



Fiber cement corrugated roofing sheet

100% ASBESTOS FREE

Advantages

- Contains NO Asbestos
- Corrosion resistance
- Weatherproof
- Non- combustible
- Maintenance-free
- Easy to install and fix

About US

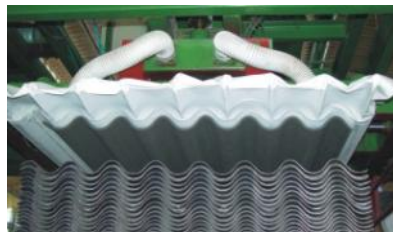
Vietnam Investment and Technology Development Company Limited (VITD) was established in 2002, headquartered in Cau Giay District, Hanoi, Vietnam. VITD has been doing business in the field of fiber cement for many years.

In the trend of asbestos banning in the world, VITD invested in existing local FC manufacturers to create a common system of production and supply for non-asbestos products together with strict quality control by which meet toughest customer's demand. These products launched under the brand DURAGREEN and VITD is the proprietor.

Our fiber cement roofing sheets is completely ASBESTOS-FREE. Reinforcement material is KURALON fiber, manufactured and supplied by the KURARAY GROUP, a world famous manufacturer of chemical and synthetic fiber.



Modern production line and high automation level



ASBESTOS BAN:

Fiber-cement asbestos based products had been widely used in the world due to their versatility as corrugated and flat roofing materials, cladding panels presented in large number of building and agriculture applications.

Following the worldwide tendency for replacing asbestos, manufactures started to look for new alternatives for fiber reinforcement which comply with Hatschek machines and provides good performance and high functional durability products. In addition to long term durability, compatibility to Portland cement matrix, process ability, availability and cost, alternative fibers for reinforcement must have high mechanical properties. High tenacity, high modulus and reduced elongation at rupture are considered key attributes.

PVA FIBER AS AN ALTERNATIVE TO ASBESTOS FIBER

It is apparent that the long-term durability under hostile environments is required for a reinforcement material used in roofing. PVA fiber have been used as a reinforcement material of cement for more than 25 years because they have high alkaline resistance and high tensile strength. In fact, it was confirmed that the tensile strength of the fiber in cement sheet has kept their original levels after about 20 years outdoors exposure test. The change of tensile strength of the fiber with time is generally very small.

Testing of Kuralon (PVA filament yarn manufactured by Kuraray, JAPAN):

Yarn count and number of filament: 2000 dtex / 1000 filaments

Tensile strength : 196 N

Elongation at break : 6.7%

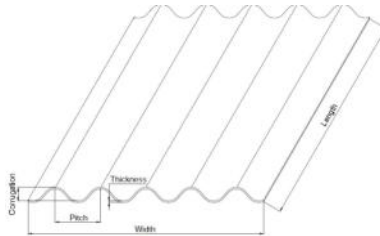
Elastic modulus : 4060 N(26.4 GPa)

Loss on boiling for 30 minutes : less than 1%

Big wave profile 177/51 fiber cement roofing sheet

This profile is most popular in Vietnam and all around the world which used widely in residential building, agriculture and industrial application.


This profile comes in natural grey color.



| Materials | (wt%) |
|------------------------|----------|
| PVA fiber "Kuralon" | 1.0-2.0 |
| Pulp (Cellulose fiber) | 2.0-5.0 |
| Inorganic additives | 5.0-10.0 |
| Cement (O.P.C.) | Balance |

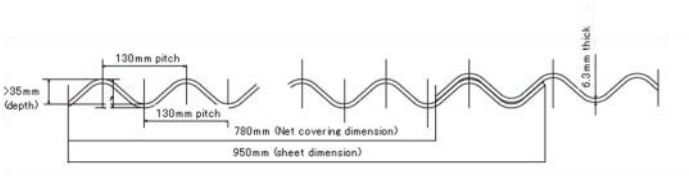
| Test method | Results | Measurement |
|------------------------------|--------------|---------------|
| Bending load (more than) | 3600 | (N) |
| Water absorption (less than) | 30 | (%) |
| Shrinkage | approx. 0.25 | (%) |
| Heat conductivity | 0.3 | (kcal / mh°C) |

| Length | Dimension (mm) | | Weight (kg/m ²) | Mountains | Overall Depth | Pitch of corrugations |
|--------|----------------|---------------|-----------------------------|-----------|---------------|-----------------------|
| | Width | Thickness | | | | |
| 1520 | | | | | | |
| 1800 | | | | | | |
| 2500 | 920 (±5) | 6.0 (±0.6) | 14-15 | 5.5 | 51 | 177 |
| 3000 | | | | | | |

 To Order Call: +84.915.240.240

Medium wave profile 130/35 fiber cement roofing sheet

This profile is popular in Japan and Korea which used widely in residential building, agriculture and industrial application. This profile comes in natural grey color.

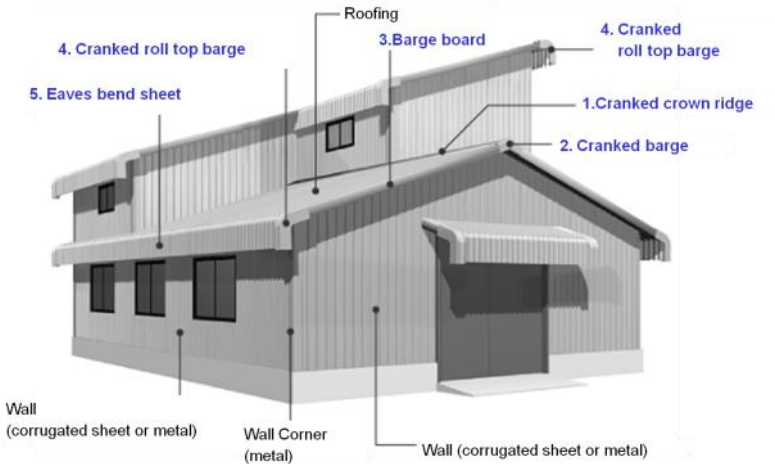


| Materials | (wt%) |
|------------------------|----------|
| PVA fiber "Kuralon" | 1.0-2.0 |
| Pulp (Cellulose fiber) | 2.0-5.0 |
| Inorganic additives | 5.0-10.0 |
| Cement (O.P.C.) | Balance |

| Test method | Results | Measurement |
|------------------------------|--------------|---------------|
| Bending load (more than) | 3600 | (N) |
| Water absorption (less than) | 30 | (%) |
| Shrinkage | approx. 0.25 | (%) |
| Heat conductivity | 0.3 | (kcal / mh°C) |

| Dimension (mm) | Weight | Mountains | Overall | Pitch of | | |
|----------------|----------------------------------|------------|---------|--------------|-----|-----|
| Length | Thick- ness (kg/m ²) | | Depth | corrugations | | |
| Width | | | | | | |
| 1820 | | | | | | |
| 2000 | | | | | | |
| 2120 | 960 (±5) | 6.3 (±0.6) | 14-15 | 7.5 | >35 | 130 |
| 2400 | | | | | | |

Roofing accessories- Medium wave profile 130/35



Maximum bending strength - Uniformly distribute bending

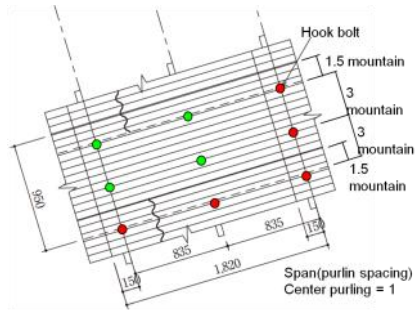
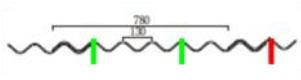
| Span | Sheet length (mm) | Overlap (mm) | span (mm) | Bending strength (N/m ²) |
|-------------------|-------------------|--------------|-----------|--------------------------------------|
| Center purlin = 1 | 1820 | 150 | 835 | 9469 |
| | 2000 | 180 | 910 | 7973 |
| | 2120 | 150 | 985 | 6805 |

Other reference:

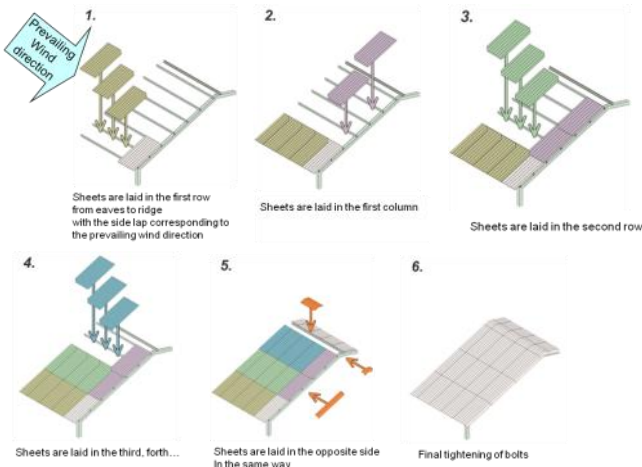
| Span | Sheet length (mm) | Overlap (mm) | span (mm) | Bending Load (N/m ²) |
|-------------------|-------------------|--------------|-----------|----------------------------------|
| Center purlin = 1 | | | 1200 | 4585 |
| | | | 1500 | 2934 |

Installation guide line: end laps, fixing:

| | |
|------------------------------|---|
| Minimum end lap | 150mm |
| Side lap | 170mm (1.5 mountain) |
| Maximum unsupported overhang | 300mm |
| Minimum roof pitch | 8° |
| *Standard roof pitch | 17° |
| Span | Center purlin = 1 |
| *Maximum purlin spacing | 985 mm |
| Fixing | 4 bolts per sheet (2 bolts per purlin per sheet) |



Laying sequence





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For Distributor:

