

FILON "DR" DOUBLE REINFORCED SHEETS for repairs to old asbestos cement roofs

Introduction

FILON DR - Double Reinforced sheets. Available in translucent and opaque as a **Direct Replacement** for asbestos cement profiles which are no longer manufactured.

To enhance strength and impact resistance, these sheets incorporate additional woven reinforcement. This extra reinforcement provides a strong composite with sufficient 'built-in' flexibility to enable the sheets to be more easily fixed into an existing rigid asbestos cement roof.

FILON DR sheets are primarily designed for completing repairs to old asbestos cement sheeted roofs. They can be used as a direct replacement or laid over existing damaged sheets.

In either case, this involves removing fixings and fitting the **DR** below the asbestos cement sheets at the head laps and the underlapping side laps.

As this involves a certain amount of pushing and pulling, the additional strength of **DR** reduces the possibility of falling through damaged or broken asbestos cement sheet whilst remedial work is in hand or if anyone accidentally steps on the sheets after the work has been completed.

All asbestos cement roofs must be considered fragile and crawling boards should be used at all times.

Product Range

Profiles

To match six asbestos cement profiles as listed in **Table 1**.

Length

There are three standard lengths available in most profiles - see **Table 1**.

Weight

Weights are shown in **Table 1** to provide the impact strength required. Heavier weight sheets can be manufactured to meet specific structural and wind loadings.

Colours

Cement Grey.

Fire Grade

To meet Building Regulation requirements, sheets are manufactured in two grades, which have been tested under **BS.476 "Fire Tests" : Part 3 and 7**, and have been classified as follows :

Grade 104 - Designated AA Rated Class1

Grade 300 - Designated AB Rated Class3

Performance

All sheets are treated to the weather face with **FILON ORTHOFLEX** gelcoat to ensure a service life of at least 30 years.

Table 1 :

Sheet Length mm	1550	1850	1975	2150	3050	Weight kg/m ²
Cape Fort		✓		✓	✓	2.60
Cape Monad		✓		✓	✓	2.60
Doublesix			✓	✓	✓	2.60
Doublesix M			✓		✓	2.60
Major Tile		✓		✓	✓	2.60
Trafford Tile	✓	✓			✓	3.06



Doublesix M Profile FILON DR Used as a Direct Replacement for Asbestos Cement Sheeting

Structural

The **DR** sheets in the profiles listed in **Table 1**, have been tested in accordance with **HSE Drop Test (Health and Safety Executive, Specialist Inspectors' Report No.30 "Fragile and Non-Fragile Roofing Materials")**. To simulate a human body falling against a flexible material, this test uses a 300mm diameter bag containing 45kg of dry sand, which is dropped 1.2m onto the centre of an assembled test area. Sheets are now required to retain the bag after two drops.

On tests completed using a safety factor of 2 by increasing the drop distance to 2.4m, **FILON DR** sheets secured to purlins recommended by asbestos sheet manufacturers, successfully retained the test weight from falling through the sheet. After two drops **DR** has at least twice the impact strength of standard GRP translucent sheeting.

Applications

Fire : Building Regulations

On single skin applications, where the underside of the FILON sheet would be exposed within a building, specify **Grade 104**.

On double skin applications, where the underside of the FILON sheet would be protected by linings, specify **Grade 300**.

Structural

On normally exposed buildings, not exceeding 10m high with normal permeabilities, fix sheets in every corrugation and secure side laps at centres not exceeding 450mm. Where sheets are not supported on the underside by asbestos cement sheets, rigid shaped supports are required to be located between the underside of the sheet and the supporting member to take the pressures required by the sealing washer without distorting the sheet.

On buildings exceeding a height of 10m, or where they are sited in exposed locations, or where high permeabilities are likely, or in zones of high local loadings adjacent to verges, check with Filon Technical Services Department for recommendations.

Foxley Hall Garages, Kenley



Refurbishment of garage block with FILON "DR" Doublesix by Caretec Building Preservations

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