

HOMEGARD PITCH POLYMER DPC SYSTEM BY MARLEY WATERPROOFING

INTRODUCTION

Homegard is a complete DPC package designed to meet modern housing construction standards, including BS 8215: 1991 and the NHBC standards 1992. It consists of a unique housing grade pitch polymer DPC, standard pre-formed pitch polymer stop-end cloaks and a solvent weld adhesive.

Homegard has been specifically designed to offer the housing specifier and builder a cost efficient, high performance pitch polymer DPC.

INDEPENDENT APPROVAL

Homegard Pitch Polymer DPC has been independently approved by the British Board of Agrément, a copy of the relevant certificate, number 00/3704 is available on request.

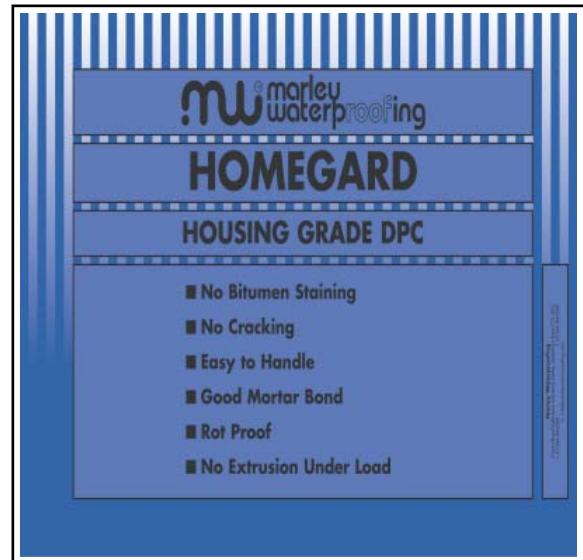
DESCRIPTION

Homegard DPC is a water and water vapour resistant, pitch polymer DPC, which has been specifically formulated to be used only in housing construction.

Homegard is a pitch polymer DPC, and as detailed in BS 8215:1991 it will exhibit the high performance characteristics intrinsic to this type of material.

PERFORMANCE BENEFITS

- **No bitumen staining** - Homegard DPC remains stable at high temperatures. It will not become tacky, even under extreme climatic conditions and therefore, unlike bitumen DPC's Homegard will not ooze out and mark walls.
- **No cracking** - Homegard DPC remains handleable and flexible at low temperatures and therefore, unlike bitumen DPC's, Homegard will not crack in cold weather.
- **Easy to handle** - The clean, sand free surface of Homegard DPC makes it easy and comfortable to handle on site.
- **Good mortar bond** - Homegard DPC, as part of the production process, undergoes a unique surface heat treatment to promote better mortar adhesion.
- **Rot proof** - Homegard DPC is totally rot resistant. When used in an orthodox manner, as a water barrier in wall structures, it will remain effective during the lifetime of the building.
- **No extrusion** - Even under heavy compressive loads, Homegard will not extrude.



MANUFACTURE

Homegard is manufactured, under a quality system which satisfies the needs of ISO 9001. The product wrapper indicates the product name, the Agrément Certificate number, batch code and product code.

USES

As a DPC in all housing situations, including constructions made from brick, block, timber, stone or concrete.

COMPATIBILITY

Homegard is compatible with most materials with which it will be in contact in normal constructions, except for timber preservative treatments, based on creosote or tar oils.

It is unaffected by timber preservatives which are aqueous solutions of salts or by acids and alkalis normally encountered in construction work.

Homegard should not be bonded to surfaces which have been treated or painted with liquid waterproofing treatments, or lapped with bituminous DPC's.

Homegard is compatible with Marleyseal self-adhesive waterproofing membrane, offering the specifier a total high performance waterproofing solution.

If in doubt, consult the Marley Waterproofing Technical Department.

DESIGN OF DPC'S

Homegard DPC should be designed in conjunction with flashings and damp proof membranes to ensure a continuous barrier against water and water vapour. Not only should DPC's form a barrier to the passage of water, but they should also deflect such water to the exterior of the building where it can safely drain away.

POSITION OF DPC'S

The diagram below shows a typical British house construction and identifies where damp proof courses are required. It also indicates other areas where waterproof membranes may be needed.

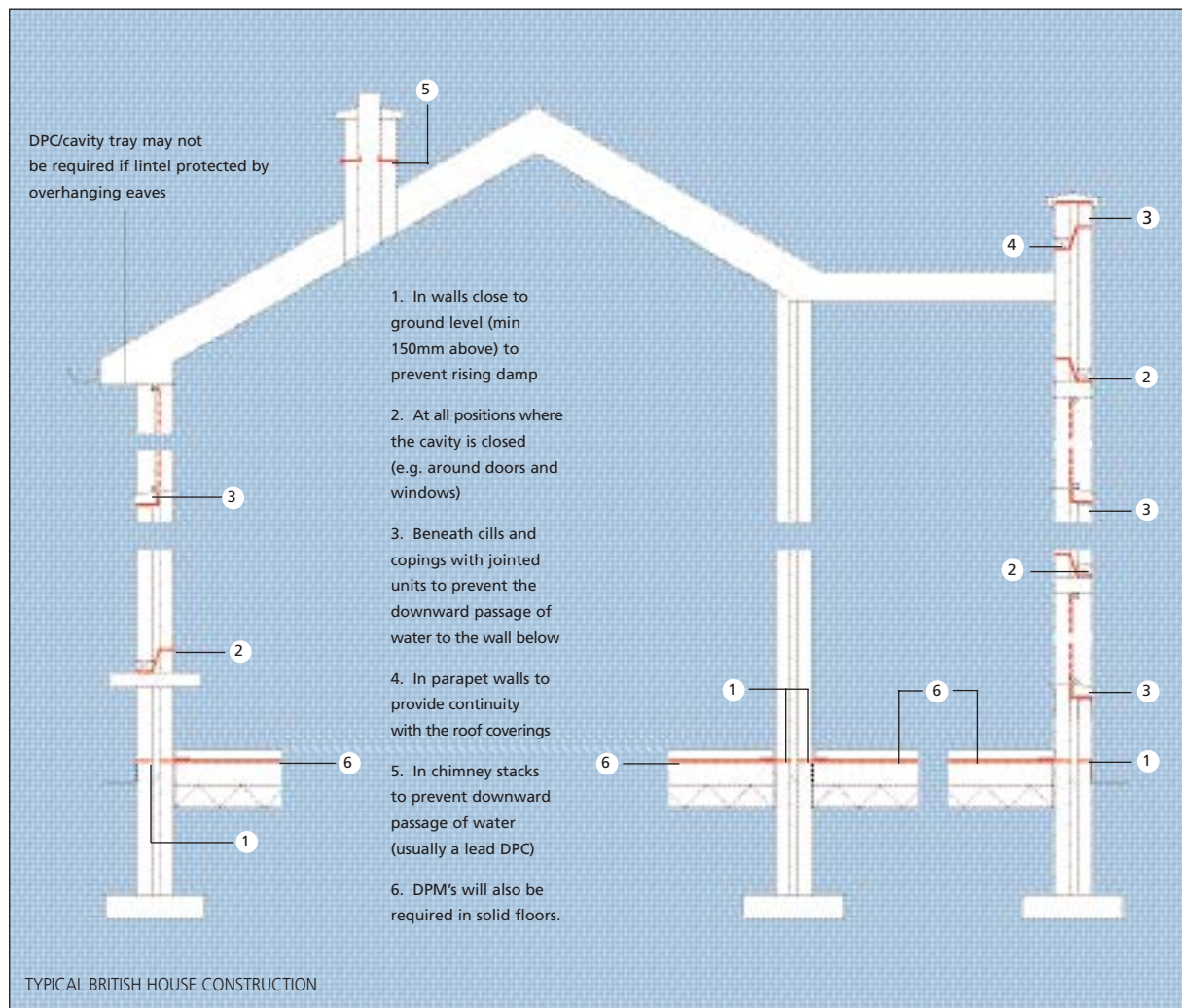
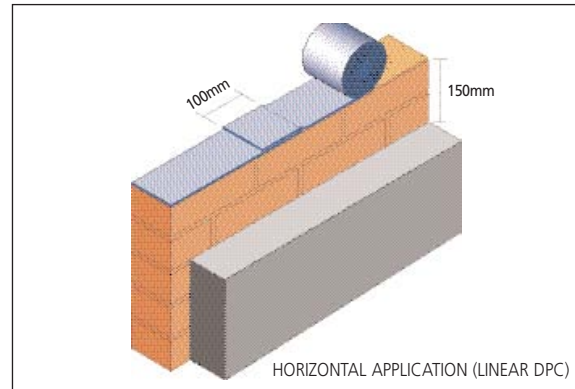
It is essential to ensure that:

- A linear DPC is positioned 150mm above the ground level
- The DPC is co-ordinated around the door and window openings

HOMEGARD AS A LINEAR DPC

Homegard should be rolled out onto a fresh bed of mortar. The thickness of mortar bed should be sufficient to form a good base for the DPC. Additional mortar should be trowelled onto the top, followed by the masonry coursing.

All joints in the DPC should be lapped by a minimum of 100mm. In all situations the DPC should be maintained at a minimum of 150mm above the ground level.



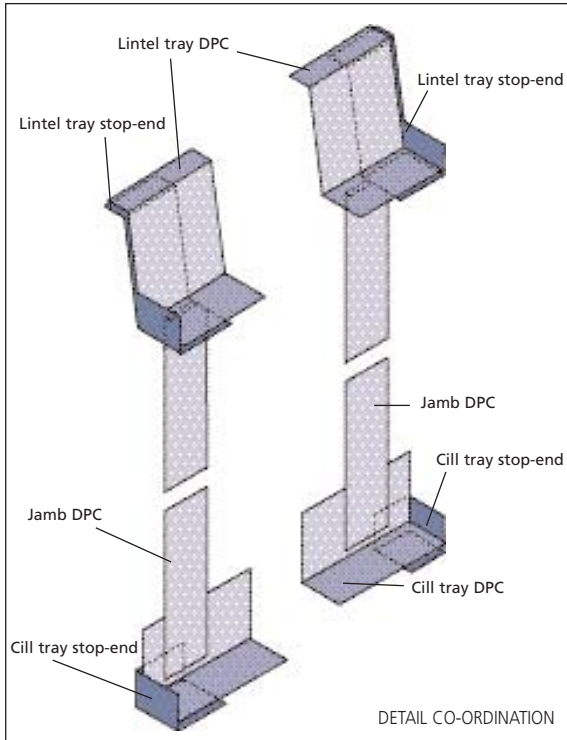
Additional information can be found in BS 8215:1991, BS 5628 and BRE Digest 380 (March 1993)

DETAILING HOMEGARD AROUND WINDOWS

DPC DESIGN

To achieve a waterproof window installation the DPC must be correctly detailed around the window opening.

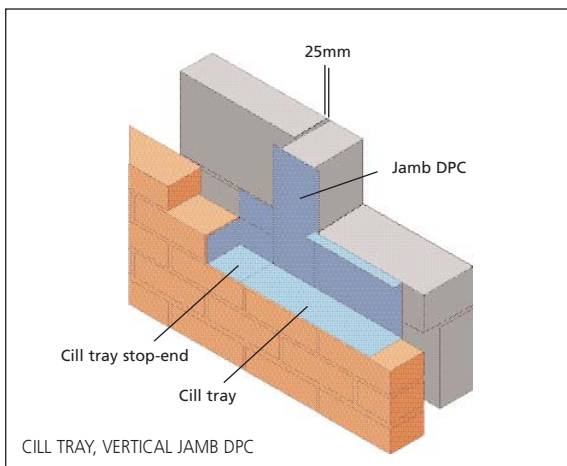
The Homegard cill tray, vertical jamb DPC, lintel tray and pre-formed stop-ends must be co-ordinated as shown in the diagram below.



INSTALLATION

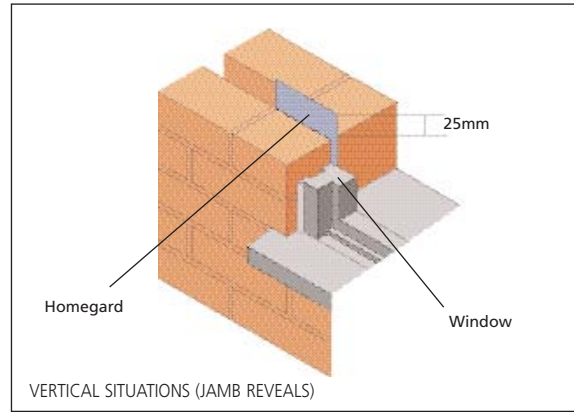
CILL TRAY

The cill DPC should be bedded on to fresh mortar, in the cill bed or the next course below the cill bed. It must extend 150mm past the window opening and be terminated into the pre-formed cill stop-ends.



JAMB DPC

The jamb DPC should project 25mm into the cavity and be terminated into the cill tray. The jamb DPC can either project onto the back face of the window frame or be stapled onto the side.

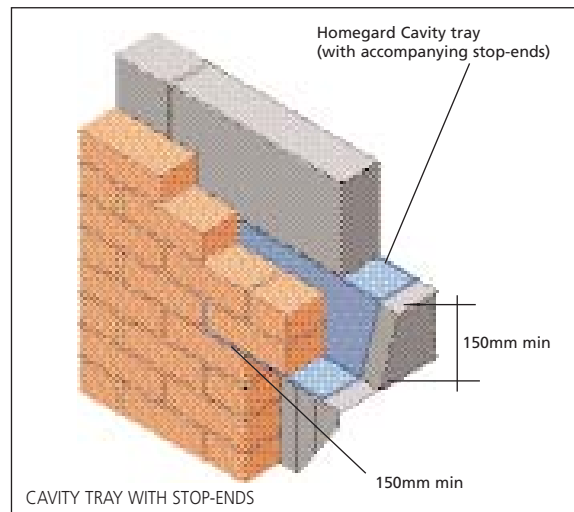


LINTEL TRAY

The lintel cavity tray should be laid onto a fresh bed of mortar and project a minimum of 150mm over the ends of the window reveals, terminating into the pre-formed lintel stop-ends.

The effective height of the lintel cavity tray should be a minimum of 150mm.

Weepholes should be provided in the brickwork at every third perpend.



DETAILING HOMEGARD AROUND DOORS

The DPC design around a door opening is similar to that of a window, with the exception of the cill detail.

The door threshold can be detailed in 2 ways, depending on the wall DPC design.

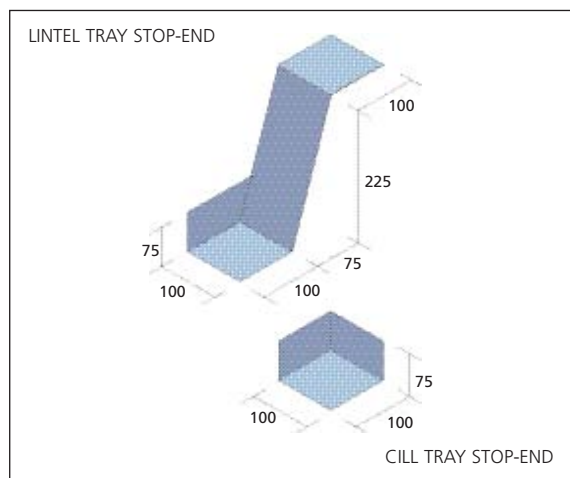
If it is a linear application, the cavity under the threshold should be closed and the DPC continued over the rigid cavity closure.

With a cavity tray DPC at ground level, the cavity tray system will have to be continuous under the threshold.

HOMEGARD PRE-FORMED STOP-END CLOAKS

As stipulated in BS 8215:1991 and NHBC standards 1992, it is essential that stop-ends are provided to cavity trays or combined lintels.

In order to help specifiers and housebuilders satisfy these



HOMEGARD PRE-FORMED CLOAKS	
Weight/m ²	Thickness
2.79kg typical	1.9mm nominal

requirements, the Homegard DPC system includes pre-formed, pitch polymer lintel tray and cill tray stop-ends, removing the need for stop-ends to be fabricated on site. Each pre-formed stop-end is individually manufactured, by a unique hot welding technique. Strict quality control procedures ensures that each Homegard pre-formed stop-end is defect free and will provide continuity with the cavity tray.

HOMEGARD SOLVENT WELD ADHESIVE (NO. 35)

Marley Waterproofing's Solvent Weld Adhesive is a PVC welding solution used to seal Homegard to Homegard. It forms a strong weld and must be used at the junction of Homegard DPC and Homegard pre-formed stop-ends.

SOLVENT WELD ADHESIVE (NO. 35)	
Type of Solvent	Adhesive containing MEK and Cyclohexanone
Flash Point	4°C
Viscosity	1100 cps
Shelf Life (in unopened containers)	6 months
Application Temperature	Not below 5°C
Application Rate	1.25m ² per 1/2 ltr can approx
Container Size	0.5 ltr

SAFE HANDLING PRECAUTIONS

Solvent Weld Adhesive (No. 35) is classified as highly flammable and harmful.

Important - Please refer to product Material Safety Data Sheets

HOMEGARD DPC		
Roll Length	Weight/m ²	Thickness
20m	1.21kg nominal	0.9mm nominal

TYPICAL TEST VALUES		
Typical average values achieved from random testing		
Tensile Strength (Test Method BS 2782:Part 3:1976:Method 320A-320F)		
	Longitudinal	6.60MN/m ²
	Transverse	5.64MN/m ²
Elongation (Test Method BS 2782:Part 3:1976 Method 320A-320F)		
	Longitudinal	226%
	Transverse	193%
Tear Strength (Test Method BS 2782:Part 3:Method 360C:1991)		
	Longitudinal	27.28kN/m
	Transverse	24.92kN/m
Flexural Bond Strength (Test Method BS 5628:1992 Appendix A3)		
		0.52N/mm ²
Water Vapour Permeability (Test Method BS 3177:1995 Temperature Conditions)		
		1.93g/m ² /day
Colour		Black

SQUARE METRES OF MATERIAL PER ROLL			
DPC Position	Width (mm)	m ² per Roll	Product Code
Linear	100	2.00	302010
Linear	112.5	2.25	302011
Jamb	125	2.5	302012
Jamb	150	3.00	302015
Cill Tray	225	4.5	302022
Cill Tray	300	6.0	302030
Cill Tray	337.5	6.75	302033
Lintel Tray	375	7.50	302037
Lintel Tray	450	9.00	302045

PRICING

Prices are available from our Builder's Merchants stockists, details of which are available from our Customer Services Department.

ORDERING

When ordering, reference should be made to the product code and table of standard roll sizes which can be found in the price list and Technical Details Section of this data sheet.

TECHNICAL SUPPORT

For further technical information, please contact the Technical Department on the telephone number given below.

Due to the policy of continuous development, Marley Waterproofing reserves the right to change specifications without prior notice.



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