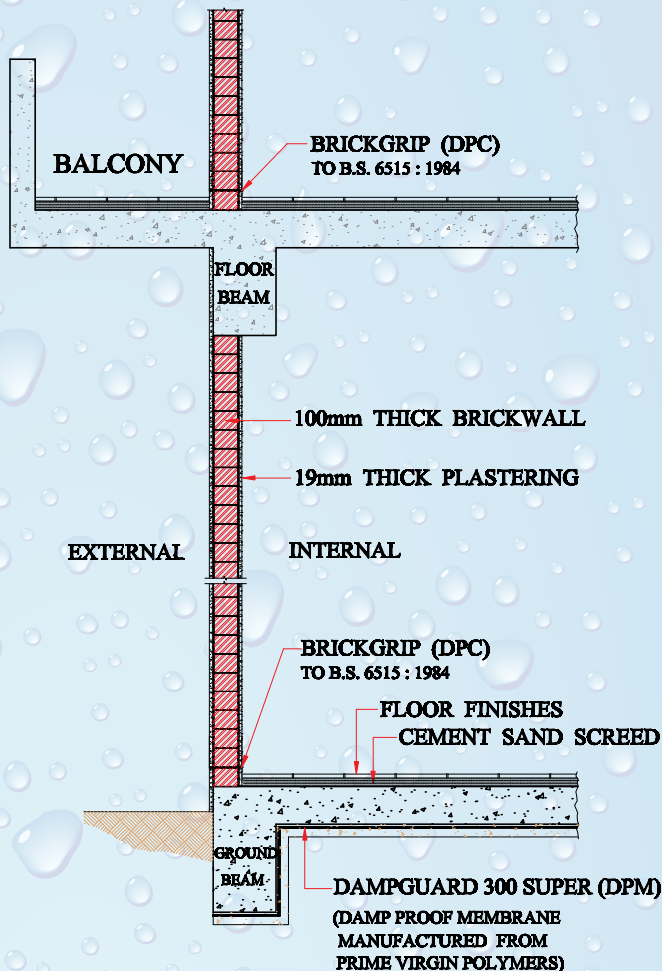




V2 / BG DPC
BRICKGRIP
DATA SHEET 27/9/16

IMPERIALSEALS

BRICKGRIP (DPC) DAMP PROOF COURSE FOR BRICKWORKS



TYPICAL BRICK WALL

BRITISH STANDARD

BS 6515:1984

MADE IN ENGLAND

DAMP PROOF COURSE



Brickgrip is a flexible Damp Proof Course membrane (DPC) manufactured specially for use in bricks, cement & sand blocks, stone works and concrete walls of either solid or cavity wall construction. It is suitable for use in horizontal or in stepped positions and is compatible with all materials with which it is likely to be in contact with in normal construction.

Manufactured from high quality polymers, BRICKGRIP (DPC) is 500 microns in thickness. It is cost effective and durable. BRICKGRIP (DPC) is embossed with a pronounced diamond pattern on both sides of the film to improve mortar adhesion.

Brickgrip is produced to stringent performance standards. It complies and conforms to BS 6515: 1984.

The importance of Damp Proof Courses (DPC'S) is that they provide a barrier to the passage of moisture from an external source into the fabric of the building or from one part of the structure to another. Damp Proof Courses may be laid either horizontally or vertically and can generally be divided into three types:

1. Damp Proof Course placed below ground level to prevent the entry of moisture from the soil.
2. Damp Proof Course placed just above the ground level to prevent moisture from creeping up brick walls through capillary action.
3. Damp Proof Course placed at openings, parapets and similar locations to prevent the entry of rainwater, which falls directly onto the fabric of the structure.



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The protection of walls both internal and external against rising dampness and wetting has often been overlooked or neglected during the early stages of specification or construction. Little or no attention is given to the selection of a good damp proof course. Instead Sub-Contractors are allowed to use whatever they fancy just to satisfy a building requirement.

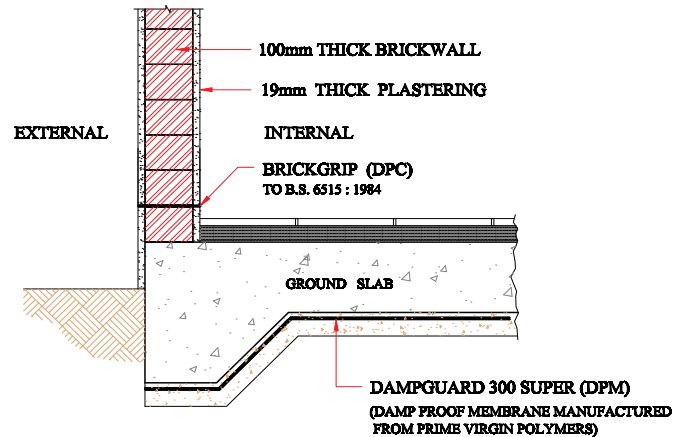
In 3rd World Countries, it is common for Sub-Contractors to:

- ◆ Pour melted bitumen over bricks to serve as a DPC.
- ◆ Or at best they would attach a sheet of China Felt with Bitumen over the first course of bricks.

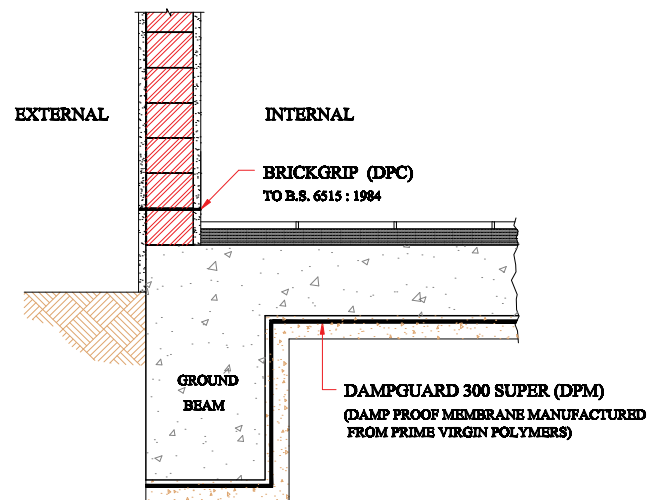
The said methods are used extensively today by sub-contractors who dwell on the contention that they have used it for the last thousand years with no complaints. These people in the building industry are not trained or are not well read. There are no complaints because they have never taken the trouble to go back to review their finished works. What they did not know is:

- ◆ That cured bitumen is rigid and will crack after 3 months.
- ◆ China Felt which comes from China are supplied in rolls for the covering of Roofs in Temporary Workman Shelters or homes. They are never manufactured for Damp Proof Courses. China Felts are made out of cheap cardboard core and saturated with bitumen.
- ◆ It has thousands of microscopic pinholes and hence will never be able to withstand the forces of rising damp.

Developers, Architects & Builders all over the developed world realize the destructive qualities of rising damp on brick work walls and they have for the last 100 years depended on well-designed DAMP PROOF COURSES manufactured by specialized manufacturing companies in England who would produce DPC'S to the BRITISH STANDARDS to insure a high level of quality for Damp Proof Course Products to be used on Building Structures.



NON - SUSPENDED STRUCTURE



SUSPENDED STRUCTURE

*This well known phenomenon can be prevented and it does not take much money to have it treated during the building stages. **WHY** burden the new owners of your buildings with this known defect by using homemade or sub-contractor made DPC'S?*

*Using a DPC which conforms to the British Standard does not cost much but will prevent **the reputation of Developers, Architects and Designers** from being tarnished if they allow their Sub-Contractors to use what they please.*

There are products which meet the British Standard in the market place and these are not expensive. However they can be considered expensive when it is compared with using nothing on these brick walls to prevent rising damp.



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The effects of rising damp on walls without Damp Proof Courses (DPC'S) or walls which are incorporated with poor or low quality DPC'S, are visually recognizable within a few months after construction.

Symptoms

- ◆ Discoloration and dampness on walls, which are visible along the bottom of both the internal and external walls.
- ◆ Discoloration and peeling of wallpaper or paints.
- ◆ Damp rising up walls through capillary action to approximately one meter above floor level to terminate in a line of efflorescence (white particles of salts) with time.

Duration

Left untreated, the blooms of rising damp on walls will be continuous and perpetual. No amount of paints or sealers can be used to camouflage or terminate rising damp. Base treatments with paints are temporary. It will not take long for new paint works on these walls to be blown off by the effects of rising damp.

Selection of DPC

The manufacture of DPC'S from the early beginnings was through the impregnation of fillers with specially graded bitumen emulsion. Bitumen based DPC'S are specially manufactured to conform to the British Standard. The manufacturing to specification specifics is due to the seriousness the Construction Industry takes during construction to prevent the possibilities of RISING DAMP from occurring.

These DPC types are classified under the BS 6398.

BS 6398 TYPE A – a single layer of tough hessian coated both sides with asphalt bitumen.

BS 6398 TYPE B – a fiber based saturated sheeting coated with a grade of bitumen.

BS 6398 TYPE D – a hessian based bituminous DPC with a membrane of sheet lead coated with bitumen.

BS 6398 TYPE E – a fiber based bituminous DPC with a membrane of sheet lead coated completely with bitumen.

Whilst Bitumen DPC'S are still in use, these membranes types are always open to misuse by users unknowingly selecting or allowing the use of paper packed bitumen saturated felts for use as damp proof courses.

With Damp Proof Courses manufactured under BS 6515, the choice and use of DPC'S is made easier and more affirmative to the construction community.

Advantages of BS 6515 Damp Proof Courses

- ◆ Tough and more versatile.
- ◆ Without bitumen content and does not soil the hands.
- ◆ Has a high degree of impermeability.
- ◆ Rot proof.
- ◆ Not supportive of fungal growth.
- ◆ Able to withstand tearing and puncturing.
- ◆ Resistant to acid and alkaline conditions.
- ◆ Grips fast & holds well with deep diamond patterned embossments.
- ◆ Exhaustively tested by the British Building Research Station Report No 2203.

Width mm	100	112.5	150	225	300	337.5	450	600
Length m	30	30	30	30	30	30	30	30

Installation:

Installation should follow normal damp proof course practice. Where appropriate, should comply with BS Code of Practice 102:1973, Section 3 and BS 8215:1991.

For further guidance refer to BS 8102: 1990 Code of Practice for Protection of Structures against water from the ground.



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PROFILES, EXPANSION JOINT WATERPROOFING, EXPANSION JOINT SYSTEMS,
WATERPROOFING FOR WET AREAS