

Terra Barrier

Steel Wire Orange Safety Fence (PVC coated)

General Product Description:

The Terra Barrier Safety Fence is galvanized steel wire (PVC coated construction orange) double twisted into a high tensile hexagonal mesh fence fabric. Terra Barrier is utilized to form a true *safety barrier* for crowd protection, manholes, construction sites etc...

Advantages of Terra Barrier Steel Safety Fence:

- ***Terra Barrier*** mesh is construction safety orange for high visibility.
- ***Terra Barrier*** is heavy duty steel wire mesh double twisted possessing a minimum punch strength of 4000 lbs/ft.
- ***Terra Barrier*** mesh does not unravel (example: if someone desired to penetrate the mesh barrier they would have to cut a hole in the steel mesh to match their body size prior to penetrating the safety barrier.)
- ***Terra Barrier*** does not require horizontal stretching for installation.
- ***Terra Barrier*** is provided with a fastening system. The fastening system will help to insure the material stands erect as long as is required with one fast and easy installation with very little if any maintenance.
- ***Terra Barrier*** may be used with any post type, the most common and the Terra-Tite fastening system fit a 1.33lb/ft steel t-post.
- ***Terra Barrier*** comes in easy to handle rolls.
- ***Terra Barrier*** will withstand typical job site vandalism.
- ***Terra Barrier*** system will assist in securing a stable protected work site.
- ***Terra Barrier*** is ***very cost effective*** considering the increased safety and security of the work site, the fast installation and low maintenance cost, and the ability to reuse the material many times.

Mesh:

The mesh shall be woven into a uniform double twisted hexagonal mesh pattern. The double twisted mesh shall not unravel in the event one or more wires are broken. The mesh shall be mechanically anchored to a top and bottom selvedge wire of larger diameter than is the mesh. The mesh opening size shall be (6x8cm) or 2-1/2 inches by 3-1/4 inches. The mesh shall have a minimum punch strength of 4000 lbs/ft. The longer dimension of the hexagonal mesh opening shall run horizontally not vertically when fence material is standing installed.

Wire:

Poly Vinyl Chloride (pvc) coated galvanized steel wire

- diameter of galvanized steel mesh core wire: 0.087 inches
- diameter of galvanized steel mesh core wire plus pvc coating: 0.122 inches
- diameter of galvanized steel selvedge core wire: 0.105 inches
- diameter of galvanized steel selvedge core wire plus pvc coating: 0.146 inches
- diameter of galvanized steel wire has a tolerance of + or – 0.004
- nominal thickness of pvc coating for mesh wire: 0.175 inches
- nominal thickness of pvc coating for selvedge wire: 0.205 inches
- nominal thickness value has a tolerance of + or – 0.004
- zinc coating of galvanized steel mesh core wire: Class 1 zinc coating class
- zinc coating of galvanized steel selvedge core wire: Class 1 zinc coating class
- tensile of galvanized steel selvedge and mesh core wire: 60,000 – 70,000 psi

Pvc coating: Terra Barrier (Orange)

PVC (poly vinyl chloride) shall be suitable to resist deleterious effects from extended exposure to sunlight, immersion in salt or polluted water and shall not show any material difference in its initial compound properties. The Pvc coating shall also be resistant to attack from most abrasive forces. The Pvc coating shall be durable and long lasting.

- A. The PVC COATING shall represent the following initial properties:
1. Specific gravity:
According to ASTM D-792, range of 1.25
 2. Tensile strength
According to ASTM D-412, 2800 psi
 3. Modulus of elasticity
According to ASTM D-412, not less than 1700 psi at 100% strain
 4. Resistance to abrasion
According to ASTM 1242, weight loss < 12% (Method B)
 5. Low Brittleness Temperature
According to ASTM D-746, -20 degrees centigrade recommended temperature 350-370 degrees F.
 6. Hardness
According to ASTM D-2240, Hardness (shore A) +or- 3 instant A-95
 7. Elongation
According to ASTM D-412, 275
- B. Variation of the initial properties will be allowed, as specified following, when the Specimen is submitted to the following accelerated aging tests:
1. ACCELERATED AGING TEST
 - i. Salt spray test:
According to ASTM B-117
Time period of test = 3000 hours
 - ii. Exposure to ultraviolet rays:
According to ASTM D-1499 and ASTM G-23 (apparatus type E)

2. Time period of test = 3000 hours at 63 degrees centigrade when tested in Accordance with ASTM D-1203 and ASTM D2287

After the above tests have been performed, the PVC compound shall exhibit the following properties:

C. Properties After Aging Test

1. Appearance:
The vinyl coating shall not crack, blister or split and shall not show any remarkable change in the color.
2. Specific Gravity:
Shall not show change higher than 10% of its initial value.
3. Durometer Hardness:
Shall not show change higher than 10% of its initial value.
4. Tensile strength:
Shall not show change higher than 25% of its initial value.
5. Elongation:
Shall not show change higher than 25% of its initial value.
6. Modulus of Elasticity:
Shall not show change higher than 25% of its initial value.
7. Brittleness Temperature:
Cold blend temperature- Shall not be higher than -20 degrees centigrade
Cold flex temperature- Shall not be higher than +18 degrees centigrade.

Terra Barrier Product Dimensions

Roll height	Roll length	LBS per Roll
4'	50'	63
6'	50'	94
9'	50'	140

*custom roll lengths and heights available upon request

*mesh rolls available in any color upon request for additional applications

The color pigments selected for the orange poly vinyl chloride coating used to manufacture **Terra Barrier** has been carefully selected for their superior performance to long term Ultraviolet exposure. Additional high performance Ultraviolet inhibitors have been added to the plastic compound make up of the poly vinyl coating to insure long term color protection and increase life expectancy of the material.

Any questions or comments concerning the **Terra Barrier** product shall be directed to the manufacturer.

Terra Barrier is manufactured by:

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