

TEN CASE STUDIES

February 2008

ATALANTA, Bevendean

DIGGERS, Hollingdean

DOWNS JUNIOR SCHOOL, Rugby Road

DOWNS VIEW LINK COLLEGE, Surrenden Road

HEDGEHOG, Bevendean

KING ALFRED, Hove

REGENCY SQUARE, Seafront

ROUNABOUT CHILDREN'S CENTRE, Whitehawk

THE SMART HOUSE

WESTERGATE BUSINESS CENTRE, Moulsecoomb



PROJECT NAME	ATALANTA, Bevendean
CLIENT	Downland Housing Association
ARCHITECT	Conran & Partners
COMPLETION DATE	2006
ROOFING CONTRACTOR	Integra
TYPE OF DEVELOPMENT	Social Housing
FUNCTION OF GREEN ROOF	Attractive appearance when viewed from surrounding hills and client wanted to demonstrate commitment to environmentally responsible development.
TYPE OF GREEN ROOF	Extensive: Sedum
AREA OF GREEN ROOF	500 sq m approx
BUILD-UP OF GREEN ROOF	Not known
GREEN ROOF SUPPLIER	Erisco Bauder
COMMENTS	Has worked very successfully



PROJECT NAME	DIGGERS SELF BUILD, Hollingdean
CLIENT	South London Family Association
ARCHITECT	Robin Hillier, Archibel
COMPLETION DATE	1994
ROOFING CONTRACTOR	Butyl (?)
TYPE OF DEVELOPMENT	Nine homes self-build for rent
FUNCTION OF GREEN ROOF	Insulation and views from above (to overcome planners' concern about density)
TYPE OF GREEN ROOF	Extensive: Turf roofs sown with wild flowers
AREA OF GREEN ROOF	900 sq m approx
BUILD-UP OF GREEN ROOF	5 cm top soil
GREEN ROOF SUPPLIER	DIY
COMMENTS	Green roofs well established 1997 Housing Design Award



PROJECT NAME	DOWNES JUNIOR SCHOOL, Rugby Road
CLIENT	Brighton & Hove City Council
ARCHITECT	Nigel McCutcheon, B&H City Council Architects
COMPLETION DATE	2007
ROOFING CONTRACTOR	Southern Industrial Roofing
TYPE OF DEVELOPMENT	School
FUNCTION OF GREEN ROOF	Visual improvement; cooler building; reduced rain water runoff.
TYPE OF GREEN ROOF	Extensive: Sedum
AREA OF GREEN ROOF	400 sq m
BUILD-UP OF GREEN ROOF	Single ply membrane + rolled out sedum mats
GREEN ROOF SUPPLIER	Southern Industrial Roofing
COMMENTS	Roll-up mats present fewer maintenance problems



PROJECT NAME	DOWNS VIEW LINK COLLEGE, Surrenden Road
CLIENT	Brighton & Hove City Council
ARCHITECT	Nigel McCutcheon, B&H City Council Architects
COMPLETION DATE	2006
ROOFING CONTRACTOR	?
TYPE OF DEVELOPMENT	College
FUNCTION OF GREEN ROOF	Visual improvement; cooler building; reduced rain water runoff.
TYPE OF GREEN ROOF	Extensive: Sedum
AREA OF GREEN ROOF	700 sq m
BUILD-UP OF GREEN ROOF	Loose pumice plug planted with sedum
GREEN ROOF SUPPLIER	Soprema
COMMENTS	Problem with pumice blowing away before established; had to be redone; now well established.



PROJECT NAME	HEDGEHOG SELF BUILD, Bevendean
CLIENT	South London Family Association
ARCHITECT	Robin Hillier, Archibel
COMPLETION DATE	2000
ROOFING CONTRACTOR	Butyl
TYPE OF DEVELOPMENT	Ten houses self-build for rent
FUNCTION OF GREEN ROOF	To minimise the impact when viewed from across the valley; self-insulating and beautiful
TYPE OF GREEN ROOF	Extensive: Turf roofs, with a variety of sedum plants added
AREA OF GREEN ROOF	1500 sq m approx
BUILD-UP OF GREEN ROOF	One layer of roofing felt + turf mat + sedum by hand
GREEN ROOF SUPPLIER	DIY
COMMENTS	Turf mat dried at first; sedum added later by hand; now well established; weeded twice a year.



PROJECT NAME	KING ALFRED Underground Car Park (February 2008)
TYPE OF GREEN ROOF	Intensive: left to grow wild
HISTORY	<p>The Art Deco leisure centre was completed in 1939 as part of Hove Marina but immediately requisitioned by the Admiralty and converted into a naval training centre. The underground car park that was built to take 480 cars was converted into different parts of a war ship and an officers' mess. The sports centre was reopened after WWII.</p> <p>It is soon to be demolished to be replaced with a controversial Frank Gehry development.</p>



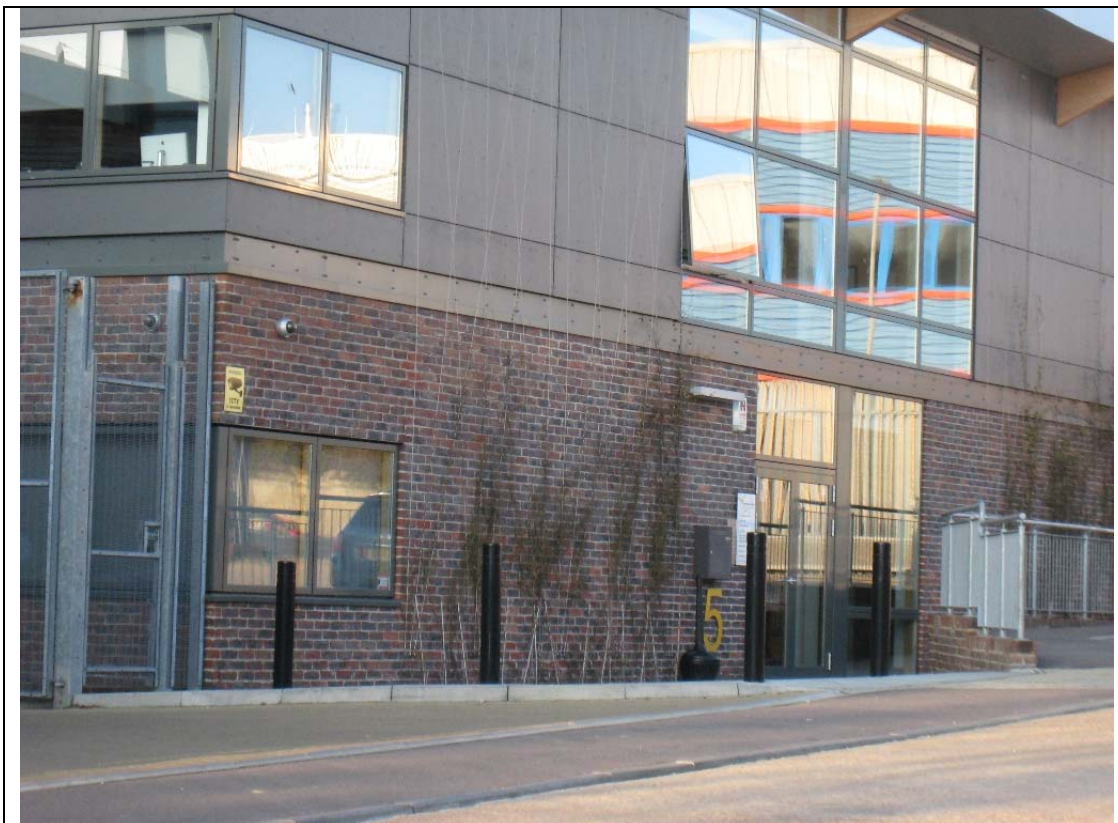
PROJECT NAME	REGENCY SQUARE, Underground car park
TYPE OF GREEN ROOF	Intensive: lawn, shrubs and paved walkways



PROJECT NAME	ROUNABOUT CHILDREN'S CENTRE, Whitehawk
CLIENT	Brighton & Hove City Council
ARCHITECT	Nigel McCutcheon, B&H City Council Architects
COMPLETION DATE	2006
ROOFING CONTRACTOR	Southern Industrial Roofing
TYPE OF DEVELOPMENT	Children's Centre
FUNCTION OF GREEN ROOF	Visual improvement; cooler building; reduced rain water runoff.
TYPE OF GREEN ROOF	Extensive: Sedum
AREA OF GREEN ROOF	400 sq m
BUILD-UP OF GREEN ROOF	Single ply membrane + rolled out sedum mats
GREEN ROOF SUPPLIER	Southern Industrial Roofing
COMMENTS	Roll-up mats present fewer maintenance problems; well established



PROJECT NAME	THE SMART HOUSE
CLIENT	Colin Brace
ARCHITECT	Alan Phillips Architects
COMPLETION DATE	June 2003
ROOFING CONTRACTOR	?
TYPE OF DEVELOPMENT	Private dwelling
FUNCTION OF GREEN ROOF	To increase biodiversity and replace visual amenity
TYPE OF GREEN ROOF	Extensive: Sedum
AREA OF GREEN ROOF	60 sq m
BUILD-UP OF GREEN ROOF	Not known
GREEN ROOF SUPPLIER	Soprema
COMMENTS	The smart house is a single storey, single frontage dwelling that is embedded into the ground. Facing due south and with a sedum roof the smart house uses passive environmental systems to provide a comfortable internal environment all year round. It also uses the latest environmental technology to generate energy and hot water.



PROJECT NAME	WESTERGATE BUSINESS CENTRE, Moulsecoomb
CLIENT	East Brighton Trust
ARCHITECT	Hazel McCormack Young
COMPLETION DATE	December 2005
TYPE OF DEVELOPMENT	Commercial (offices and workshops for local businesses)
FUNCTION OF GREEN WALL	To provide a habitat for wildlife, with swift nesting boxes
COMMENTS	The project incorporates a 6kW wind turbine, solar water heating and used recycled demolition material in its construction. It received BREEAM 'excellent' rating and became the pilot project for SEEDA's 'Sustainability Checklist'.