HULL CORE COMPARISON				
ТҮРЕ	EXAMPLES	WHO IS USING IT?	PROS	CONS
PLYWOOD	Brick cut 4" x 4" marine grade plywood	Hunter (deck)	Inexpensive, good for areas of high loading	Heavy, allows water to migrate
BALSA	Baltek SB 100, DIAB Probalsa, Nida-Core Balsalite	Catalina (deck), Tartan (deck)	Inexpensive, strong, stiff, resistant to heat and compression	Has the potential to absorb water, rot
STYRENE ACRYLONITRILE FOAM	SP Systems Corecell	Tartan, C&C, Morris, J-Boats	Tough foam with good mechanical properties, compatible with epoxy pre-preg	Higher cost

Sabre Yachts,

Hallberg-Rassy

Shannon Yachts

Racing trimarans,

America's Cup boats,

custom boats

High rigidity, heat resistant,

resists water absorption

Long history in hulls,

impact resistance, resists

fatigue, absorbs energy

Extremely light, strong,

potential for high elongation

CROSS-LINKED

LINEAR-LINKED

HONEYCOMB

PVC FOAM

PVC

DIAB Divinycell HT,

Klegecell TR, Airex C70

Airex R63

Nomex, Nidacore

Lower relative impact

resistance, some grades

not pre-preg friendly

Original linear PVC foam

can be softened by heat,

susceptible to styrene

Bonding area (in some

types) vulnerable to

fatigue, difficult to treat

edges, expensive