mesh is used in areas likely to suffer from stress cracking. This can be done by applying Prep Coat, bedding mesh into it whilst it is still wet and leaving the Prep Coat with a light scratch prior to setting. K Rend Alkali Resistant Reinforcing Mesh is available with all K Rend Products from Kilwaughter Minerals Ltd. See section drawing for this detail.

The surface must be clean and free from any loose or friable material including paint, oil, soot, lichens, oil release agents surface dust or cement laitance. If there is any algae present it should be treated with a proprietary fungicidal wash or surface biocide (i.e. K Rend - Algae Clean) and then pressure washed to remove any residue. Biocide supplier's instructions to be followed.

All scaffold planks should be brushed free of all dust and debris prior to the application of render, specifically finished TC 15 applications.

The products in this specification should not be applied to frost affected or saturated walls.

Apply suction control as necessary, it may be necessary to damp down walls prior to applying the product to control suction. Rendering should not be applied to walls which have been subject to rain over several hours.

Prep Coat should be applied to areas with poor key, such as smooth concrete lintels using Prep Coat / HP 12 basecoat & finished with a light surface scratch / key.

PRODUCT

K Read / Beading (see section on Beads)

K Rend / HP 12 Basecoat (Basecoat cementitious polymer formulated render embedded with Alkali Glassfibre Mesh)

K Rend / TC Primer (colour co-ordinated with TC 15 finished coat) Seal , suction control & same colour wash.

K Rend / Silicone TC 15 Finish. (thin coat synthetic resin plaster).

K Rend / K Pro (Exterior Sealer) Optional.

Colour as selected by the Specifier.

Samples are provided on request for colour indication only, it is always recommended that a physical sample of the colour and product is checked before the product is used.

It is recommended that a test panel (ideally 2m²) be produced for inspection by the customer (client, architect etc.). Work should not commence until the customer is satisfied with the appearance of the product.

Tendering applicators should be familiar with product water requirement, handling characteristics, setting and hardening times. These may vary according to background temperature and humidity. The test panel should be prepared well in advance of work commencing.

K Rend HP 12 basecoat products are delivered in 25 kg bags / 40 bags on a pallet (1Tonne).

The liquids product TC Primer & Sil TC 15 is delivered in sealed 20 / 15 / 25kg tubs on pallets.

Storage

Product sacks, even when protected by hoods, are only shower proof, and should be further protected to prevent damp causing caking of the product. The shelf life is 1 year from date of manufacture if stored off the ground in dry conditions, protected from frost and sunlight, in original unopened packaging.

It is important to note that all K Rend Products are non-returnable.

Health and Safety

A Material Safety Data Sheet is available from the manufacturer and should be read prior to commencement of any rendering.

APPLICATION METHOD

K Rend Products should be applied strictly in accordance with the manufacturer's instructions and specifications and the relevant sections of BS EN 13914-1. Further guidance is available in the British Board of Agrément Certificate No. 97/3428 and the National Standards Authority of Ireland (NSAI) Agrément Certificate No. 06/0248.

Dubbing Out

All dubbing out coats necessary to correct any surface alignment should be carried out as a first step, prior to beading using Prep/ Basecoat only.

Beading

All beading should be adhesively pasted, encapsulating the bead web using Prep Basecoat for stability.

All beading should be fixed to the substrate and aligned accurately, prior to application of render basecoats. Adhesively set beads will require One day to set & cure, prior to façade applications.

- K Beads Required**
- 6mm Angle beads adhesively expressed and set to minimum depth 7 -8mm.
 - 6mm Movement beads adhesively expressed and set to a minimum depth 7 -8mm.
 - 11mm Bellcast beads expressed at DPC elevated to 14 - 16mm front edge.

Mixing

K Rend is supplied in 20 Kg buckets. Simply stir using drill & paddle for 3 - 4 minutes.

K Rend HP 12 requires approximately 5-6 litres of clean water per 25kg. Consistency in proportions is essential to ensure an even finish. Mix thoroughly, using either Drum site mixer for larger volumes or Drill & Paddle, it takes at least 10 minutes to dissolve the powder additives. For best results, mix for 5 minutes, allow K Rend HP 12 a void period of not mixing, 4-5 minutes and then re-mix again for 2 - 4 minutes, enhancing a wider working window while applying & using this product.

When using Plastering Machines for HP 12 applications, the optimal settings should be checked with Kilwaughter Minerals Ltd, technical team.

TC Primer are supplied to the customer in 15 Kg buckets, simply requires drill & paddle mix for Two minutes (no water) Silicone TC 15 are supplied to the customer in 25 Kg buckets & will also need drill & paddle mixed using a little clean water during mix procedure. The same ratio of water should be measured accurately for each bucket of Sil TC 15, creating a uniform finished colour for all applied perimeters façades.

Once the products have been mixed to the desired consistency additional water should not be added. The products should not be remixed once the material has started to set.

Application

Perimeter beading see section on beading.

K Rend HP 12 Base, apply either by machine or by hawk and trowel in 4mm first pass depth. Whilst the HP 12 Base is still wet K Rend alkali resistant reinforcing mesh is embedded diagonal using patches (300mm x 200mm) at window & door stress areas only. Follow immediately with Second 4mm pass wet on wet passes same day using K Rend HP 12. Rule to line and level, allow to pick up & semi set. Finish the surface smooth using a plastic float to rub the surface universally. Surface float marks are then surface removed using a handheld dry sponge, surface dragged vertically. Allow to cure for a minimum 14 days. It is important to ensure that the background is fully dry moisture free and protected from rain while curing, prior to the application of TC Primer. See section drawing for meshcloth detail.

Thickness: 8mm

All scaffold planks should be brushed, free of all cement dust, debris etc prior to Primer & TC (thin coat) finish applications.

K Rend Primer TC apply by brush or roller. Allow to cure for a minimum 24 hours prior to application of TC 15 thin coat finish.

K Rend Silicone TC 15, apply by hand in a continuous application, always working to a wet edge. Apply to the thickness of the largest aggregate. If possible, entire sections or elevations should be coated in a single operation using the same batch to avoid joint marks in the finish.

Finishing

Allow Silicone TC15 to take up slightly prior to rubbing up in a circular motion (using a plastic float or steel trowel) to create the final uniform texture. All finished TC 15 elevations should be protected from inclement weather conditions, while in the first 3 days of curing, specifically in Winter temperatures.

Finish: Fine textured / 1.5mm

Total Render Thickness: 10mm

If possible entire sections or elevations should be coated in a single operation using the same batch to avoid joint marks in the finish. When straightening, hollows should be filled out immediately before a skin is formed. Care should be taken to avoid small hollows, which can make it difficult to achieve a good finish. Small areas such as quoins, reveals and bands can be left with a plastic float finish. Do not polish. Plinth areas should be rendered and finished following removal of scaffolding and completion of groundworks.

OTHER CONSIDERATIONS

Site Conditions

K Rend Products have a working temperature range of 5°C to 35°C. The product should not be applied in the rain or mist, at temperatures above 35°C or below 5°C or if exposure to frost is likely to occur during curing.

In sunny weather work should commence on the shady side of the building and be continued round following the sun to prevent the render drying out too quickly. In cold weather, if frost is forecast, work should stop in time to allow the material to set sufficiently to prevent frost damage. Curing times will vary accordingly to wind, temperature and humidity.

Cleaning of Tools

Clean tools and equipment with water immediately after use. Residue from cementitious products must not enter the drainage system.

Curing

All areas should be protected from rain, mist and cold for at least 48 hours after the application of the product. Care should be taken to protect the completed render from drying out too rapidly due to direct sun or drying wind.

Repairs

Damage to the products should be repaired immediately and carried out in accordance with the relevant section of BS EN 13914-1. Advice from the manufacturer should be sought. The finished façade, in common with all finishes, should be protected from all potential site damage.

Algae

The product contains an algae resistant additive which gives enhanced resistance to algae growth however local conditions may still allow algae growth on the render surface. An annual coat of fungicidal wash can prevent algae from growing on facades which can be prone to algae by remaining wet over prolonged periods.

Lime Bloom

The Prep/ basecoat product may be subject to lime bloom however this may be reduced by proper protection during curing and avoiding application in adverse weather conditions. To avoid the appearance of lime bloom do not render in cold, damp weather. Generally, a two-day window of good weather is required to minimise the occurrence of lime bloom.

Do not permit down pipes, sills, copings and scaffold boards to throw water onto the setting render. Do not allow washings from quoins, sills etc, to run on to the setting render.

Maintenance

Regular maintenance checks should be carried out. Where general staining occurs a warm power wash with suitable detergent can be used to clean up the finish. Care must be taken to adjust the pressure of the power washer to ensure that the render surface is not damaged during the procedure.

Product Training

K Rend offer product training courses to assist in the use of best practice when applying K Rend products.

Additional Recommendation

For additional surface protection K Pro exterior sealer is recommended as added protection to the finished render façade and to reduce maintenance cycles. (Optional)



(FileNo.5010 25/02/21)

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In line with our policy of continuous improvement, we reserve the right to change technical data without notice.

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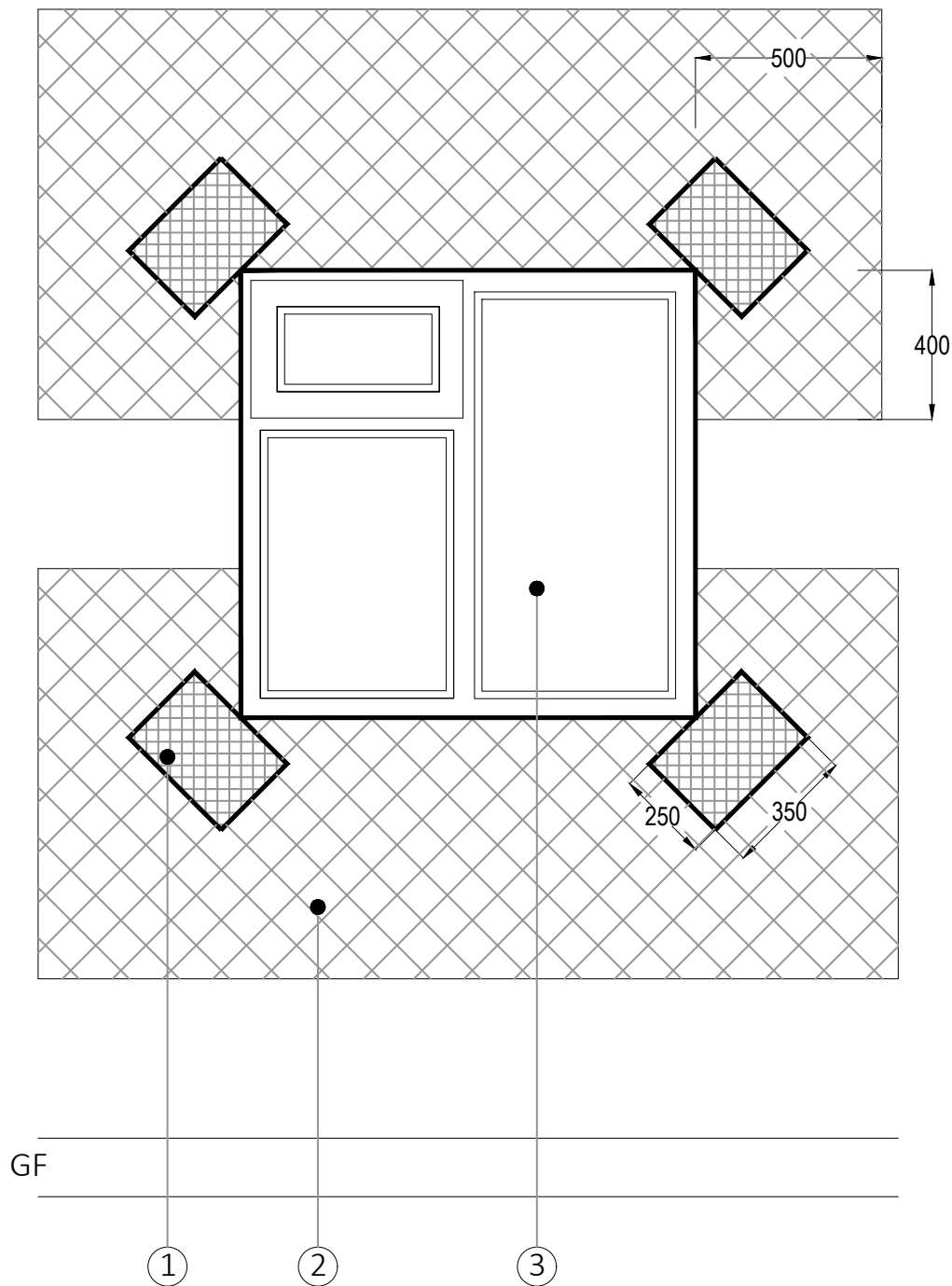
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**Items:-**

- 1 - Alkali Resistant Glass Fibre Mesh installed so that the corners form an L to reveals (i.e. do not install to follow bottom or top of opening)
- 2 - K Rend Alkali Resistant Glass Fibre Mesh installed diagonally over main mesh, to all opening corners.
- 3 - Window



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Drawing title:
General Detail
Stress Patches

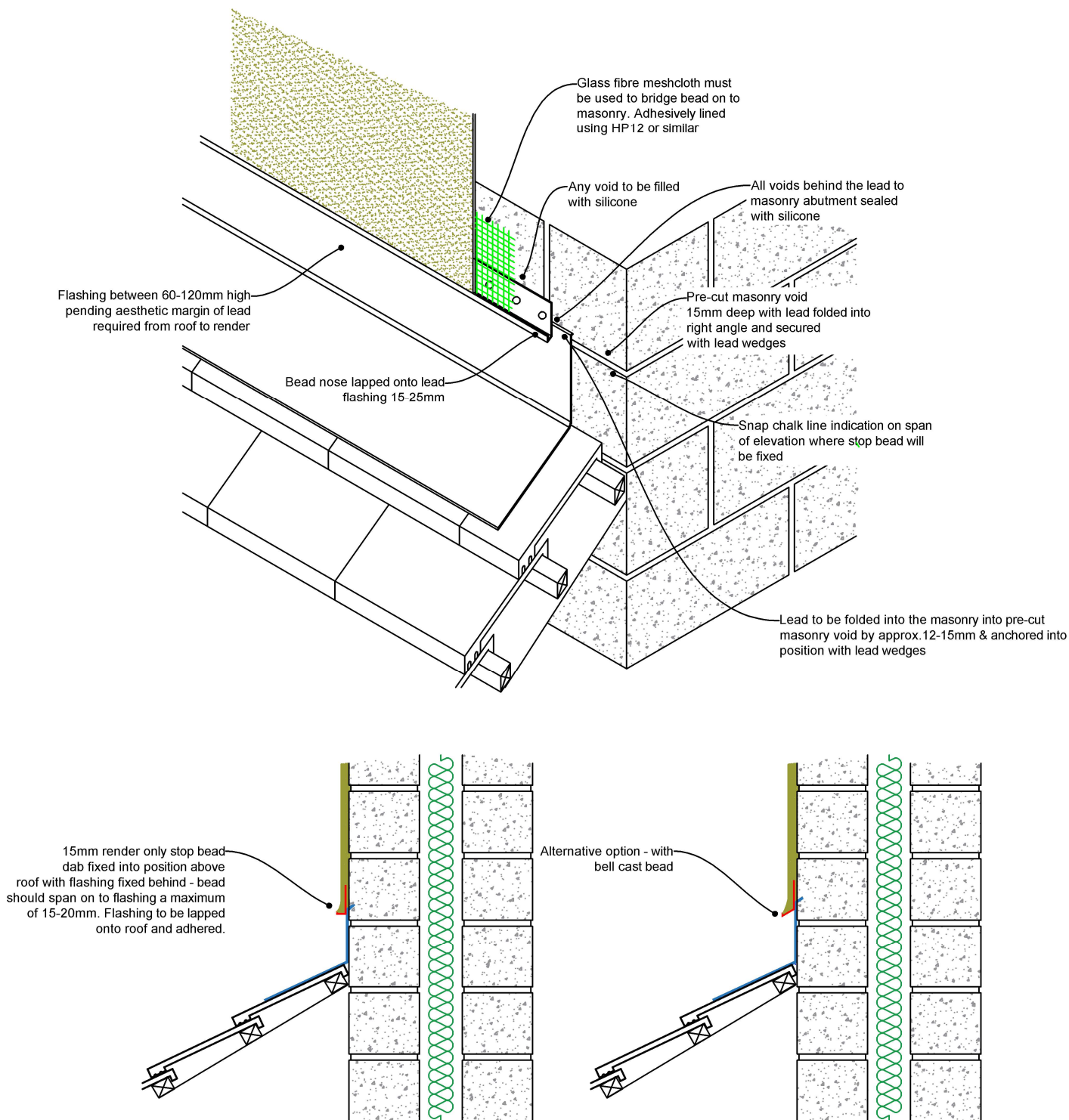
Detail is valid only when approved by the Architect / Contractor concerned

Drawing No:
KML-034

Scale:
NTS

Revision:

Date:
July 2019



DRAWING REF:

General Details

TITLE:

Flashing Over Pitched Roof

SCALE:

Not To Scale

DATE:

May 2019

Kilwaughter Minerals Ltd

9 Starbog Road

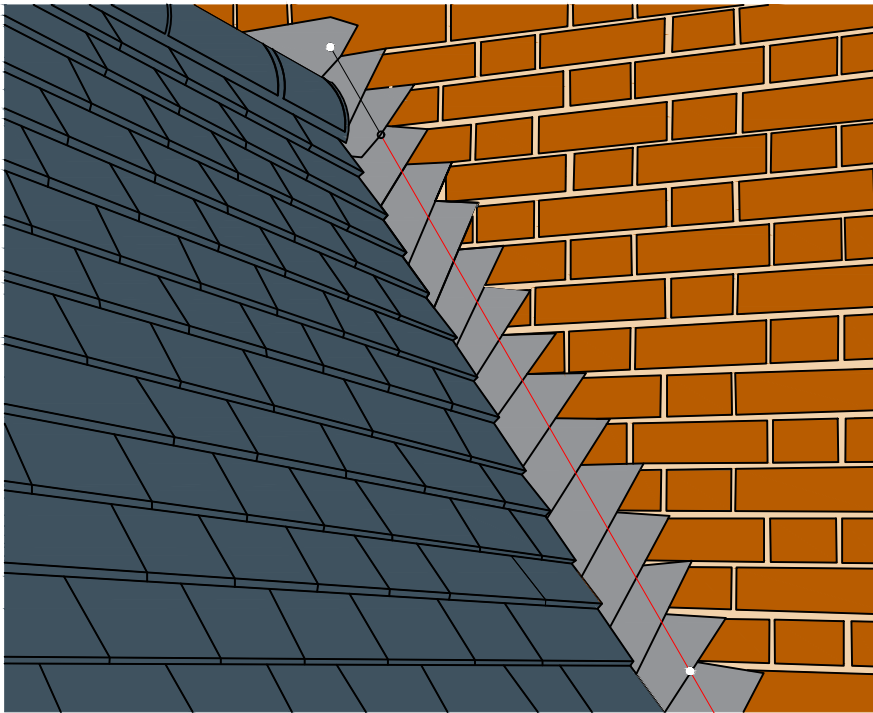
Larne

Co. Antrim BT40 2TJ

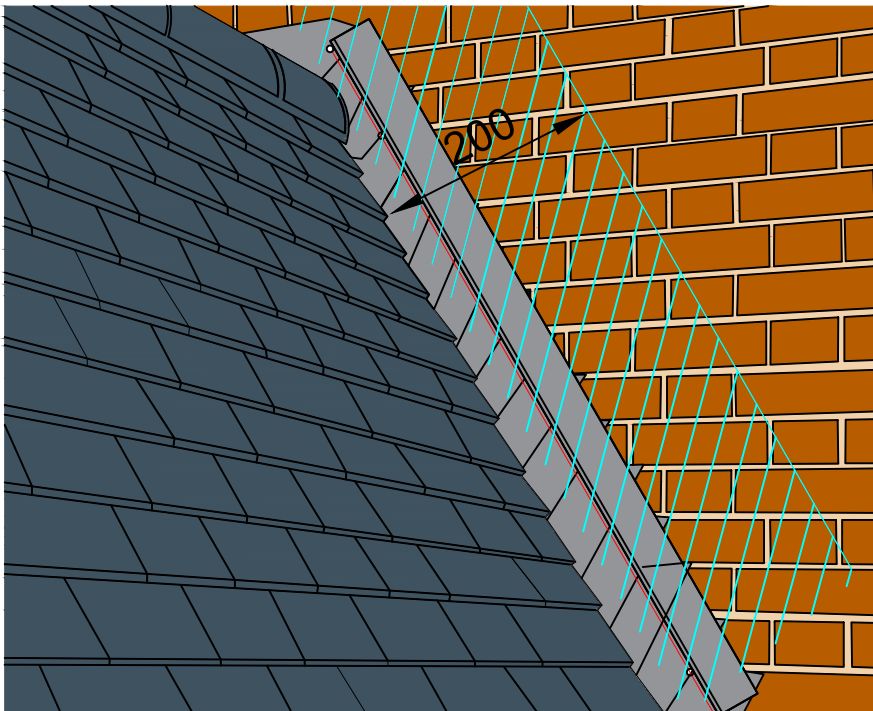
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1. Using a small diameter steel nail & hammer embed nail through the lead & into masonry by 10-12mm deep at the intersection where lead staggers masonry+ 10mm closer to the roof tile surface. The margins should be the same from roof tile surface to the inserted nails along the span of the roof pitch area
2. Anchor a chalk line on to one of the inserted nails & pull towards the nail in the middle to give an indicator line along the lead span. Extend the line to 1A (ridge point) using straight edge positioned parallel with pre-stuck chalk line indicator & use black marker indicator mark, traced onto lead.
3. Using only a PVC 15mm stop bead. Adhesively secure bead, using an external grade silicone (clear colour). Paste moderately, the silicone to the rear of the PVC bead bottom edge, following protruding aris. Parallel with pre-stuck chalk line indicator. Lead surface should be moisture free with good surface alignment, ensuring the bead is adhesively anchored. Allow silicone 24 hours set time pending seasonal temperatures. Note: Roof protection is advised & stages to follow.



4. Using K Rend HP12 mixed to a soft but an easily spread consistency, apply 3mm thickness to the area hatched in cyan (from inside edge of bead nose to pre-coated masonry area)
5. K Rend Alkali Resistant Reinforcing Mesh is then embedded into the pre-coated 3mm HP12 surface for the line (hatched) area involved. Follow with additional 2mm application of HP12 to encapsulate the mesh concluding with a horizontal light scratch on HP12 surface. Allow the 5mm depth of HP12 application 2 days to cure, prior to top or finished K Rend application on surface.



DRAWING REF:

General Details

TITLE:

Render Bead Over Pitched Roof

SCALE :

Not To Scale

DATE :

May 2019

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