

Operations & Maintenance Manual

Project address 6252 The Material Store

Customer Adrian Culling of Blackdown Green Roofs

Date 04/04/2017

Product brand Harmer Roof Drainage

Product description Modulock Raised Deck Supports



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2 NBS Specification



H41 REINFORCED BITUMEN MEMBRANE ROOF COVERINGS

GENERAL

110 Reinforced Bitumen Membrane roof coverings Alumasc Waterproofing

Membrane Systems.

SYSTEM PERFORMANCE

210 GENERAL

• Secure, free draining and watertight

PRODUCTS

467 SUPPORT SYSTEMS FOR PRECAST CONCRETE PAVING SLABS

Manufacturer: AWMS

Station Road Burton Latimer Kettering

Northamptonshire

NN15 5JP

Tel: 01536 383810

Email: <u>info@alumasc-exteriors.co.uk</u>

Type: Adjustable deck supports

Size: MB1: 32-50mm high/MB2: 50-75mm high/MB3:70-120mm high/

MB4: 120-170mm high/MB5: 170-215mm high

Product Code: MB1-MB5

Reference: Harmer Deck Modulock

Accessories: Adjustable key







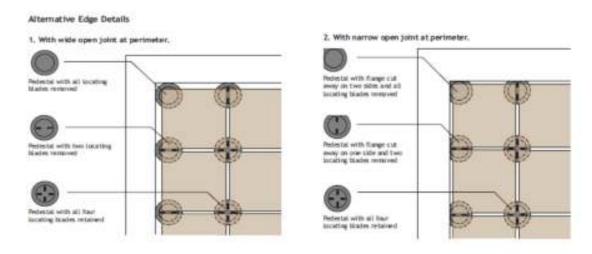




3 Installation & Maintenance

Sequence:

- 1. Check condition of sub-base, waterproofing and drainage points. Rectify any defects and clear drainage outlets as a preliminary measure.
- 2. Set out pattern of pedestal supports, selected to suit new deck height and paving modules.
- 3. Use supporting heads with linear blade configurations at edges of deck and at any intermediate surface interruptions.
- 4. Adjust pedestal screwjacks to the approximate height required, checking for level and alignment.
- 5. Finalize the layout of the pedestals. For convenience, use a lightweight template for checking positions and to avoid undue lifting of heavy slabs.
- 6. Proceed to lay the paving slabs, ensuring each slab corner is firmly seated on the pedestal had and butted up to the locating blades.
- 7. Final adjustment to level can be made by using the adjustment key.



Routine Care and Maintenance:

Installer and/or Architect has a duty to instruct the deck owner about performing routine maintenance. Check for rocking pavers and adjust or shim immediately. Substances can settle and pedestals may have to be readjusted. Failure to do so can cause tripping hazard. Periodically check spacer tabs and immediately replace broken tabs to limit deck movement. Make sure the edge restraint stays intact and structurally sound.

The simplicity of the design allows for easy removal of slabs for cleaning maintenance of the roof covering membrane. Please refer to the roof covering membrane manufacturer for their routine cleaning maintenance details.











4 ISO 9001



Certificate of Registration

Alumasc Exterior Building Products Ltd.

Burnbrae Drive, Linwood Industrial Estate, Linwood, Renfrewshire, PA3 3BW White House Works Bold Road Sutton St Helens, Merseyside WA9 4JG Station Road, Burton Latimer, Kettering, Northamptonshire NN15 5JP

BS EN ISO 9001:2008

Centre for Assessment has assessed Alumasc Exterior Building Products Ltd and confirms that the requirements for registration have been met in the following scope:

Design of roofing systems; Manufacture and Supply of exterior rending and paint; Manufacture and supply of rain water and drainage systems

Organisation:

Alumasc Exterior Building Products Ltd

Certificate:

02/1832

Signed:

(on behalf of Centre for Assessment Ltd)

Initial Registration Date:

30th April 2003

Issue Date:

14th April 2015

Expiry Date:

30th April 2018



Centre for Assessment Ltd, 35 Warren Bruce Court, Warren Bruce Road, Trafford Park, Manchester, M17 1LB











5 Technical Data Sheet

Typical example:













CHARACTERISTICS	UNIT	VALUE	TOLERANCE
BASE DIAMETER	mm	195	+/- mm 1,0
BASE THICKNESS	mm	3	+/- mm 0,2
HEAD DIAMETER	mm	110	+/- mm 0,8
LAYING SURFACE OF THE BASE	cmq	298	+/- cmq 5
MINIMUM HEIGHNESS	mm	70	+/- mm 1,0
MAXIMUM HEIGHNESS	mm	120	+/- mm 1,5
TABS THICKNESS	mm	4	+/- mm 0,2
TABS HIGHNESS	mm	12	+/- mm 0,2
WEIGHT	kg	0,250	+/- 5 %
TECHNICAL PROPERTIES		UNIT	VALUE
CENTRAL COMPRESSION LOADING LIMIT RESISTANCE* (collubrated of medium fightess), between minimum and recolorum extension)		KN	19,21
ECCENTRIC COMPRESSION LOADING LIMIT RESISTANCE* (padadred of medium highress, between minimum and maximum entension)		KN	11,38
SLOPE CORRECTION		%	0-5
SHORE		Shore d	70 (+/- 3)
ests made by Civil and Environmental Department of University of P PHYSICAL PROPERTIES	adova, 1 KN = 98,6 Kg METHOD	UNIT	VALUE
FIRE REACTION*	UNI EN 13501-1:2009	class	E
LOW TEMPERATURES REACTION			-40°
ests made by Giordano S.p.A. Institute of Bellaria-Igea Marina (RN)-	italy		
PACKAGING AND STORAGE			
PIECES PER BOX		25	
PIECES PER PALLET	30		
BOX DIMENSION	cm 40x40x42		
BOX WEIGHT	kg 7		
PALLET DIMENSION	cm 80 x 120		
ne packing of the supports is made of boxes. The final palets are wr	apped with a polyethylene film. We recomm	end to store indoor, pallets to be	e protected
LAYING OF THE PRODUCT			
			rea, with no need of any











6 Sustainability

In addition to complying with environmental legislation, Alumasc is committed to developing its own measures to limit the adverse effects of its activities on the environment. To this end, Alumasc operates an environmental policy that fully integrates all aspects of company activities.



Quality

ISO 9001: 2008

Alumasc operates a quality management system which is independently audited to ISO 9001: 2008. The ISO 9001 framework governs the management of many aspects of Alumasc support services, manufacturing and transport operations. Alumasc extends quality management to its network of approved installers for single source accountability and peace of mind.



Sustainability

Alumasc actively pursues sustainability in the full range of products it offers and, with its partners and its suppliers, is committed to putting consideration for the built and wider environment at the core of all aspects of current business and future development.

ISO 14001: 2004

Alumasc's manufacturing sites at St Helens, Merseyside and at Burton Latimer, Northamptonshire are audited to the ISO 14001:2004 Environmental Management Standard. Alumasc is committed to achieving improvements across all of its operating sites, not only as a good neighbour to the surroundings of manufacturing plants, but in the responsible sourcing of raw materials and monitoring of the impact on the environment as a whole.



BREEAM Standards

BREEAM points, as a framework for analysis and scoring, allow easy comparison of the relative merits of different construction types and also comparisons between different construction product groups. The BREEAM points system promotes the use of materials with a proven sustainable message and allows designers to differentiate between products with true ecological credentials and those not achieving the benchmark.

Indicative ratings for building materials given in the BRE Green Guide to Specification also allows designers to choose those products or construction methods that will be most beneficial in contributing to a high BREEAM points score.

Aluminium rainwater goods and fascia soffit systems are part of the range of high scoring Alumasc solutions. Promotion of these responsibly sourced materials brings clarity to the specification process thus achieving the desired effect of minimising the environmental impact of the construction process.

Testing and Certification

Applicable Standards

BS EN 12056-3

Gravity drainage systems inside buildings, Part 3 Roof drainage layout and calculation.

BS EN 8530 (Formerly BS 2997) Specification for traditional-style half round, beaded half round, victorian ogee and moulded aluminium rainwater systems.

BS EN 755

Aluminium and aluminium alloys -Extruded rod/bar, tube and profiles.

BS EN 1706:2010

Aluminium and aluminium alloys -Castings - Chemical composition and mechanical properties.

BS EN 1559

Founding - Technical conditions of delivery.

BS EN 1462:2004

Brackets for eaves gutters - Requirements and testing.

BS EN 12206-1:2004 Paints and varnishes - Coating of

Paints and varnishes - Coating of aluminium and aluminium alloys for architectural purposes.

BS 460: 2002

Cast iron rainwater goods. Specification.

BS 437: 2008

Specification for cast iron drain pipes, fittings and their joints for socketed and socketless systems.

British Board of Agrément Certificate No. 86/1671 Alumasc Rainwater Systems.

RIBA Assessed CPD Seminar Rainwater Disposal from Pitched Roofs.















7 Product Details

The Modulock Pedestal and Modulock Uni-Ring/Uni-Plus raised deck supports are designed for use in terraces, walkways, balconies and ballasted flat roof constructions. They provide unique solutions for drainage and accessibility issues.

Modulock Pedestal

- Wide range of height adjustment from 28mm - 550mm
- Fine adjustment for both height and level are possible
- There are 2 different types of head

Modulock Pedestal Self-Levelling Head

- The Modulock Pedestal Self-Levelling
 Head compensates for gradients up to 5°
- Made of polypropylene and rubber to provide an anti-noise and anti-slip bedding surface

Modulock Pedestal Timber Deck Head

 This head is specifically designed for use with timber decking construction and is also self-levelling

Modulock Uni-Ring & Uni-Plus

- Uni-Ring gives a fixed height of 16mm.
- 5hims offer fine adjustment in increments of 3mm
- Uni-Plus provides adjustment of 25-40mm
- Both are economical paving supports, used where self-levelling adjustment is not required

Self-Locating

- Locating blades on Modulock Pedestal Self-Levelling Head assist positioning of slabs and maintaining open joints when required
- Locating blades can be removed

Compatibility

 Harmer Modulock Pedestal and Uni-Ring product ranges are fully compatible with the Modulock Channel Drain ranges

Robust Construction

- Resists temperatures from -40° to +120°C
- UV stable and resistant to acids
- 20-year life expectancy





Versatile Installation

- Modulock Pedestal and Modulock
 Uni-Ring are quick and easy to install, and provide fast, efficient drainage through the open joints of the slabs to the concealed drainage way below
- A stable sub-base and an adequate means of surface water drainage are virtually the only prerequisites for the use of the Modulock Pedestal system.
- Irregular, stepped, uneven or sloping sub-bases can usually be easily surmounted by the system resulting in a new level raised floor

















