Multiple Stage Reinforced Structural Recycled HDPE Plastic Lumber

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Features and Applications

Performance features of multiple stage reinforced structural recycled HDPE plastic lumber include:

- Low life cycle cost
- Will not rot, corrode, or decay
- Unaffected by marine borers
- Choice of flexural modulus to suit different applications
- Can be pile driven, sawn, and drilled
- Low friction coefficient
- Ultra-low maintenance
- Custom colors available
- Unlimited lengths (depending on manufacturer)

Multiple stage reinforced structural recycled HDPE plastic lumber is suitable for many marine applications such as fender piles and systems, structural piles, bridge protection, guide walls and locks, corner fenders, dolphins, navigation markers, walings, and bullrails.

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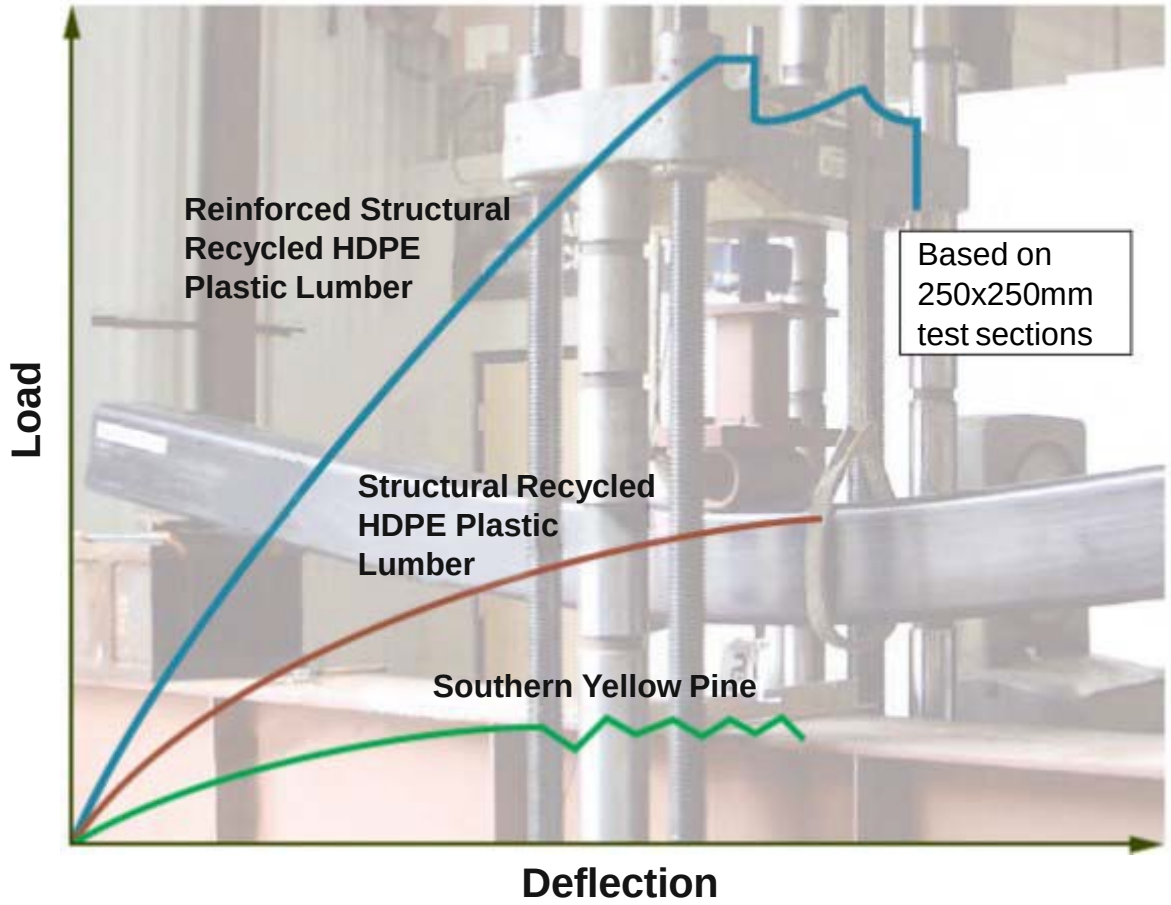
Multiple stage reinforced structural recycled HDPE plastic lumber piles and timbers have good energy absorption characteristics through system deflection at a given load, having the ability to bounce back from repeated impacts, when compared to wood, concrete, and steel. When tested to ultimate load, multiple stage reinforced structural recycled HDPE plastic lumber piles and timbers absorb 15 times the energy of southern yellow pine. This means less damage, maintenance, and downtime, leading to a lower lifecycle cost.



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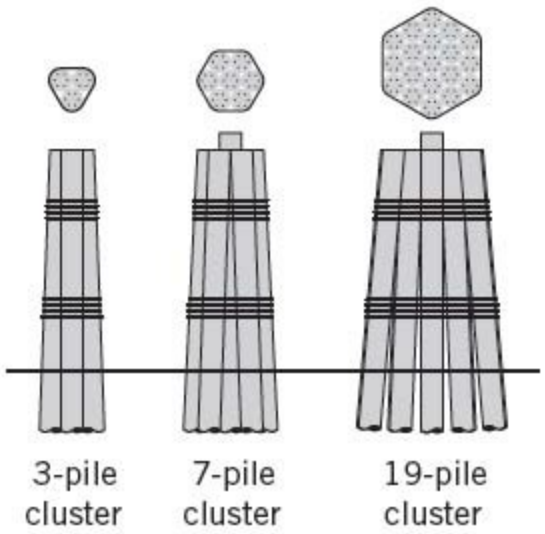
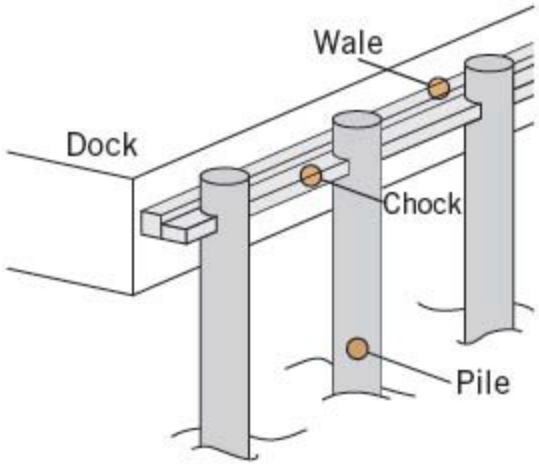
Dolphins



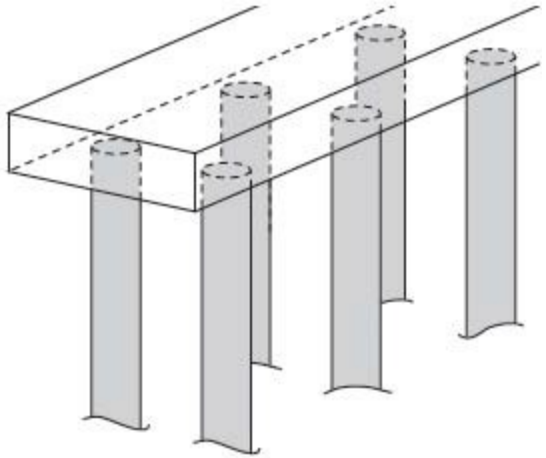
Dolphins, or groups of piles, are placed near piers and wharves to guide vessels into their moorings, to fend them away from structures, or to serve as mooring points. Compared with timber, considerably fewer piles are needed to absorb the same impact energy.

Fender Piling



Piles are used extensively as vertical fenders set out in front of a marine structure. During the berthing of a ship, fender piles act as a buffer to absorb and dissipate the impact energy of the ship. They also provide a barrier to prevent vessels from going underneath the pier.

Light Structural Piling



Piles are used to support the loads of light-duty piers and wharves. Structural piling generally uses bracing between piles to increase the strength and stiffness of the foundation for the structure.

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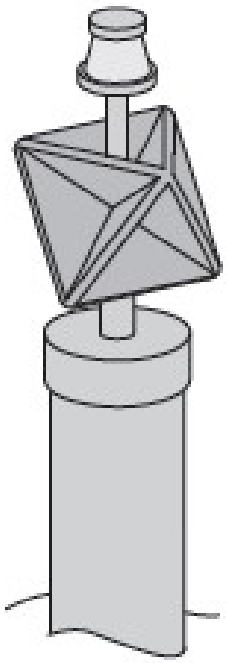
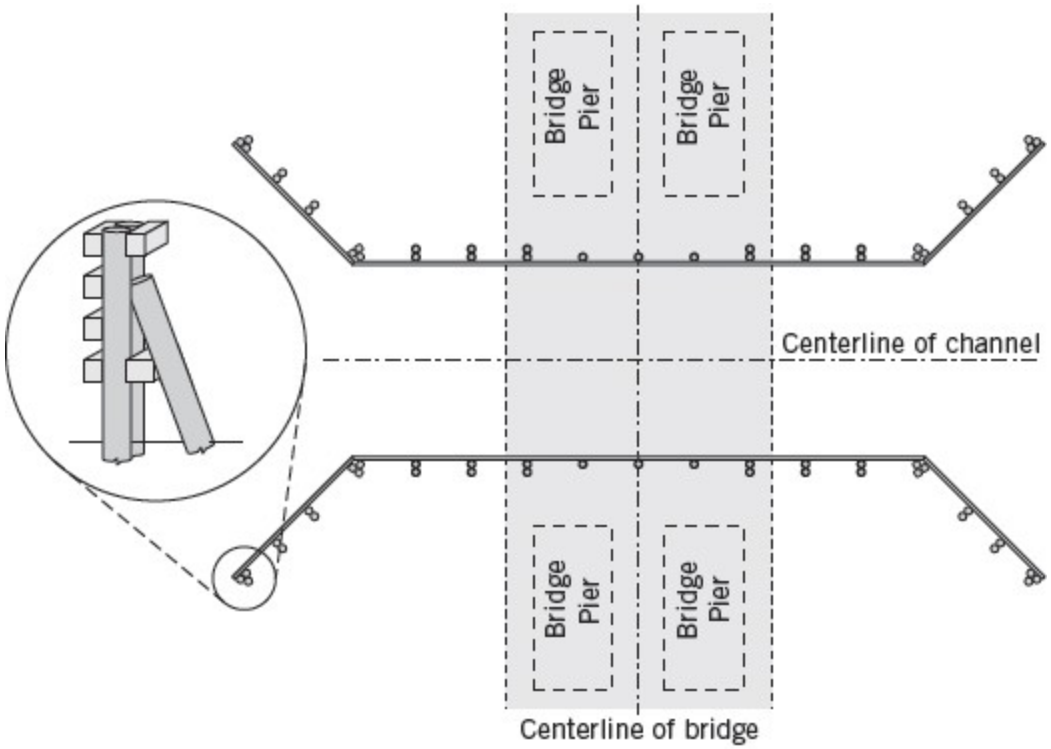
Navigational Aids



Single piles and dolphins are used to support lights, day beacons, fog signals, and radar beacons.

Bridge Pier Protection



Piles and dolphins are widely used to create protective structures for bridge piers, and to guide vessels into the channel and away from bridge supports. Three-pile clusters are used in impact zones, single piles in less vulnerable areas.