Sanle Non-asbestos Colored Roof Tile is the produced by our factory with introduced into overseas advanced technology, equipment and materials. It’s a brand new, green environmental protection roofing product, which is 100% asbestos FREE and without other harmful components. This is a fiber cement product, the main raw materials of which are high grade Portland cement 42.5, cellulose fiber, PVA fiber, and super-thin silicate powder. It’s produced by strict process, adopting Hetschek producing technic.

Sanle Colored Roof Tile can be used in industrial plants, warehouse, civil house, flatness changed to slope and villas etc. Its style is artistic, fashionable and easy to install.

In developing the Sanle, a great number of aspects have had a vital effect on its design and appearance. The new product would have to:

- have a characteristic profile and size
- include a full color range
- be quick and simple to lay
- be resistant to the rough climate
- sell at a competitive price
- workability
- light weight with high strength performance
- sound-tight
- acid-resistant with stable chemical characters
- heat isolation
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>STANDARDS</th>
<th>ACTUAL TEST VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRANSVERSE BENDING STRENGTH</strong></td>
<td>≥3000 N/m</td>
<td>4900 N/m</td>
</tr>
<tr>
<td><strong>COMPRESSIVE STRENGTH</strong></td>
<td>No crack or slipping-off appears on the side of the surface of the tile conforms to the standards</td>
<td></td>
</tr>
<tr>
<td><strong>WATER ABSORPTION</strong></td>
<td>≤26%</td>
<td>22.8%</td>
</tr>
<tr>
<td><strong>WATER LEAK-PROOF PROPERTY</strong></td>
<td>No water leakage appears on the other side of the surface of the tile conforms to the standards</td>
<td></td>
</tr>
<tr>
<td><strong>FROST RESISTANCE</strong></td>
<td>No flakes on the surface of the tile after 25 times thaw-freeze test conforms to the standards</td>
<td></td>
</tr>
<tr>
<td><strong>AGING-ENDURANCE (1000h)</strong></td>
<td>PULVERIZATON, GRADE No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>COLOR VARIATION, GRADE ≤2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>ABERRATION VALUE (ΔE) ≤3</td>
<td>0.66</td>
</tr>
</tbody>
</table>

### PROFILE

<table>
<thead>
<tr>
<th>PROFILE</th>
<th>DIMENSION L×W×T (MM)</th>
<th>WEIGHT/PIECE(KGS) (approximately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHOLE TILE</td>
<td>1800×1000×5.2</td>
<td>18.00</td>
</tr>
<tr>
<td>ADJUSTABLE RIDGE CAPPING</td>
<td>1000×350×5.2</td>
<td>5.00</td>
</tr>
<tr>
<td>RIDGE WITH FIXED ANGLE</td>
<td>1000×620×5.2</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>500×620×5.2</td>
<td>3.00</td>
</tr>
</tbody>
</table>

※ Sanle roofing tile is available in the standard colors of blue, green and red, however, is also available to order in other colors. The area per piece is 1.75 ㎡, and the usable area of that is 1.44 ㎡ - 1.53 ㎡.

※ The construction area of the tile is 80%-85% of the whole tile area.

The product conforms to the standards for building materials included in the Certifiable Technical Requirement for Industrial Type Material developed by NATIONAL RESEARCH CENTER OF TESTING TECHNIQUES FOR BUILDING MATERIALS and, NATIONAL TEST CENTER OF POLYMER AND CHEMICAL BUILDING MATERIALS.
SANLE colored roof tile is a new-style, light and reinforced roof tile, which is suitable to be used in various roofing structures. To guarantee the waterproof purpose, safety during construction and good appearance of roofs, the gradient of roof shall not be less than 1/10 (or special waterproof disposal is necessary in the joint.), the length of joint shall not less than 200mm, and the distance between purlines shall not be more than 800mm.

Notices during construction:
★ Please don’t install the roof tiles when the weather is heavily windy, because of their large area.
★ To assure the safety during construction, please install temporary walkways on the roof firstly, and make safety facilities and mark under.
★ The builders should wear clean rubber overshoes with soft bottom. To step on the roof tiles without support of purlines is strictly prohibited.
★ Don’t stack heavy or other sharp materials on the roof tiles, Don’t use the roof tiles as worktable.
★ Please drill on the roof tiles by electric drill, cut the tiles by electric saw with thin tooth-like part and fill the holes by adhesive. Don’t drill holes by steel nails directly.
★ Please wear mask during cutting, for the sake of your health.

Installation methods:
1. (Before installation) Please see the big and small arcs clearly. Put the small arc under the big arc at joint.

2. (Before installation) Choose the direction of the roof tiles according to the local wind direction.
3. *(Before fixing)* Drill holes

Drill the holes on the second and forth wave. Don’t drill the holes on other parts. Enlarge the holes firstly. It’s better that the diameter of the holes is 2-3mm bigger than the nails, to avoid breaking etc. due to natural distortion during the using process. The material details are according to actual construction norms.

4. **Fixing**

Fix the roof tiles by special nails. Adjust the appropriate degree of tightness to avoid leaking due to excessive looseness and breaking of roof tiles due to excessive tightness during natural change.
Without heat preservation layer

With heat preservation layer
Used on reinforcing steel bar and concrete roof

With additional waterproof layer and heat preservation layer

Without waterproof layer and heat preservation layer
With heat preservation layer but without additional waterproof layer

Accessories

- Middle Ridge
- Middle Ridge Y-Apex
- End Ridge
- Y-Apex
- Gable Rake
- X-Apex
- Gable End Rake
- Adjustable Ridge
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Plant

Plant
Applications
Projects

- Workshop and warehouse of Majuqiao Electric Wire and Calbe Factory  8,000 m²
- Workshop and warehouse of Daxing District Jinxing White House Industrial Zone  50,000 m²
- Laiguangying Building Materials Market  20,000 m²
- Flatness to Slope project of residential house in Yangtuo Coal mine in Mentougou  4,000 m²
- Zhuozhou Development market  8,000 m²
- Fruit market in Langfang  6,000 m²
- Shigezhuang Industrial Park in Chaoyang district  40,000 m²
- Garments Industrial Park at Dashengzhuang in Daxing District  30,000 m²
- Project of City Building Engineering Design in Foshan city Guangdong province  10,000 m²
- Workshop of Nanhai Huaxing Heat Preservation Equipments Co., Ltd  10,000 m²
- Workshop of Nanhai Xinyou Electric Equipments Factory  60,000 m²
- Workshop of Nanhai Xinyou Electric Equipments Luocun New Factory  60,000 m²
- Ningxia Province flatness to slope project  300,000 m²

Sincerely look forward to cooperating with you!

Sanle Building Materials

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