# SPECIFICATION - "BAUDER GREEN ROOF SYSTEM"

**CLIENT:** NICK BAKER ARCHITECTS **BAUDER REF: V1298**

**CONTRACT:** DELANCEY STREET **DATE: 18/9/2007**
SEDUM FLAT ROOFS

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**THE BAUDER XEROFLOR SEDUM BLANKET SYSTEM INCORPORATING BAUDER PIR FLATBOARD INSULATION OVER A NEW CONCRETE DECK.**

## SITE CONDITIONS:-

The following specification proposal is based on the below-mentioned information provided at design stage:-

New Concrete Deck
Flatboard Insulation (thickness to be advised)
1° - 2° Slope
Sedum Finish

It is imperative that should this information change for whatever reason, then Bauder should be contacted so that the specification can be amended accordingly.

## NEW CONCRETE DECK (TO BE FINISHED TO A WOODFLOAT FINISH)

Prepare the surface of the deck by removing rough edges, nibs in the deck. If the surface is very rough a skin screed of concrete should be applied to give a smooth surface. Prime all areas receiving the new waterproofing with bitumen primer and allow to dry. ***Ensure that any "backfalls" in the deck surface are avoided and rectified prior to the installation of the new waterproofing system.***

## VAPOUR BARRIER

**Bauder VB4-EXPAL,** 3.5mm thick aluminium lined, elastomeric bitumen vapour barrier, fully bonded to the deck by torching. Laps to be 100mm. The vapour barrier must be taken up all upstands, perimeter edges, and high enough to form a waterproof layer, and later to form a seal with the underlayer.

## IMPORTANT NOTE

The **Bauder VB4-EXPAL** must be dressed up all upstands above the insulation to a height of 150mm minimum. This is to ensure that a 100mm lap is constructed above the Eurotherm angle fillet. The contractor is to form all perimeter details in such a way that a 100mm lap is obtained between the vapour barrier and the underlayer.

## VAPOUR BARRIER INSPECTION

The Vapour Barrier must be inspected prior to laying insulation, in particular that it has been dressed up the upstands high enough to form a seal with the underlayer at a later stage. In the event that any upstands are seen to be below that which is necessary remedial work will have to be carried out in accordance with Bauder's instructions prior to the contract proceeding

## INSULATED UPSTANDS

Where applicable, supply and fix **Bauder insulated upstand supports**, to all upstands. These are to be fixed at 400mm centres using suitable fixings through the vapour barrier, so that the top edge is a minimum of 300mm above the surface of the deck. A 3mm gap should be left between adjacent sections.
**Bauder PIR flatboard** insulation, 30mm thick is to be applied to all upstands, inserted into the support to provide an insulated upstand height of a minimum 300mm from the surface of the deck. **The detail is to be carried out in accordance with the Bauder detail drawing provided.**

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## INSULATION

**Bauder PIR flatboard**, fire resistant, zero ODP, highly efficient rigid urethane insulation, thickness to be advised, fully bonded to the vapour barrier in hot bitumen 95/25. The side with the **Bauder** name stamped on, must be laid face upwards. The boards are to be close butted and staggered. The insulation boards are to have their faces 'blacked out' using 95/25 hot bitumen to a width of 400mm at all upstands and details. This includes all perimeter edges, including rooflights, rainwater outlets, vent pipes, etc.
**'U' value based upon 150mm dense concrete deck with no further products beneath.*

## UNDERLAYER

**Bauder G4E -** 4mm thick, glassfibre reinforced, elastomeric bitumen underlayer, partially bonded to the insulation by torching in the approved Bauder manner. Head laps to be 100mm, side laps to be 80mm. A 40% bond per $M^2$ must be achieved on the main roof area. The underlayer must be fully bonded at all perimeter edges, including rooflights, rainwater outlets, vent pipes, etc. to a width of 400mm. The underlayer must be taken up all upstands, edge details, in accordance with Codes of practice.

## UNDERLAYER INSPECTION

No capping sheet is to be laid before the underlayer has been inspected by **Bauder Ltd.** This is to ensure that any remedial treatment that is necessary can be carried out prior to laying the capping sheet.

## ROOT RESISTANT LAYER

**Bauder Plant-E,** 5mm thick, chemically treated, root resistant capping sheet to be fully bonded to the underlayer by torching. All head and side laps to be 100mm, with a minimum bitumen extrusion of 20mm (exposed areas will be subject to Bauder's normal 5/10mm bead of bitumen extrusion). The Bauder Plant-E must be dressed up all upstands, edge details, etc. in accordance with Bauder's detail drawings. This layer should be dressed up a minimum of 150mm above the finished landscape surface, according to relevant Codes of Practice, or as otherwise detailed by Bauder Limited.

## INSPECTION

No green roof build up is to be applied until the root resistant capping sheet has been thoroughly inspected by the Independent Surveyor and/or Bauder Ltd. This is to ensure that any remedial treatment that is necessary can be carried out prior to laying the sedum blanket. Failure to ensure the instigation of this inspection will result in the issuing of the insurance backed guarantee being put in jeopardy.

## UPSTANDS, EDGE DETAILS, FLASHINGS, ETC

Detail work to be carried out in **Bauder K5K Charcoal Grey** in accordance with current British Codes of Practice. Side laps to be 80mm, head laps to be 100mm.

## TECHNICAL NOTES

[1] 50mm x 50mm Bauder PIR angle fillets must be used at all right-angled upstands. Under no circumstances must fillets of an alternative material be incorporated (i.e. cork, fibre, etc.), as this would invalidate the guarantee.

[2] In areas that the contractor considers to be a high fire risk, **Bauder TA600** should be installed; either by random nailing with large headed galvanised clout nails at 200mm minimum centres, or by fully bonding in hot bitumen of a suitable grade. **Bauder Limited** must be consulted before taking this action.

[3] Against all insulation boards where the edge of the board is susceptible to mechanical damage, provision is to be made to supply and fix a timber protection batten of the same height. This to be suitably mechanically fixed to the roof deck.

[4] Any peculiarities or details discovered which might affect the performance of the **Bauder** system, should be reported immediately to the specifier and **Bauder Limited** in order that we may assist in overcoming the problem.

[5] The contractor is to ensure water tightness of the roof at all times. Proper day joints must be formed at the end of each working day to provide a temporary seal. No mopping or loose covers will be permitted. Materials used from the day joint, which are not part of the **Bauder** System must be cut away and removed prior to continuation of the works so that unnecessary build up of laps is avoided.

[6] Where building works are to be carried out by other trades, following completion of the waterproofing, the contractor must make adequate provision for supplying protection to prevent damage to the new membranes. The independent surveyor will not carry out the final inspection until all associated trades are complete and the roof areas are clear from all debris and protection layers.

[7] All mechanical and electrical work to plant and equipment, should be carried out by competent mechanical and electrical qualified tradesmen. All plant is to be reinstated and recommissioned on completion of the roofing works in accordance with the client's detailed specification.

[8] If any items of plant/equipment are to be situated on the finished roof, a sacrificial layer of Bauder capping sheet is to be loose laid beneath. This is to extend a minimum 25mm past the point of contact all round. In the case of heavy items it may be necessary to introduce a load spreading slab, please contact Bauder for further advice.

## UPSTANDS TO DETAILS

The minimum recommended height for constructing waterproofing details is 150mm from the top of the installed landscaping. Special attention should be paid to all structures, such as rooflights, counterflashings, window and door cills, etc. These may have to be raised to enable a 150mm high waterproofing detail to be formed. We cannot take responsibility for water ingress over waterproofing details insufficiently high.

## FLASHING DETAILS

Separate flashings must always be formed. The capping sheet taken up a detail in one piece will not be permitted.

## INTERNAL OUTLETS

[1] All outlets must be carefully examined for damage and proper seating. Any faults must be rectified.

[2] The contractor must ensure that the waterproofing is firmly sealed to the outlet and installed in a manner as to not impede water flow to the outlet, i.e. eliminate potential water checks.

[3] The contractor must ensure that all outlets are unblocked during and at the completion of the contract.

[4] All installed rainwater outlets must be fitted with their respective grille covers.

**Outlet Cover (for hard landscaping areas)**

The contractor shall provide suitable outlet inspection covers over all rainwater outlets on completion of the contract.

## SOFT LANDSCAPING

## IMPORTANT NOTE

**In the event that other trades are required on the roof, the scheduling of work should be such that the installation of the soft landscaping element is the final operation to be carried out. This will ensure that the sedum blanket is not used as a working platform, and will therefore maximise its establishment.**

## BAUDER EXTENSIVE INSPECTION CHAMBERS

Supply and install **Bauder Extensive Inspection Chambers** to all outlet positions within the roof area. The contractor is also to allow for the installation of additional Bauder height adapter rings as required, in order to bring the inspection chamber up to at least the height of the planting build-up. The inspection chamber must have a vegetation barrier installed around it so as to prevent root growth entering the drainage system.

**Please note: Where a box gutter is to be constructed, provision should be made to accommodate the 350 mm diameter of the inspection chamber. We recommend that all box gutters are constructed to a minimum finished width of 500mm to ensure that the support feet of the inspection chamber sufficiently clears the angle fillets within the gutter sole and leaves space to dress the pebble vegetation barrier around the body of the chamber.**

## FILTRATION AND DRAINAGE LAYER

**Bauder SDF mat**, 20mm thick filtration and drainage layer to be laid over the waterproofing, close butted and staggered. The **SDF mat** is to be taken beneath all vegetation barriers, stopping short of any edge trims if these are being used. All works to be carried out in accordance with Bauder Ltd's recommendations.

## VEGETATION BLANKET – SHORT ROLLS

**Bauder XF301 'Sedum' combination blanket with integral moisture retention fleece.** Laps to be close butted and staggered. The flap of fleece along one edge of the blanket is to be folded out to enable the adjacent blanket to be lapped over. The **XF301 sedum combination blanket** is to be dressed tightly into the **Bauder SS40** drainage trim at perimeters, abutment details etc. Where vegetation barrier is specified, this must extend on to the exposed edge of blanket by a minimum of 100 mm to provide protection against wind uplift and erosion. The sedum vegetation blanket has a nominal thickness of 28mm, excluding growth, and a saturated load of approximately 42-45kg/m². Blankets must be handled with care to avoid sedum/substrate loss. **Any excess pieces of vegetation blanket must be removed from the roof immediately on completion. Any areas of soil loss must be filled with substrate followed by sedum cuttings.**

Bauder XF301 achieves an Ext. F.A.A fire rating under BS 476: Part 3 1958.

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***Important note***

During hot weather conditions, the vegetation blanket must be un-rolled on the day of delivery to site. Any rolls not installed should be kept watered prior to final installation. During colder weather they should be rolled out and used within 48 hours. Under no circumstances must they be allowed to remain rolled up for longer periods of time.

## SLOW RELEASE FERTILISER

Fertigrün organic slow release fertiliser must be applied at a rate of 80g/m² onto the newly laid XF301 sedum blanket. This is available from Bauder Ltd. Care must be taken to distribute the fertiliser evenly, through use of an approved applicator. **The vegetation blanket should then be thoroughly saturated by the use of sprinklers so as to promote rapid establishment. It is the responsibility of the roofing contractor to liaise with the main contractor/ building owner to provide water to ensure that the vegetation mat does not dry out within the first month.**

## VEGETATION BARRIER/DRAINAGE BARRIER

All perimeters, gutters, abutments, protrusions etc. must be protected by a vegetation barrier, approximately 300mm in width. If there are adjacent buildings within 6 metres and the barrier functions also as a fire-break, then the width of the vegetation barrier should be increased to 500mm. We recommend 20/40mm rounded sand washed stones. Other materials may be used, but only after consultation and agreement with Bauder Ltd. **The vegetation barrier is to cover the edges of the sedum blanket by approximately 100 mm in order to protect against wind uplift and substrate erosion.**

## BAUDER SS40 EXTENSIVE DRAINAGE TRIM

Supply and install Bauder SS40 drainage trim to all perimeters only.
Attachment: The SS40 trim is to be secured in place by separate pieces of torch applied Bauder Plant-E capping sheet cut into strips 1000mm x 200mm, these bituminous flashings should be torched through the holes in the trim to the waterproofing surface and set at intervals of 400mm, lapping onto the main capping sheet by a minimum 100mm.

## WORKMANSHIP

[1] The **Bauder** System can *only* be laid by properly certified operatives, who have been trained by **Bauder Ltd** or approved by **Bauder Ltd** and hold the certificate of approval.

[2] The **Bauder** System must be laid with the use of roll bars, as provided by **Bauder Ltd** or equal and approved.

[3] Workmanship that is incorrect and not to Codes of Practice B.S. 8217:1994, will not be permitted, even if the system is watertight. The client will be told that all such faults must be remedied, before the Guarantee is issued.

[4] Any building work that is the responsibility of the roofing contractor and, has a bearing on the life of the **Bauder Green Roof System** must be carried out by properly trained tradesmen.

[5] Consideration must be given by the contractor at all times to the aesthetic appearance of the roof, i.e. alternate head laps to be in line and no unnecessary short pieces of capping sheet are to be used.

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***Important Note***

It is imperative that the contractor conforms to the workmanship criteria as listed above. Any deviation from this will result in the contract being considered unguaranteeable by our insurers.

**SPECIAL NOTE:**

The contractor is to notify the Bauder Area Technical Manager of the time and place of the pre-contract meeting as soon as this is known, in order to give him the opportunity to attend.

**For further information contact Bauder Limited.**

**Head office: T: 01473 257671**
**E: technical@bauder.co.uk**

**Area Technical Manager: Mike Jones, Tel: 07885 291982**

# SPECIFICATION - "BAUDER GREEN ROOF SYSTEM"

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**CONTRACT:** **DELANCEY STREET BIODIVERSITY ROOF** **DATE: 18/9/2007**

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## THE BAUDER SUBSTRATE SYSTEM INCORPORATING BAUDER PIR FLATBOARD INSULATION OVER A NEW CONCRETE DECK.

## SITE CONDITIONS:-

The following specification proposal is based on the below-mentioned information provided at design stage:-

New Concrete Deck
Flatboard Insulation (thickness to be advised)
0° - 5° Slope
Biodiversity Finish

It is imperative that should this information change for whatever reason, then Bauder should be contacted so that the specification can be amended accordingly.

## NEW CONCRETE DECK (TO BE FINISHED TO A WOODFLOAT FINISH)

Prepare the surface of the deck by removing rough edges, nibs in the deck. If the surface is very rough a skin screed of concrete should be applied to give a smooth surface. Prime all areas receiving the new waterproofing with bitumen primer and allow to dry. ***Ensure that any "backfalls" in the deck surface are avoided and rectified prior to the installation of the new waterproofing system.***

## VAPOUR BARRIER

**Bauder VB4-EXPAL,** 3.5mm thick aluminium lined, elastomeric bitumen vapour barrier, fully bonded to the deck by torching. Laps to be 100mm. The vapour barrier must be taken up all upstands, perimeter edges, and high enough to form a waterproof layer, and later to form a seal with the underlayer.

## IMPORTANT NOTE

The **Bauder VB4-EXPAL** must be dressed up all upstands above the insulation to a height of 150mm minimum. This is to ensure that a 100mm lap is constructed above the Eurotherm angle fillet. The contractor is to form all perimeter details in such a way that a 100mm lap is obtained between the vapour barrier and the underlayer.

## VAPOUR BARRIER INSPECTION

The Vapour Barrier must be inspected prior to laying insulation, in particular that it has been dressed up the upstands high enough to form a seal with the underlayer at a later stage. In the event that any upstands are seen to be below that which is necessary remedial work will have to be carried out in accordance with Bauder's instructions prior to the contract proceeding

## INSULATED UPSTANDS

Where applicable, supply and fix **Bauder insulated upstand supports,** to all upstands. These are to be fixed at 400mm centres using suitable fixings through the vapour barrier, so that the top edge is a minimum of 300mm above the surface of the deck. A 3mm gap should be left between adjacent sections.
**Bauder PIR flatboard** insulation, 30mm thick is to be applied to all upstands, inserted into the support to provide an insulated upstand height of a minimum 300mm from the surface of the deck. **The detail is to be carried out in accordance with the Bauder detail drawing provided.**

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## INSULATION

**Bauder PIR flatboard**, fire resistant, zero ODP, highly efficient rigid urethane insulation, thickness to be advised, fully bonded to the vapour barrier in hot bitumen 95/25. The side with the **Bauder** name stamped on, must be laid face upwards. The boards are to be close butted and staggered. The insulation boards are to have their faces 'blacked out' using 95/25 hot bitumen to a width of 400mm at all upstands and details. This includes all perimeter edges, including rooflights, rainwater outlets, vent pipes, etc.
**'U' value based upon 150mm dense concrete deck with no further products beneath.*

## UNDERLAYER

**Bauder G4E** - 4mm thick, glassfibre reinforced, elastomeric bitumen underlayer, partially bonded to the insulation by torching in the approved Bauder manner. Head laps to be 100mm, side laps to be 80mm. A 40% bond per $M^2$ must be achieved on the main roof area. The underlayer must be fully bonded at all perimeter edges, including rooflights, rainwater outlets, vent pipes, etc. to a width of 400mm. The underlayer must be taken up all upstands, edge details, in accordance with Codes of practice.

## UNDERLAYER INSPECTION

No capping sheet is to be laid before the underlayer has been inspected by **Bauder Ltd.** This is to ensure that any remedial treatment that is necessary can be carried out prior to laying the capping sheet.

## ROOT RESISTANT LAYER

**Bauder Plant-E,** 5mm thick, chemically treated, root resistant capping sheet to be fully bonded to the underlayer by torching. All head and side laps to be 100mm, with a minimum bitumen extrusion of 20mm (exposed areas will be subject to Bauder's normal 5/10mm bead of bitumen extrusion). The Bauder Plant-E must be dressed up all upstands, edge details, etc. in accordance with Bauder's detail drawings. This layer should be dressed up a minimum of 150mm above the finished landscape surface, according to relevant Codes of Practice, or as otherwise detailed by Bauder Limited.

## INSPECTION

No green roof build up is to be applied until the root resistant capping sheet has been thoroughly inspected by the Independent Surveyor and/or Bauder Ltd. This is to ensure that any remedial treatment that is necessary can be carried out prior to laying the sedum blanket. Failure to ensure the instigation of this inspection will result in the issuing of the insurance backed guarantee being put in jeopardy.

## UPSTANDS, EDGE DETAILS, FLASHINGS, ETC

Detail work to be carried out in **Bauder K5K Charcoal Grey** in accordance with current British Codes of Practice. Side laps to be 80mm, head laps to be 100mm.

## TECHNICAL NOTES

[1] 50mm x 50mm Bauder PIR angle fillets must be used at all right-angled upstands. Under no circumstances must fillets of an alternative material be incorporated (i.e. cork, fibre, etc.), as this would invalidate the guarantee.

[2] In areas that the contractor considers to be a high fire risk, **Bauder TA600** should be installed; either by random nailing with large headed galvanised clout nails at 200mm minimum centres, or by fully bonding in hot bitumen of a suitable grade. **Bauder Limited** must be consulted before taking this action.

[3] Against all insulation boards where the edge of the board is susceptible to mechanical damage, provision is to be made to supply and fix a timber protection batten of the same height. This to be suitably mechanically fixed to the roof deck.

[4] Any peculiarities or details discovered which might affect the performance of the **Bauder** system, should be reported immediately to the specifier and **Bauder Limited** in order that we may assist in overcoming the problem.

[5] The contractor is to ensure water tightness of the roof at all times. Proper day joints must be formed at the end of each working day to provide a temporary seal. No mopping or loose covers will be permitted. Materials used from the day joint, which are not part of the **Bauder** System must be cut away and removed prior to continuation of the works so that unnecessary build up of laps is avoided.

[6] Where building works are to be carried out by other trades, following completion of the waterproofing, the contractor must make adequate provision for supplying protection to prevent damage to the new membranes. The independent surveyor will not carry out the final inspection until all associated trades are complete and the roof areas are clear from all debris and protection layers.

[7] All mechanical and electrical work to plant and equipment, should be carried out by competent mechanical and electrical qualified tradesmen. All plant is to be reinstated and recommissioned on completion of the roofing works in accordance with the client's detailed specification.

[8] If any items of plant/equipment are to be situated on the finished roof, a sacrificial layer of Bauder capping sheet is to be loose laid beneath. This is to extend a minimum 25mm past the point of contact all round. In the case of heavy items it may be necessary to introduce a load spreading slab, please contact Bauder for further advice.

## UPSTANDS TO DETAILS

The minimum recommended height for constructing waterproofing details is 150mm from the top of the installed landscaping. Special attention should be paid to all structures, such as rooflights, counterflashings, window and door cills, etc. These may have to be raised to enable a 150mm high waterproofing detail to be formed. We cannot take responsibility for water ingress over waterproofing details insufficiently high.

## FLASHING DETAILS

Separate flashings must always be formed. The capping sheet taken up a detail in one piece will not be permitted.

## INTERNAL OUTLETS

[1] All outlets must be carefully examined for damage and proper seating. Any faults must be rectified.

[2] The contractor must ensure that the waterproofing is firmly sealed to the outlet and installed in a manner as to not impede water flow to the outlet, i.e. eliminate potential water checks.

[3] The contractor must ensure that all outlets are unblocked during and at the completion of the contract.

[4] All installed rainwater outlets must be fitted with their respective grille covers.

**Outlet Cover (for hard landscaping areas)**

The contractor shall provide suitable outlet inspection covers over all rainwater outlets on completion of the contract.

## SOFT LANDSCAPING

## BAUDER EXTENSIVE INSPECTION CHAMBERS

Supply and install **Bauder Extensive Inspection Chambers** to all outlet positions within the roof area. The contractor is also to allow for the installation of additional Bauder height adapter rings as required in order to bring the inspection chamber up to at least the height of the planting build-up. The inspection chamber must have a vegetation barrier installed around it so as to prevent root growth entering the drainage system.

## SLIP LAYERS

**Bauder P.E. Foil** to be rolled out loose in two layers over the root resistant layer. All laps to be 150mm with care being taken to ensure that the P.E. Foil breaks joint between layers. Sufficient foil must be allowed for to enable it to be taken up all upstand and edge details prior to installation of the protection layer.

## PROTECTION LAYER

**Bauder ECO-Mat** Protection Fleece 6 mm thick, rolled out loose over the P. E Foil. Laps to be 150 mm. Sufficient protection mat must be allowed for so that it may be taken up all upstands, edge details in accordance with **Bauder Ltd's** instructions.

## RESERVOIR LAYER

**Bauder Reservoir Board, 50mm** thick to be laid loose over the **Bauder Eco-Mat,** ensuring that the rebated boards are properly interlocked to provide adequate anchorage prior to the growing medium being laid. In the event of any confusion concerning this item, Bauder Ltd should be contacted so that advice may be given.

## FILTRATION LAYER

**Bauder Filter Fleece** to be rolled out loose over the **Bauder Reservoir board.** All laps to be 150mm.

## VEGETATION/DRAINAGE BARRIER

All perimeters, rooflights, vents, outlets etc. must be protected by a vegetation barrier, minimum 300mm wide. We recommend 20/40mm rounded river washed stones. Other materials may be used after consultation, and agreement with **Bauder.** The vegetation/drainage barrier is to be separated from the soil by the **Bauder filter fleece.** Care should be taken so as to ensure that enough filter fleece is left exposed above the finished level to allow for any settlement of the soil. Any excess may subsequently be trimmed off.

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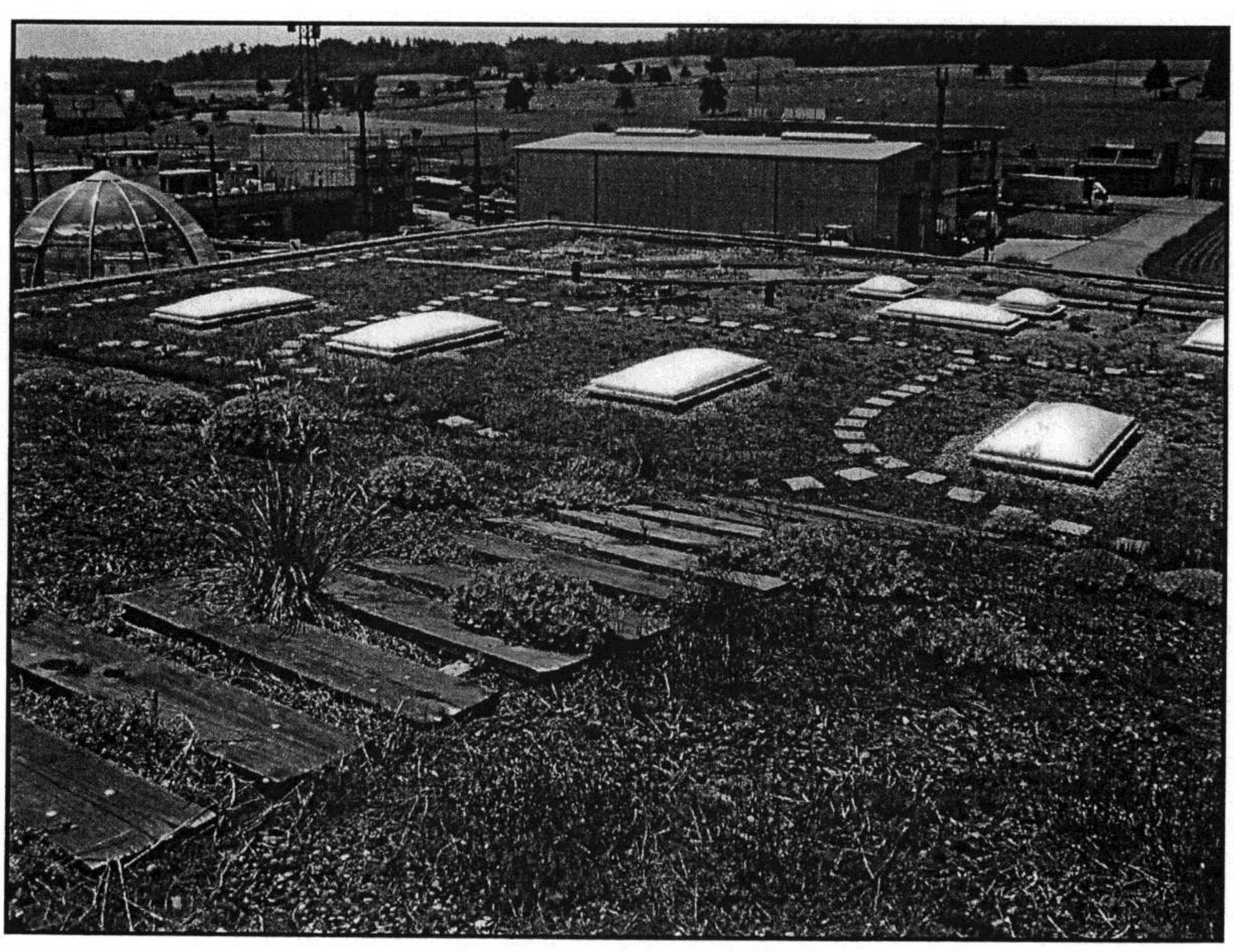
## GROWING MEDIUM

**Bauder Extensive Substrate** is to be installed directly over the **Bauder filter fleece** to a minimum depth of 75 mm and maximum depth of 150mm to create undulating roofscape.
Within the substrate elements of graded shingle should be incorporated. These areas should be designed to provide ridges within the broad design and should vary between 75mm and 150mm. They should constitute at least one fifth of any roof area.
It is recommended that wooden elements, in the form of dry logs 500mm to 1000mm in length and approximately 100mm in width, be placed onto the substrate to provide an important dry wood ecological niche for rare invertebrates. (See attached image)
Allowance should be made for any settlement that may occur.

***Important Note:***

Depending on size and access of the project the 'substrate' can be supplied by various methods i.e. Tipper, Silo lorry (pumping directly onto the roof area), Big bags, or sacks. Prior to costing this element of the installation the 'Approved Contractor' must contact Bauder Ltd so that they may advise on the best solution on any specific contract.



**A Typical Biodiversity Roof Layout**

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**Planting**

Supply and plant sedum plug plants at the rate of 4-5 per square metre and sow a wildflower seeded mix as per supplier's instruction.

**Post installation Maintenance (if applicable)**

The installing contractor should price into the tender, the cost of carrying out post-installation maintenance for a contract period to be agreed with the client's representative. We recommend one full growing season. Following the final maintenance visit and application of slow release fertiliser at the end of the agreed contract period, the responsibility for the ongoing maintenance of the green roof planting becomes the responsibility of the building owner.

**Wind uplift conditions:**

Where the exposure of the roof is such that there is a risk of the substrate being subject to wing erosion, provision must be made to install biodegradable (Jute) erosion net over the installed substrate, to prevent erosion until the plants are established

**Irrigation**

Supplied and installed by others in accordance with the clients specification.

**WORKMANSHIP**

[1] The **Bauder** System can *only* be laid by properly certified operatives, who have been trained by **Bauder Ltd** or approved by **Bauder Ltd** and hold the certificate of approval.

[2] The **Bauder** System must be laid with the use of roll bars, as provided by **Bauder Ltd** or equal and approved.

[3] Workmanship that is incorrect and not to Codes of Practice B.S. 8217:1994, will not be permitted, even if the system is watertight. The client will be told that all such faults must be remedied, before the Guarantee is issued.

[4] Any building work that is the responsibility of the roofing contractor and, has a bearing on the life of the **Bauder Green Roof System** must be carried out by properly trained tradesmen.

[5] Consideration must be given by the contractor at all times to the aesthetic appearance of the roof, i.e. alternate head laps to be in line and no unnecessary short pieces of capping sheet are to be used.

***Important Note***

It is imperative that the contractor conforms to the workmanship criteria as listed above. Any deviation from this will result in the contract being considered unguaranteeable by our insurers.

# SPECIFICATION - "BAUDER GREEN ROOF SYSTEM"

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**SPECIAL NOTE:**

The contractor is to notify the Bauder Area Technical Manager of the time and place of the pre-contract meeting as soon as this is known, in order to give him the opportunity to attend.

**For further information contact Bauder Limited.**

**Head office: T: 01473 257671**
**E: technical@bauder.co.uk**

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