

Material

Geoflex is a co-extrusion profile made out of PVC, the core is from 100% recycled PVC and the outer layer is made out of 100% virgin PVC

- Weather/UV resistant
- Resistant to rodents
- Environmental save
- Easy to install
- Corrosion resistant
- Cost effective

Applications

Geoflex can be used as an alternative for tropical hardwood or impregnated wood for the following applications :

- Shore protection
- Quay wall
- Cut-off wall
- Soil retaining wall
- Fish lader
- Marinas

| Physical properties | Symbol | Unit | Standard | 210-C | 210-SP | 420-SP |
|------------------------|--------|-------------------|----------|-------|--------|--------|
| Material | | | | PVC | PVC | PVC |
| Weight sheet | | kg/m | | 3,4 | 3,4 | 5,3 |
| Weight wall | | kg/m ² | | 11,2 | 13,6 | 21,2 |
| Width sheet | b | mm | | 300 | 250 | 250 |
| Depth of cross section | H | mm | | 95 | 192 | 210 |
| Wall thickness | d | mm | | 6,0 | 6,0 | 8,0 |

Mechanical properties

| | | | | | | |
|--|----------------|------------------------------------|------------|----------|----------|----------|
| Density PVC material | | gr/cm ³ | | 1,4 | 1,4 | 1,4 |
| Tensile strength | | mPa | EN ISO 527 | 48,0 | 48,0 | 48,0 |
| Tensile elongation at F _{max} | | % | EN ISO 527 | 4,5 | 4,5 | 4,5 |
| Flexural strength | σ _b | mPa | EN ISO 178 | 68,0 | 68,0 | 68,0 |
| Flexural modulus | E | mPa | EN ISO 178 | 2.350 | 2.350 | 2.350 |
| Shore hardness | | °Shore | ASTM D2240 | 79,0 | 79,0 | 79,0 |
| Moment of inertia | I | 10 ⁴ mm ⁴ /m | | 570 | 5.000 | 10.320 |
| Moment of resistance | W | 10 ³ mm ³ /m | | 116 | 498 | 926 |
| Maximum moment | M | kNm/m | | 7,88 | 33,86 | 62,97 |
| Impact strength* | | | NEN EN 477 | no break | no break | no break |

* Dropcone is 1,0 kg and dropheight is 2,0 m

210-C Corrugated wall from Geoflex 210

210-SP Sheet Pile wall from Geoflex 210

420-SP Sheet Pile wall from Geoflex 420

Note : All mechanical and physical properties are initial average values, standard variations in strength and physical properties of 10% have to be allowed for.

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