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May 2002



Kalzip® in London's Docklands



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The transformation of the London Docklands has involved the construction of not just offices and prestigious residential apartments but also new schools, community centres, a totally new university campus and, of course, an improved transport infrastructure with the extension to the Jubilee Line and the completion of the Docklands Light Railway.

Kalzip aluminium standing seam has been a popular choice for specifiers across all of these sectors offering

outstanding durability in a harsh environment with high levels of atmospheric pollution and, in some locations, semi-marine conditions.

This guide to Kalzip projects in the Docklands area features just a selection of buildings – some of them have won architectural awards and some are already recognised as famous landmarks of this revitalised area.

The projects have been sequenced firstly from north to south following the line of the DLR from West India Quay to Greenwich. The remainder are sequenced from west to east and many of these are visible from the Docklands Light Railway line running between Shadwell and Beckton.



Project information – quick reference

Project number	Project	Sector	Straight	Curved	Wave form	Tapered	Fall arrest	Colour coated
1	North Greenwich Station							
2	South Quay Station							
3	South Quay Plaza							
4	Arnhem Wharf School							
5	Greenwich Reach							
6	Canada Water Station							
7	Whitechapel Community Sports Centre					Kalzip liner only		Ral 7035
8	Canary Riverside Hotel							Ral 7036
9	Limehouse Basin							Flashings Ral 1023
10	Stephen Hawking SEN School							
11	Limehouse Youth Club							
12	Ashton Street Apartments							
13	Abbey Mills Pumping Station							
14	Stratford Market Depot							
15	Stratford Station							
16	East Ham Leisure Centre							
17	Britannia Village Hall							
18	Royal Victoria Urban Village							
19	Royal Docks Community School							
20	Brampton Manor School							
21	University of East London							
22	Gallions Lock							Flashings Ral 9006
23	Beckton Sludge Generators							
24	Sainsbury's							

Learning Establishment

Public Transport

Government/Local Authority

Commercial

Housing

Utility



All key contact details can be found on page 26



Award winning

1. North Greenwich Transport Interchange

Kalzip systems played a major part in achieving the award-winning construction of the North Greenwich Transport Interchange – built to service the Millennium Dome which is located just a few hundred metres away.

The complex geometry of the huge 160 metre long aerofoil shaped roof was a major consideration of the

architects when they specified Kalzip aluminium standing seam.

The part spherical shape which resembles the wing of a bat, is one kilometre in diameter and demanded a roofing material that could withstand the degrees of ‘bending’ required during installation and at the same time offer the smooth flexibility of shape needed for the curved design.

Because of the lengths of sheets involved, the 6,300 square metres of Kalzip sheets were roll-formed on site. Kalzip structural steel decking forms the roof’s inner surface.

Architect:
Foster & Partners

Approved Teamkal contractor:
WW Roofing & Cladding Ltd



2. South Quay Station



The roof structure here provides cover for the two platforms of the DLR station. Completed in a simple double skin with Kalzip 400 stucco embossed over Kalzip steel liner sheets polyester coated in white.

The station provides an excellent opportunity to see Kalzip at close quarters – an added bonus is that the Kalzip is layed on tubular purlins.

The architect's choice of Kalzip was influenced by the need to create a roof that would be aesthetically pleasing for the surrounding office blocks looking down on to the station.

Architect:
Norman Webber Associates

Approved Teamkal contractor:
Asphaltic Services Ltd

3. South Quay Plaza



Best viewed from the platforms of the adjacent DLR station, this building has a central glass arcade flanked by symmetrical naturally curved Kalzip roofs on either side. From inside the

arcade, the Kalzip steel liner and ridge flashings are clearly visible. Approximately 1000 square metres of Kalzip 305, stucco embossed makes up the twin roofs.

Architect:
Rolfe Judd Architects



4. Arnhem Wharf School

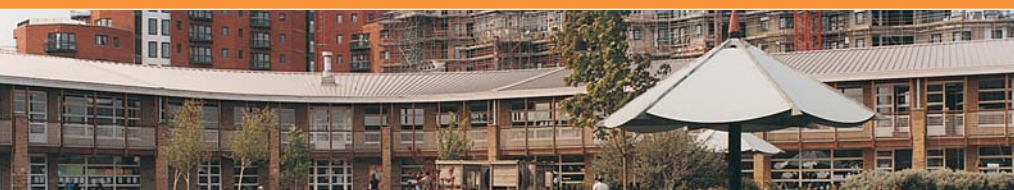
Designed by the Percy Thomas Partnership for Tower Hamlets Council, Arnhem Wharf School combines Kalzip with traditional building materials to create a warm and inviting area to study.

Monopitched roofs in straight and tapered Kalzip 400 stucco embossed form an L-shaped enclosure to the school's pleasantly set out forecourt area. Given the full length of the roof, movement joints were carefully incorporated at intervals and the soakers are integrated neatly into the structure.

Kalzip is used for vertical wall cladding and over entrance ways to form interesting architectural features.

Viewing of the school is very open from the street but please note that permission would be required from the local authority to enter the site.

Architect:
Percy Thomas Partnership





5. Greenwich Reach

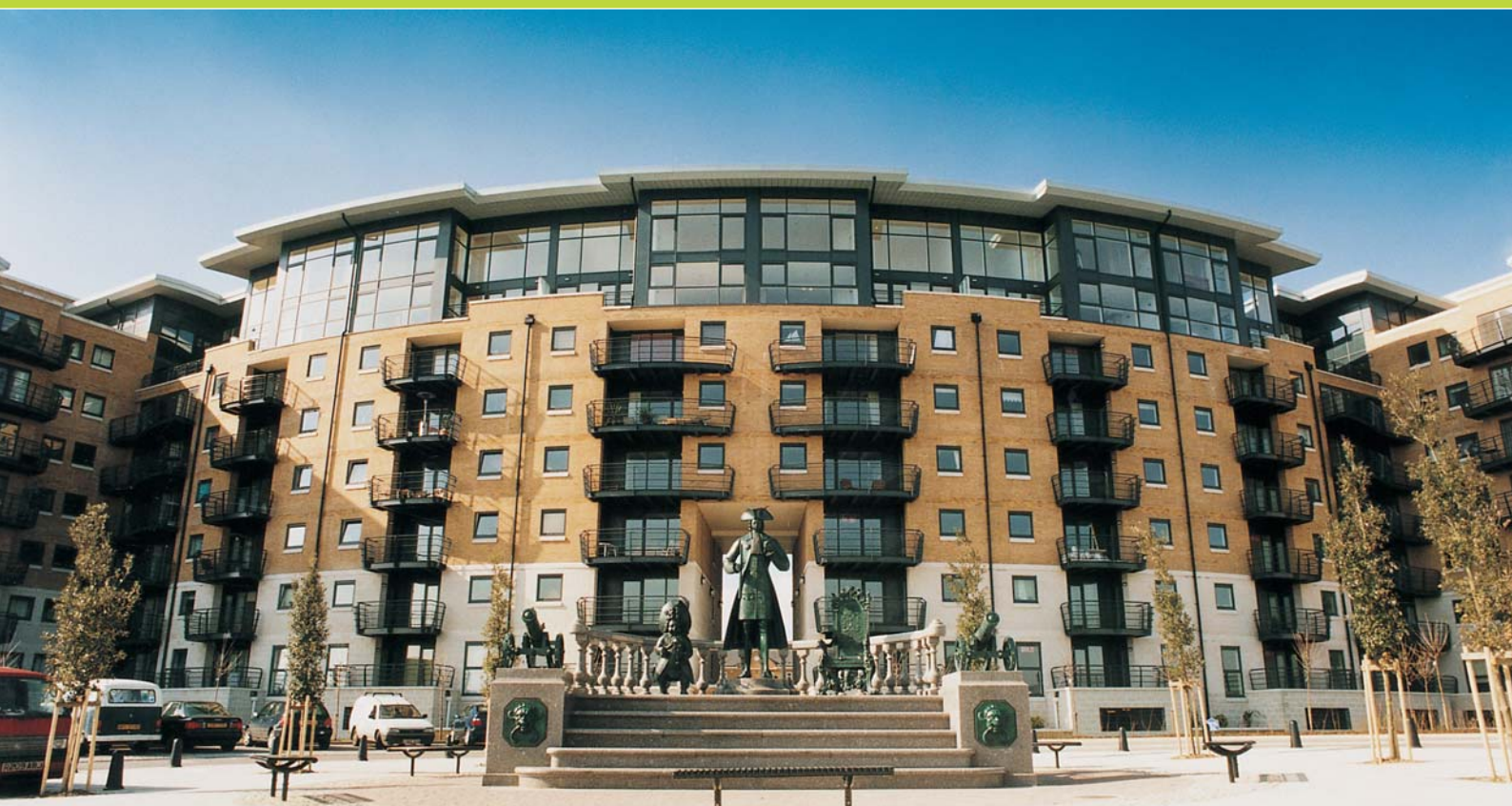
This exclusive residential development by Fairview New Homes has employed the best of building materials and systems throughout. Kalzip was the obvious choice for the roof, with the added benefit of a long low maintenance free life.

Almost 5,500 square metres of Kalzip 400 stucco embossed material, pre-curved to various radii between 14 and 18 metres has been installed together with 950 square metres of tapered and pre-curved sheets.

Quality has been the watchword for this development with a full Kalzip specification comprising outer sheets, Kalzip aluminium liner sheets, insulation and vapour control layer. In addition, a quantity of aluminium liner was supplied for the crimp curved elements and matching Kalzip aluminium fabrications for the finishing details.

Architect (and client):
Fairview New Homes Ltd

Approved Teamkal contractor:
Lakesmere Ltd





6. Canada Water Station

The London Transport Interchange at Canada Water incorporates a tube and bus station. The three distinct architectural areas are – the main station enclosing a bus station and tube exit and then, two smaller tube station exits.

The architects favoured Kalzip as being the most cost effective roofing material due to its proven longevity and low maintenance requirements.

A total of 2720 square metres of Kalzip 305 stucco embossed was

used to create the curving pitched roofs of the station with the Kalzip roof on the fan room being oval on plan with a central gutter and flashings around the perimeter to a total length of 60 metres.

This is an excellent project to see the installation of a Kalzip fall arrest system.

Architect:

Eva Jiricna Architects Ltd

Approved Teamkal contractor:

Lyons Tobin Associates



7. Whitechapel Community Sports Centre



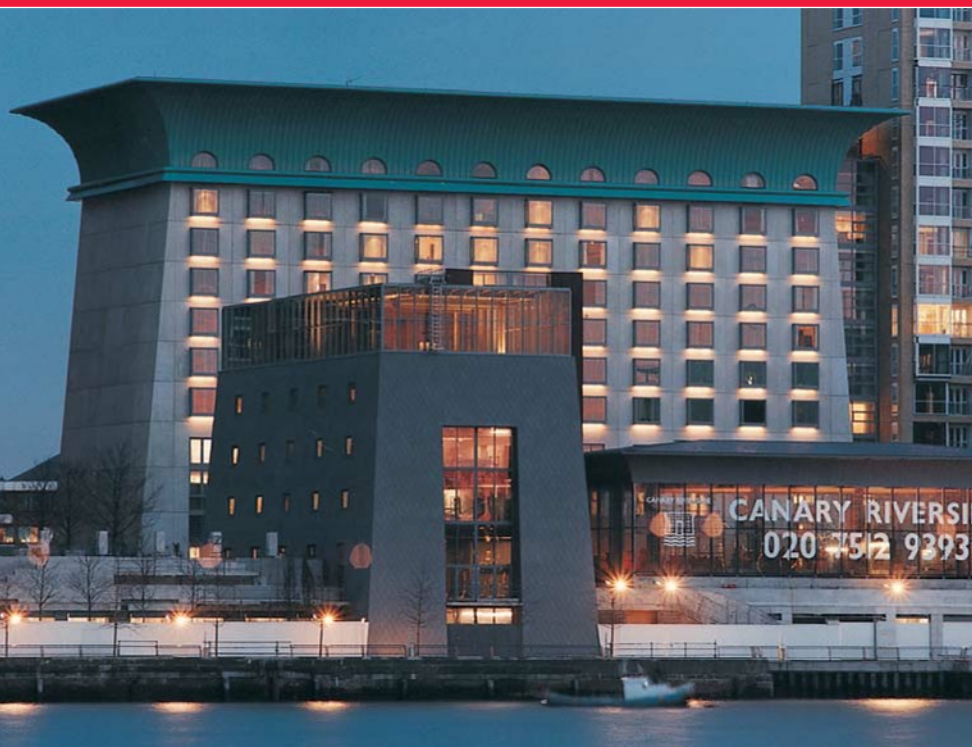
Situated almost directly behind Whitechapel Underground Station, this building provides a range of sporting facilities to the local area. It is funded, chiefly, by the London Borough of Tower Hamlets and Sport England.

The roof comprises a series of monopitch slopes clad in a total of 2,700 square metres of Kalzip aluminium liner sheets colour coated in PVdF RAL 7035. An additional 750 square metres of Kalzip liner was used for the vertical sections.

Architect:
Pollard Thomas & Edwards

Client:
London Borough of Tower Hamlets

8. Canary Riverside Hotel



This Four Seasons Hotel is dramatically situated with stunning views of the River Thames and with the Canary Wharf commercial district as a 'backdrop'. Viewing is excellent from across the river, down the Thames Path and from the elevated walkway just across the road.

The barrel vaulted Kalzip roof - largely concealed from below by the up swept aluminium fascia - is colour coated to match in PVdF RAL 7036, a tough coating that will provide a life to first maintenance of at least 25 years, even in this harsh environment.

Architect:
Renton Howard Wood Levin

Approved Teamkal contractor:
WW Roofing & Cladding Ltd

Distinctive



9. Limehouse Basin

Located at the northern end of the Limehouse Basin dock these four identical residential apartment blocks are crowned with sloping Kalzip roofs that give the development an appropriate nautical appearance.

Each roof is a full system specification with 350 square metres of Kalzip 400, stucco embossed finish, laid above

Kalzip steel liner sheets colour coated polyester white.

The distinctive flashings are fabricated from aluminium and colour coated in RAL 1023.

Architect:
CHBC Architects



10. Stephen Hawking SEN School

Completed in 1996 for the London Borough of Tower Hamlets, this school for children with special needs won The Royal Fine Arts Commission's Building of the Year Award in 1997.

A Kalzip 400 double skin roof was specified by partners John Moore and John Jenkins of Haverstock Associates: "We wanted a whole, reliable, tested package which we were confident would work. We were attracted by Kalzip's single point of responsibility and its reasonable price."

A large double height central space runs the length of the building and is flanked by single storey cross wall wings containing large glazed classrooms. Exposed steel Y-frames and high density glazing illuminate the central area which is put to communal use with a hydrotherapy pool, sensory room, parents room, library and main hall.

The school can be viewed from the east-bound platform at Limehouse DLR and from the train itself, travelling in either direction.

Architect:
Haverstock Associates





11. Limehouse Youth Club



This 'multi-area' roofed building combines both straight and curved Kalzip 305 stucco embossed profiles with a series of 10 small arched sections around the perimeter at first floor level.

A total of 585 square metres of Kalzip create the duo and mono-pitched roofs, with hips, at the higher levels.

An attractive building that is very accessible with good views from both street level and from platforms of Westferry DLR.

Architect:

Squire and Partners

Approved Teamkal contractor:

Prater Specialist Cladding Ltd



12. Ashton Street Apartments



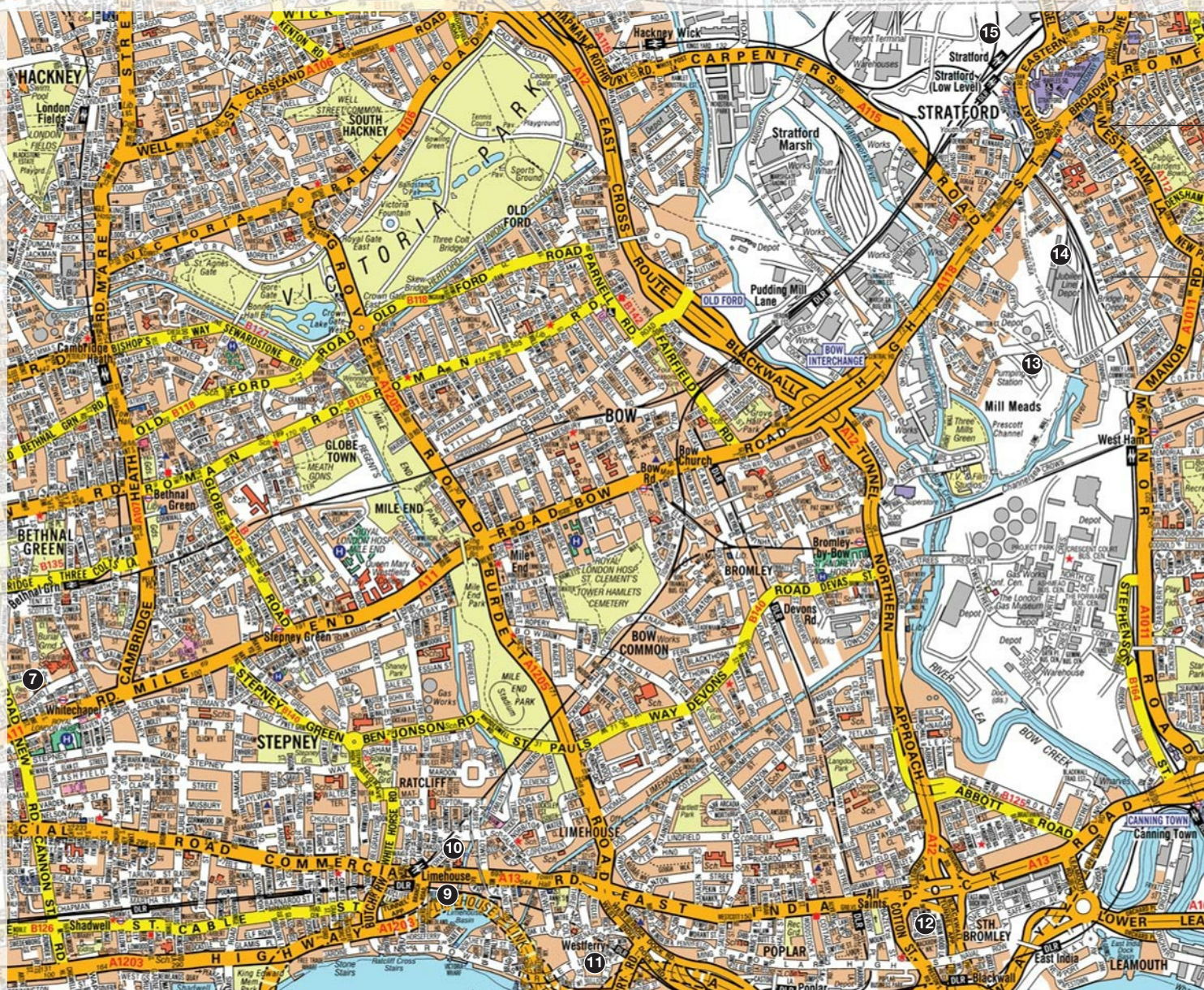
Twenty-first century residential architecture at its best – a combination of traditional and modern – in terms of both materials and design, to provide a complex that is not only pleasing to view but spacious and comfortable to live in.

Ashton Street Apartments are conveniently located just minutes away from All Saints DLR with easy access to the city.

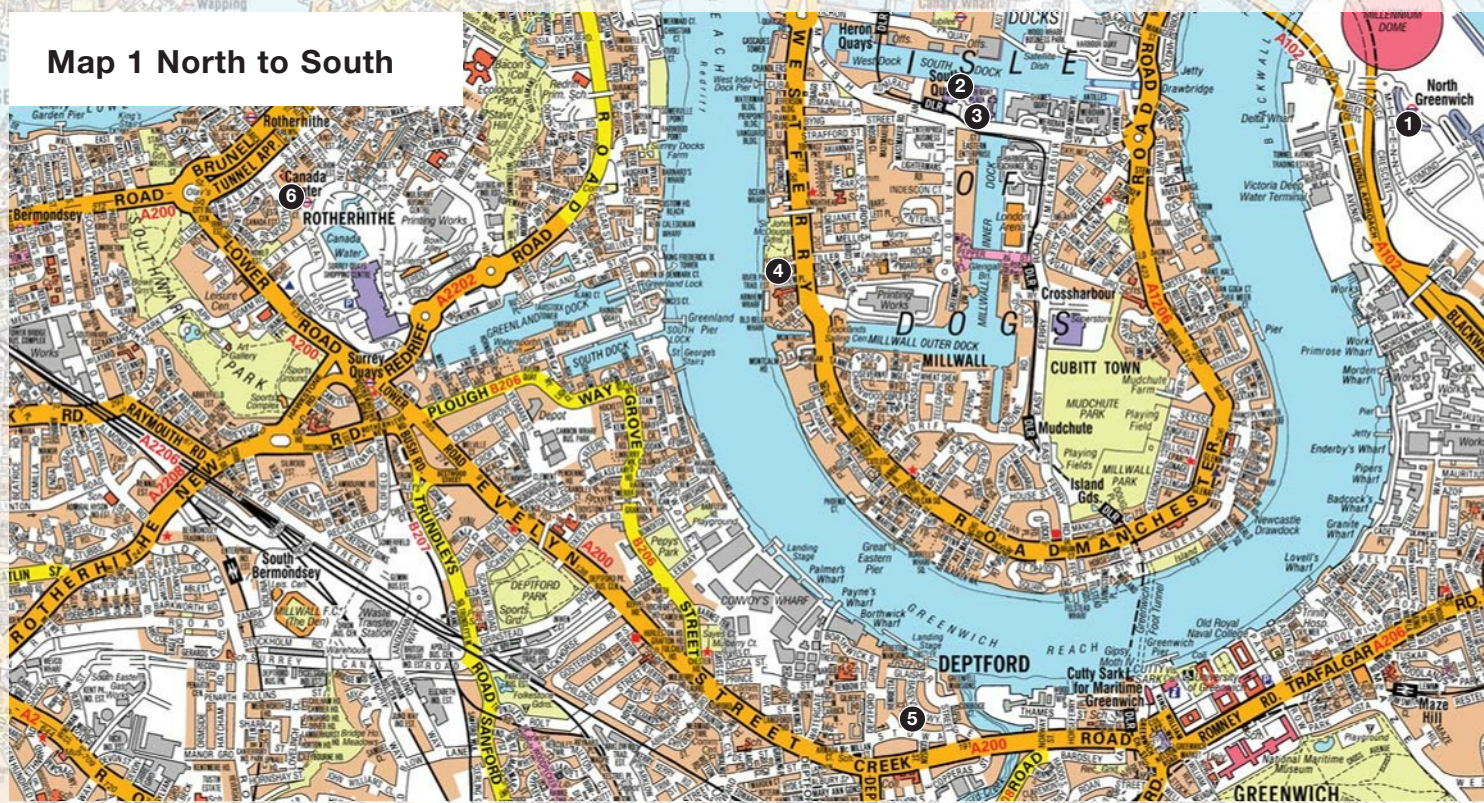
Kalzip 400 stucco embossed is laid over wooden rafters and deck – a specification that is more usually encountered in Europe – with the timber balconies and cladding providing a distinctly continental feel to the entire development.

Architect (& client):
Copthorne Homes

Approved Teamkal contractor:
Lyons Tobin Associates



Map 2 West to East



Map 1 North to South

Geographic location of sites in London's Docklands

Map 3 West to East



Map 1

- 1. North Greenwich
Transport Interchange
- 2. South Quay Station
- 3. South Quay Plaza
- 4. Arnhem Wharf School
- 5. Greenwich Reach
- 6. Canada Water Station

Map 2

- 7. Whitechapel Community
Sports Centre
- 8. Canary Riverside Hotel
- 9. Limehouse Basin
- 10. Stephen Hawking SEN School
- 11. Limehouse Youth Club
- 12. Ashton Street Apartments
- 13. Abbey Mills Pumping Station
- 14. Stratford Market Depot
- 15. Stratford Station

Map 3

- 16. East Ham Baths
- 17. Britannia Villlage Hall
- 18. Royal Victoria Urban Village
- 19. Royal Docks Community School
- 20. Brampton Manor School
- 21. University of East London
- 22. Gallions Lock
- 23. Beckton Sludge Generators
- 24. Sainsbury's

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13. Abbey Mills Pumping Station



Thames Water's Abbey Mills Pumping Station won a RIBA Regional Award and was highly commended in both the Aluminium Imagination Awards and the British Construction Industry Civil Engineering Awards. The building has been covered using straight and smooth curved Kalzip sheets and Kalzip liner sheets – both manufactured from clad alloy – a special clad aluminium alloy that offers outstanding durability.

In total, 2,200 square metres of straight and crimp curved Kalzip liner sheets were installed and 2,350 square metres of Kalzip outer sheets comprising 2.4 metre long 0.9mm gauge smooth curved sheets, 7.67 metre long 0.9mm straight sheets and 11.50 metre long 1.00mm smooth curved sheets.

The 2.4 metre long sheets form the central clerestory roof and the 7.67 metre long straight sheets run from below the clerestory roof to halfway down the 30 degree pitched main roofs where they are site welded to the 11.50 metre sheets which are double smooth curved, firstly to an 18 metre and then to a 6 metre radius.

Architect:

Allies and Morrison Architects

14. Stratford Market Depot



Built on the site of an old fruit and vegetable market, Stratford Market Depot is the largest of its kind in Europe – it provides overnight ‘stabling’ for up to 33 trains as well as servicing and cleaning facilities for tube trains from the Jubilee Line extension.

This impressive structure is covered by 15,250 square metres of 0.9mm gauge Kalzip sheets manufactured from clad alloy – a special aluminium alloy with a stucco embossed finish for outstanding protection and durability. Sheets were supplied in lengths of up to 36 metres with three

in turn being site welded to provide a continuous span of 108 metres.

The curved barrel-vault roof is parallelogram on plan with a radius of 229 metres and being 182 metres long. A succession of 2 metre wide rooflights are incorporated into the roof at 7 metre intervals and running in continuous lengths from 16 to 80 metres.

Architect:

WilkinsonEyre.Architects

Approved Teamkal contractor:

Prater Specialist Cladding Ltd

15. Stratford Station

The three main sections of this award winning station at Stratford are roofed with Kalzip aluminium standing seam.

Firstly, the main concourse. The straight/curved roof is a stunning construction and, with its extensive glazed elevations, is a notable feature looking especially striking when illuminated at night. Kalzip 300 stucco embossed profiles were used and a

Kalzip fall arrest system was installed to allow safe access to the roof.

Secondly, the canopies along the three new Jubilee Line platforms. Approximately 250 square metres of straight Kalzip 300 stucco embossed sheets were laid to form these single canopies with flashings and gutters also fabricated by Kalzip.

Thirdly, the staff offices. This curved Kalzip roof completes the installation towards the rear of the station complex.

Architect:

WilkinsonEyre.Architects

Approved Teamkal contractor:

WW Roofing & Cladding Ltd



Stunning





16. East Ham Leisure Centre

Right in the centre of Newham and directly adjoining the Borough's red brick Victorian town hall, this new leisure centre is an interesting example of old and new architecture combined to striking effect.

The Kalzip double skin roof of more than 1500 square metres was installed with a combination of straight and curved sheets to accommodate the barrel vault sections of the structure. With condensation being an issue in the swimming pool area, an aluminium

Kalzip lining sheet was specified to ensure long-term durability. The specification was also adapted to achieve high levels of acoustic absorption. A Kalzip fall arrest system was installed to provide safe access to the roof and glazed sections.

Architect:

London Borough of Newham

Client:

London Borough of Newham Leisure Services

Approved Teamkal contractor:

Coverite Ltd



17. Britannia Village Hall

The Britannia Village Hall is a popular focal point for this newly re-developed area and incorporates a doctors surgery as well as providing a meeting point for local groups and activities.

Kalzip's renowned capabilities as a system – especially when it comes to curving and tapering, were the chief reasons for the architect's choice, although durability and low maintenance requirements were also important. The project comprises two curved roofs (running in opposite

directions) – one a curve of 11 metres the other of 31 metres and leading into a straight section. Kalzip 400 stucco embossed profile forms the outer surface with Kalzip steel liner sheets as the inner deck. Curved flashings and gutters were also fabricated from matching aluminium by Kalzip Building Systems.

Architect:

Tibbards TM2

Approved Teamkal contractor:

Asphaltic Services Ltd



18. Royal Victoria Urban Village

This prestigious residential development alongside the Royal Victoria Dock is immediately next to the elevated footbridge leading across to the Excel exhibition centre. It is an excellent example of the versatility of Kalzip systems for both roof and wall cladding and working in perfect harmony with a range of other building components.

A single skin Kalzip specification provides two curved canopies towards the front of the building.

A more complex semi-circular roof of the apartments themselves uses 900 square metres of Kalzip 305 tapered sheets with Kalzip aluminium liner

sheets also employed as a vertical wall cladding to the upper floor with windows and soakers inserted as required.

The canopies are easily viewed from close by but for a clear view of the semi-circular roof it is necessary to walk some distance away from the building – the best aspect being from the far side of the Royal Victoria Dock.

Architect:
Tibbards TM2

Approved Teamkal contractor:
WW Roofing & Cladding Ltd





19. Royal Docks Community School

The Royal Docks Community School is the perfect showcase for the versatility of Kalzip aluminium standing seam roofing. The school's multiple roofs include straight, curved, curved and tapered and also naturally curved 'waveform' Kalzip profiles. In addition, the twin skin system is configured to provide high levels of both thermal and acoustic insulation. Perforated Kalzip steel decking sheets are used, in certain sections, to reduce internal noise levels.

The school's 'pinwheel' design, with four wings projecting from a central rotunda, allows for optimum use of the school's facilities by various groups whilst providing a central orientation and meeting point. At design stage, noise surveys of the site identified high ambient noise levels both from traffic on nearby roads and from aircraft using the nearby London City Airport. With concerns that this could pose difficulties particularly for students with hearing impairment, the

need to achieve good acoustic insulation whilst meeting project limits was judged critical and influenced the Kalzip system specification.

Excellent views of the school are obtained from the passenger footbridge at the Prince Regent DLR station.

Architect:

Environment Department
London Borough of Newham

Approved Teamkal contractor:

Kelsey Roofing Industries Ltd



20. Brampton Manor School



The renovation of Brampton Manor School has been completed in successive phases since work began in 1997. Two Kalzip approved contractors have been employed during the period and each have won praise from the architect for the high quality of both their installation work and welding across some 'tortuous' sections of roof. They had to work to some very awkward junctions and interfaces with the existing building structure.

A Kalzip 400 stucco embossed was specified as a durable system with low ongoing maintenance requirements for the school. Many of the sheets were pre-curved to meet varying radii and Kalzip liner sheets, insulation and vapour control

layers were also part of this full system specification.

Straight Kalzip sheets were also used as vertical wall cladding on the upper parts of some elevations with circular aluminium louvres integrated into the cladding.

The whole roof structure is completed over circular purlins and finished with flashings and gutters fabricated in aluminium by Kalzip.

Architect:
IID Architects

Approved Teamkal contractors:
WW Roofing & Cladding Ltd and
TR Freeman Ltd



21. University of East London



Faced with an exposed and windswept location alongside the 2 kilometres long Royal Albert Dock, Edward Cullinan Architects had to design a strong, protective and hospitable environment for students of this new university.

Five pairs of cylindrical accommodation blocks are designed to optimise living space by avoiding the need for wasteful and 'institutionalised' corridors, and they are made even more lively and

friendly by the range of vibrant Mediterranean colours applied to the plain rendered walls.

The need for durability and innate resistance to corrosion made aluminium the obvious choice as a roofing material in this semi-marine environment and, when it came to the challenging geometries of the butterfly wing, circular roofs, Kalzip's design flexibility clinched the specification.

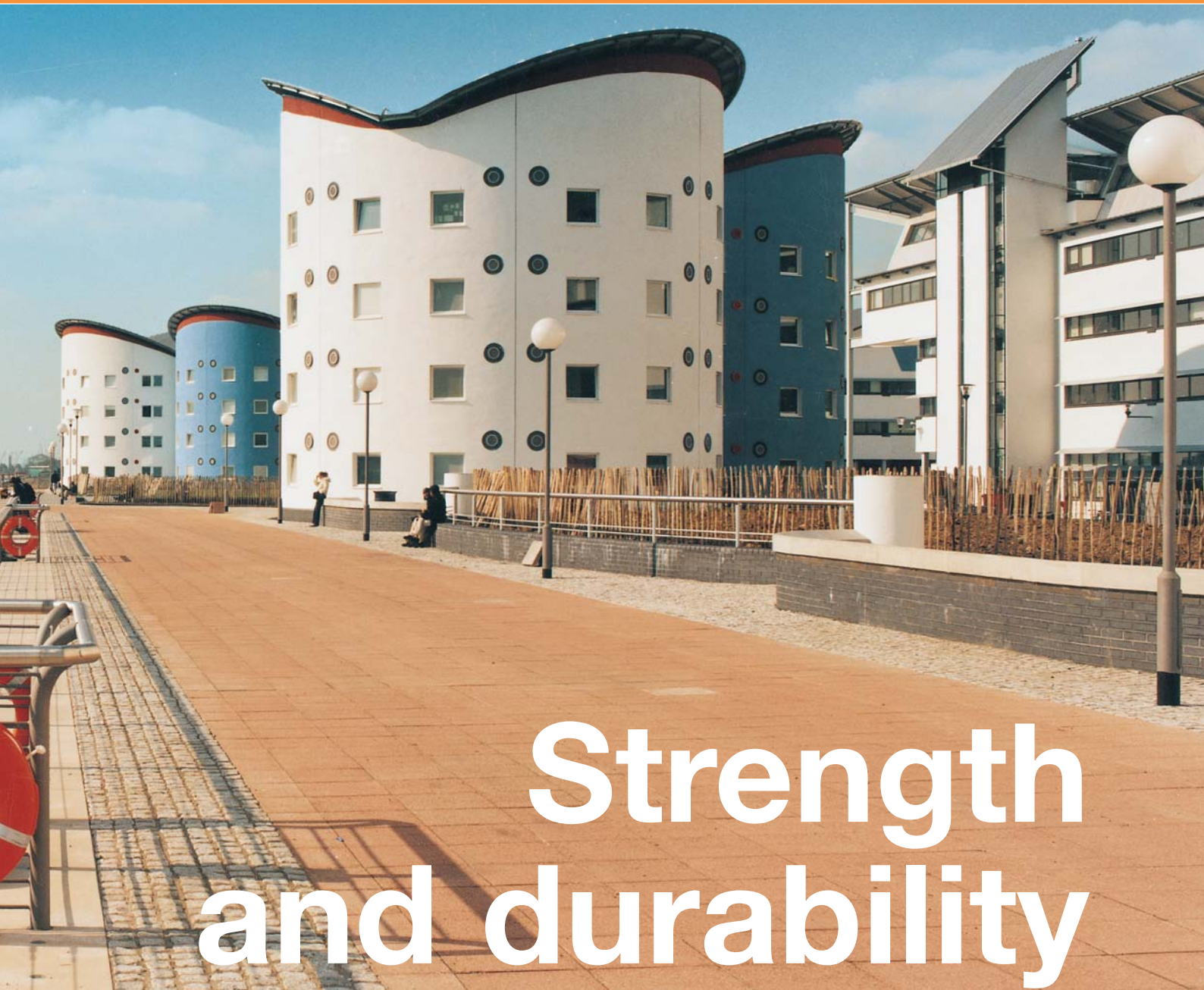
Kalzip was also installed on the 19,000 square metre teaching blocks which have a series of sweeping roofs extending to sharply pointed corners that cantilever over the main piazza.

Architect:

Edward Cullinan Architects

Approved Teamkal contractor:

Lakesmere Ltd



Strength and durability

22. Gallions Lock

A modern residential scheme being erected in multiple phases in a spectacular location at Gallions Point with views over the Royal Albert Dock to the University of East London, along the Dock and the adjacent London City Airport and into the city and then, on the eastern side down to the widening estuary of the Thames.

Spectacular but very exposed, the architects specified Kalzip with durability very much in mind – it was

also very suitable for the widely varying design requirements of this development for Fairview Homes.

In the first phases, almost 7000 square metres of Kalzip 400 stucco embossed has been installed including 630 square metres of curved sheets. Bullnose flashings and trim, colour coated in RAL 9006 have also been fabricated and supplied by Kalzip.

Architect:

Shepherd Epstein Hunter

Approved Teamkal contractors:

Prater Specialist Cladding Ltd





23. Beckton Sludge Generators



There is no design reason why a building as functional as one housing a generator should not be as aesthetically appealing as those with more esoteric roles.

Proof of this is the Beckton renewable energy sludge powered generators on the banks of the River Thames. Kalzip was specified as the most appropriate system to achieve the very individual and complex design while providing the longevity and ease of maintenance essential to plants which are operational on a round-the-clock, round-the-year basis.

Officially opened by the Duke of Edinburgh to serve 2.5 million Thames Water customers in south London, this environmentally friendly generator provides enough 'green electricity' to power a small town.

A total of 10,960 square metres of Kalzip 400 stucco embossed was installed along with the equivalent quantity of white polyester coated steel Kalzip liner sheets.

Architect:

Amec Design & Management

Approved Teamkal contractor:

WW Roofing & Cladding Ltd



24. Sainsbury's

One of the very first Sainsbury's 'Savacentre' stores, this building has a 13,500 square metre barrel-vault roof. Kalzip 400 stucco embossed sheets were installed by Teamkal approved contractor, Hathaway Roofing.

Naturally convex curved, the roof is an impressive site – viewing is best from some distance away allowing you to appreciate the full curvature and extent of the structure.

Architect:

Aukett Europe

Approved Teamkal contractor:

Hathaway Roofing Ltd



Key contact details

Architects:

Allies and Morrison Architects

62 Newman Street, London W1T 3EE.
Tel: 020 7612 7100.

Amec Design & Management

Timothy's Bridge Road, Stratford-upon-Avon,
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Aukett Europe

2 Great Eastern Wharf, Parkgate Road,
London SW11 4TT. Tel: 020 7924 4949.
www.aukett.com

CHBC Architects

32 High Street, Ingastone, Essex CM4 9EE.
Tel: 01277 355007.

Copthorne Homes

Countryside Developments, The Drive,
Brentwood CM13 3AT. Tel: 01277 260000.

Edward Cullinan Architects

The Wharf, 1 Baldwin Terrace, London N1 7RU.
Tel: 020 7704 1975.

Eva Jiricna Architects Ltd

3rd Floor, 38 Warren Street, London W1T 6AE.
Tel: 020 7554 2400.

Fairview New Homes Ltd

50 Lancaster Road, Enfield, Middlesex
EN2 0BY. Tel: 020 8691 4979.

Foster & Partners

Riverside Three, 22 Hester Road, London
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Haverstock Associates

10 Cliff Road Studios, Cliff Road, London
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IID Architects

421 Richmond Road, Twickenham, Surrey
TW1 2EF. Tel: 020 8892 6601.

London Borough of Newham

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Property & Design Consultancy
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Pollard Thomas & Edwards

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Tel: 020 7379 7900.

Shepherd Epstein Hunter

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Squire and Partners

77 Wicklow Street, London WC1X 9JY.
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WilkinsonEyre.Architects

Transword House, 100 City Road,
London EC1Y 2BP. Tel: 020 7608 7900.

Approved Teamkal contractors:

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Cambridge PE27 3WR. Tel: 01480 466444.

Coverite Ltd

Palace Gates, Bridge Road, Wood Green,
London N22 7SP. Tel: 020 8888 7821.

Hathaway Roofing Ltd

Shildon Road, Tindale Crescent, Bishop
Auckland, Durham DL14 9SX.
Tel: 01388 605636.

Kelsey Roofing Industries Ltd

Kelsey House, Papermill Drive, Church Hill,
South Redditch, Worcestershire B98 8QJ.
Tel: 01527 594400.

Lakesmere Ltd

The Ring Tower Centre, Moorside Road,
Winnall, Winchester SO23 7RZ.
Tel: 01962 826500.

Lyons Tobin Associates

10 Leaden Close, Leaden Roding, Essex
CM6 1SD. Tel: 01279 876555.

Prater Specialist Cladding Ltd

Ormside Way, Holmethorpe Industrial Estate,
Redhill, Surrey RH21 2LT. Tel: 01737 772331.

TR Freeman Ltd

Beadle Trading Estate, Ditton Walk,
Cambridge CB5 8PD. Tel: 01223 410600.

WW Roofing and Cladding Ltd

The Nest, Century House, Westcott Venture
Park, Westcott, Aylesbury, Bucks HP18 0KB.
Tel: 01296 651741.

We would like to thank the architects, clients, main contractors and approved Teamkal contractors who have, without exception, given us tremendous assistance in the preparation of this brochure.



Kalzip around town

Whilst this brochure has focused on the Docklands area to provide a 'compact' cross section of projects, there are many outstanding Kalzip installations throughout the city – along the riverside to Hammersmith and beyond; in to the city itself and its surrounding suburbs.

Kalzip. Where to find us.

For further information about Kalzip, please contact us (full address details are shown on the back cover) or visit our web site:

www.kalzip.com

Technical literature

A range of in-depth technical documents covering every aspect of our products and systems is available.



www.kalzip.com

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