lasting strength
with fibre-cement

Nutec
ROOFING AND CLADDING SOLUTIONS

Manufactured by
EVERITE
Established in 1941

WINDOWSILLS



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Catalogue Information

The information contained in this catalogue serves as a general guide only and should not be accepted as the standard for all construction. EVERITE can assist in designs of a special nature, however, architects, engineers and specifiers must finally approve the acceptability in terms of the design and construction criteria, as well as other implications.

About Everite and Nutec

Everite Building Products

Everite Building Products, has been associated with the South African building industry since 1941. Producing a wide range of materials that satisfy the needs of the commercial, industrial and residential market sectors, Everite is renowned for its comprehensive range of Nutec Roofing and Cladding Solutions and includes fibre-cement roofing, cladding, ceilings and building columns amongst others.

Nutec fibre-cement high performance properties and added benefits include: the use of safe renewable fibres; considerable tensile strength with enhanced dynamic load bearing properties; excellent thermal properties; water and wind resistance; hail resistance; fire resistance and resistance to fungus, rodents and acid.

A programme of quality assurance in accordance with the requirements of the International Standards Organisation (ISO 9001:2015) is entrenched in Everite's process and management systems.
Quality of all products is continuously monitored as specified by the South African National Standards and recognised international bodies.

Everite's 54 hectare manufacturing facility near Johannesburg is well located and has immediate access to all major road and rail links to national destinations and major ports. The company has branches located at major centres throughout South Africa. Nutec products are distributed through leading stockists countrywide and an established export market further endorses the international acceptance of the Nutec Roofing and Cladding Solutions range of products.

Nutec

Nutec is the registered name for products manufactured without asbestos as a raw material. Nutec fibre cement products are manufactured using a mixture of cellulose fibre, cement, silica and water.

Through ongoing research and development, Everite Building Products are committed to provide product of world-class quality.

Accordingly, the Nutec product range is continuously reviewed not only in the interests of the end-user and superior product performance, but also with respect to its impact on the environment. Everite Building Products has over the years established a reputation for producing a variety of outstanding quality products which have been used in a wide range of external and internal applications.

Environmental benefits of Nutec Fibre Cement

- Environmental costs incurred by using fibre cement are measurably less than for other building materials. (Low embodied energy per m^2).
- Requires less energy in assembly and construction than all other wall materials except timber.
- Low energy consumption in transportation and installation.
- Environmental costs relating to ozone layer depletion, carcinogenic substances and solid waste emissions are almost negligible.
- Low environmental impact in relation to ozone layer depletion, carcinogenic substances, and solid waste emissions.
- No pesticides are involved in the manufacture or use of fibre cement.

The benefits of Nutec Fibre Cement

- The use of safe fibres.
- Considerable tensile strength with enhanced dynamic load bearing properties.
- Cost competitive.
- Excellent thermal properties.
- Water tight and wind resistant.
- Hail resistant.
- Fire-resistant.
- Fungus and rodent resistant.
- Acid resistant.
- Complies with SABS ISO 9933.
- ISO 9001 : 2015 Quality Management System.

The environmental benefits in the manufacturing process of Nutec Fibre Cement

- Recycling the water used in production many times.
- Recycling solid wastes.
- Using sustainable raw materials in production.

Embodied Energy – Definition

Embodied energy is the energy consumed by all of the processes associated with the production of a building, from the mining and processing of natural resources to manufacturing, transport and product delivery. Embodied energy does not include the operation and disposal of the building material. This would be considered in a life cycle approach. Embodied energy is the ‘upstream’ or ‘front-end’ component of the lifecycle impact of a home. Fibre cement is one of the most energy efficient materials on the market and it has one of the lowest embodied energy contents per square metre of cover of any building product.

Nutec Windowsills

Nutec Windowsills are ideal for industrial, commercial and residential applications. Available in lengths to suit standard steel window frames and widths for standard wall thicknesses, Nutec Windowsills can be cut to suit non-standard steel, wood and aluminium window frames. Supplied with a smooth finish in their natural colour, Nutec Windowsills do not require any surface treatment for protection. However, a clear wax polish can be applied to enrich the natural colour, or they can be painted on site with any Acrylic PVA water based paint without pre-treatment.

Features

Nutec Windowsills exhibit all the inherent features of Nutec fibre-cement and provide a cost effective solution when compared to alternative windowsill materials.

Nutec Windowsills are:

- Cost effective.
- Light in weight and easy to cut and install (tungsten tip blades are needed to cut).
- Not affected by moisture and resistant to rot and corrosion.
- Manufactured to a 15 mm thick pressed high density fibre cement.
- Nutec Windowsills carry the SABS mark under specification SANS 803.
- Everite is an accredited ISO 9001:2015 Quality Management System listed company.

Product Range

Nutec Windowsills Product Range, Dimensions and Properties

15 mm thick (Pressed High Density)

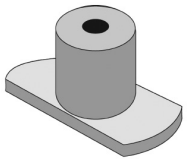
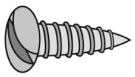
Size : 150 mm wide

Product No.	Length mm	Average Mass per unit (kg)
031-507	533	2
031-508	1 022	4
031-509	1 511	6
031-510	2 000	7
031-511	2 489	9
031-512	3 000	11
031-501	3 600	13

Size : 175 mm wide

Product No.	Length mm	Average Mass per unit (kg)
031-516	533	2
031-517	1 022	4
031-518	1 511	7
031-519	2 000	9
031-520	2 489	11
031-521	3 000	13
031-502	3 600	15

Fixing Accessories

Product No.	Description	Sketch of Article
685-119	Windowsill lug	
685-110	10 mm x 10 mm self-tapping screw	

General Design Criteria

Standard Windowsills

Windowsills are supplied cut to size complete with fixing accessories. If sills are supplied in long standard lengths to be cut on site they will not be pre-drilled.

The setting out for the drilling must be carried out as follows:

- The distance between any two lug fixing holes should be approximately 400 mm.
- The distance between the end of the Windowsill and the first and last hole should not exceed 75 mm.

Other Windowsill Applications

Consult EVERITE for designs of a special nature: for example timber and steel framed structures. This service is provided free of charge and without obligation, but architects, engineers and specifiers must finally approve the acceptability in terms of the design and construction criteria, as well as other implications.

Fixing Accessories

The underside of the sill is pre-drilled to receive the lug and a self-tapping screw.

Site Service

Site service personnel are available on request and at no charge, to provide assistance on recommended storage, handling and erection of the Company's products.

Safety, Storage and Handling Instructions

General

Manufactured from Nutec fibre-cement, Nutec Windowsills do not contain asbestos fibre and are therefore excluded from the following:

- Asbestos Regulations of 2001, which forms part of the Act No. 85: Occupational Health and Safety.
- South African Code SANS 10229: Packaging of dangerous goods for road and rail transportation in South Africa.

They do not pose any adverse effects on the environment. Off-cuts and dust created during site work may be disposed off on any non-hazardous waste landfill site.

General Handling

Nutec Windowsills are manufactured from a composite material containing cement and may be damaged under excessively high shock loads. Reasonable care should therefore be taken to ensure that the products are not dropped or subjected to rough handling.

Storage

- Prior to Installation Windowsills must remain on pallets and kept under cover until installed.
- Strict stock rotation should be adhered to.

Storage On-site:

- A suitable level compacted area must be made available where Nutec Windowsills can be stored safely so that they cannot be damaged or soiled by passing traffic.
- They must be stacked clear off the ground on suitable timber supports at maximum 600 mm centres.
- **Preplanning: Adequate preplanning of deliveries should be made to ensure that Nutec products are not stored on site for excessive periods. If this is unavoidable, they should be kept under cover until installed.**

Handling

- Although Nutec windowsills do not contain asbestos fibres, it is nevertheless recommended that when working with the product, tools which do not create excessive dust are used.

General Installation Guidelines

General

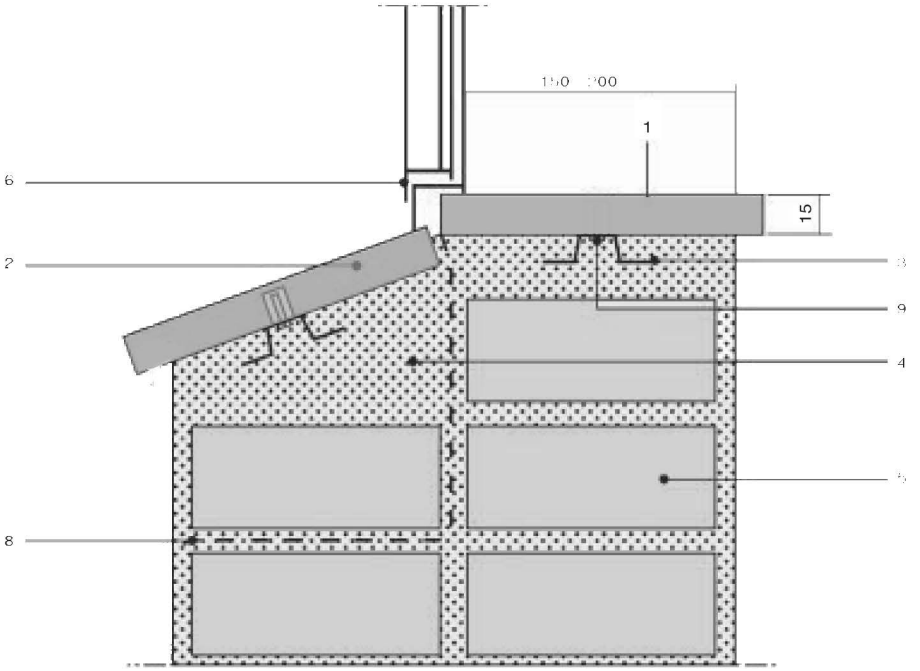
- Before setting the sill in the mortar ensure that the metal lugs are firmly attached to the sill. The product should also be soaked in water prior to bedding.
- Where only a thin mortar bed is possible and the metal lug cannot be fully embedded, pockets in the masonry should be provided to ensure adequate fixing.
- In cases where sills are to be plastered into reveals, sill ends should be separated from the plaster by means of a thin joint or plastic sheeting to allow for minor expansion or shrinkage. This will prevent possible plaster cracks from developing.

Installation Procedures

Installing the Sill

- Lay a bed of mortar on top of masonry of concrete which has previously been prepared to the desired level and slope.
- Place the top edge of the sill under the leading edge of the window frame.
- Press the sill down firmly so that the metal lug is well embedded into the mortar. Ensure that the sill runs parallel to the window frame and the wall on which it is laid.
- Although the sills are all autoclaved which reduces any tendencies to warp, it is recommended that the sills should be kept damp by means of regular water spraying or covering with wet bags. This will assist in the curing of the mortar bed.

Fig 1 : Section showing internal and external sills in position

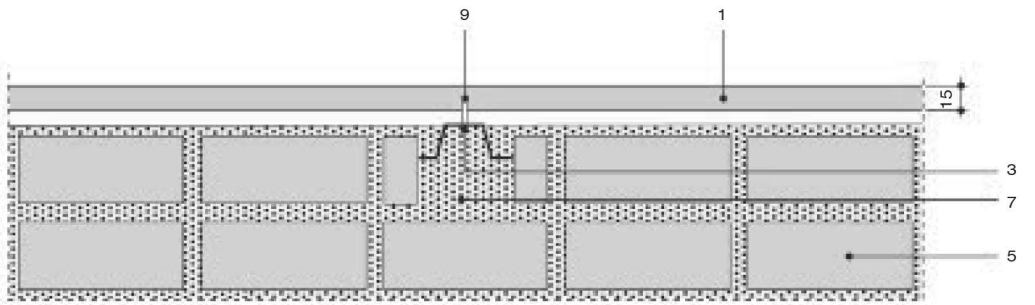


KEY - for Fig 1 and 2

1	Internal Windowsill	6	Steel window frame
2	External Windowsill	7	Pocket for lug
3	Fixing lug	8	Damp proof membrane
4	Mortar bed	9	Self tapping screw
5	Brickwork		

All dimensions in mm.

Fig 2 : Section through sill showing pocket for fixing lug



All dimensions in mm.

EVERITE NATIONAL OFFICE

Call Centre + 27 11 439 4400
www.everite.co.za

OTHER REGIONS

Sales Support Office
Telephone + 27 11 439 4400

Bloemfontein
Call Centre + 27
+ 27 11 439 44000
8049

Cape Town
Telephone + 27 21 981 5212

Durban
Telephone + 27 31 701 0949

East London
Mobile + 27 82 321 5451

George
Telephone + 27 44 873 2408
Mobile + 27 83 286 3435

Middelburg (Mpumalanga)
Mobile + 27 83 778 2787

Polokwane
Telephone + 27 15 297 3559
+ 27 15 297 3560/1

Port Elizabeth
Telephone + 27 41 451 0655
Mobile + 27 83 780 6162

Botswana (Gaborone)
Telephone + 27 11 439 4400

Namibia
Mobile + 264 81 124 2655



EVERITE

www.everite.co.za
call centre:+27 11 439 4400