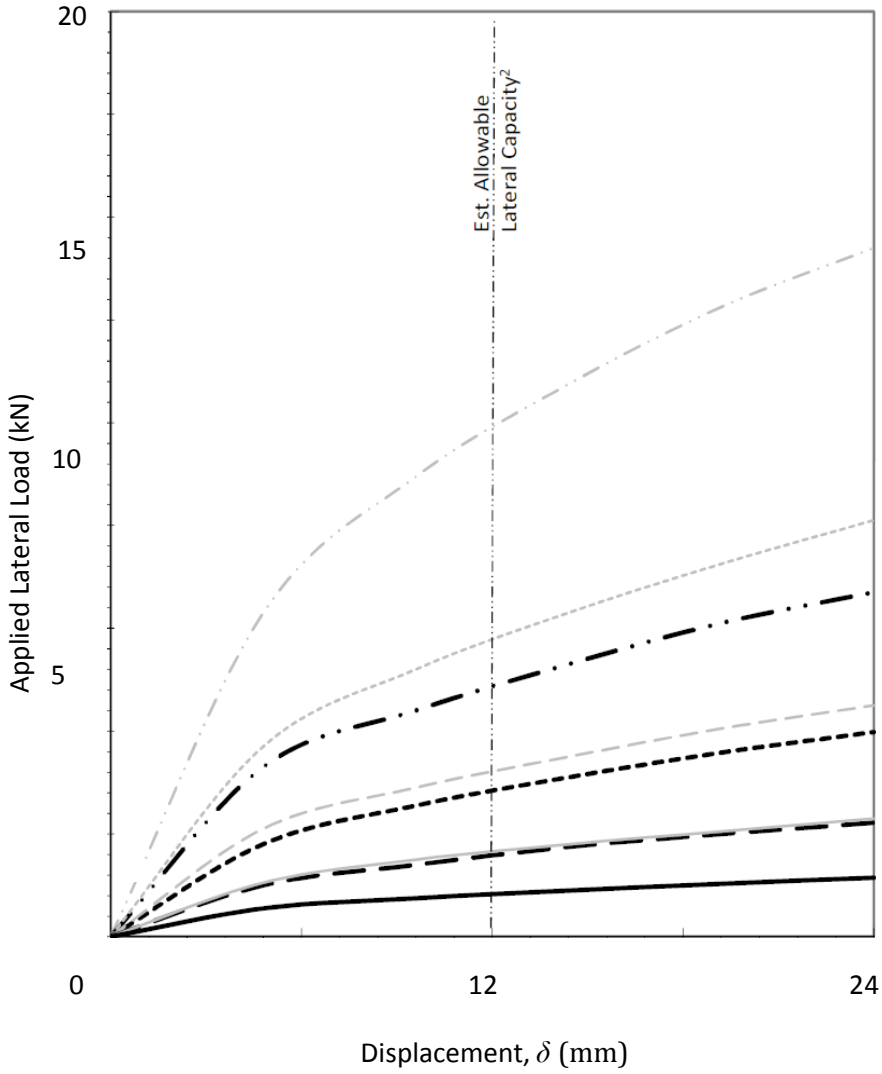
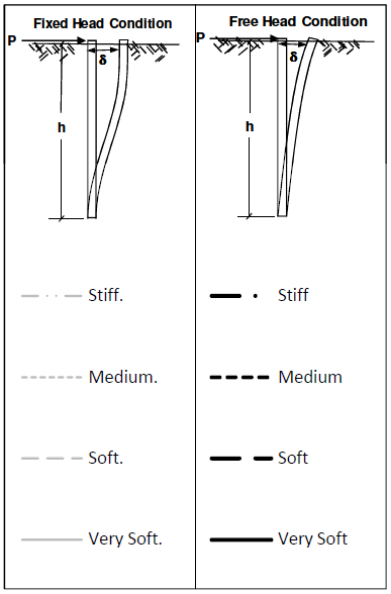
Katana Pile - 80kN
Lateral Performance in Clay

Pile Properties	
Pipe Diameter (mm)	76
Wall Thickness (mm)	4.0
Steel Grade (f's)	400
Pile Base Dia. (mm)	250

Soil Properties		
Soil Type	Angle of Friction (deg)	Cohesion Cu
Stiff	0	100
Medium	0	60
Soft	0	30



Minimum Pile Depth, h		
Soil Type	Fixed Head	Free Head
Stiff	40d	34d
Medium	30d	28d
Soft	28d	24d



These charts are for Katana Piles only as lateral performance is highly dependent on the connections rigidity and shaft properties. It is Katana's opinion that these graphs represent a reasonable approximation of the average performance of th Katana Pile in the indexed soils. Using the average performance is reasonable for multiple redundant structures (e.g. buildings, bridges, marina piers, etc.)

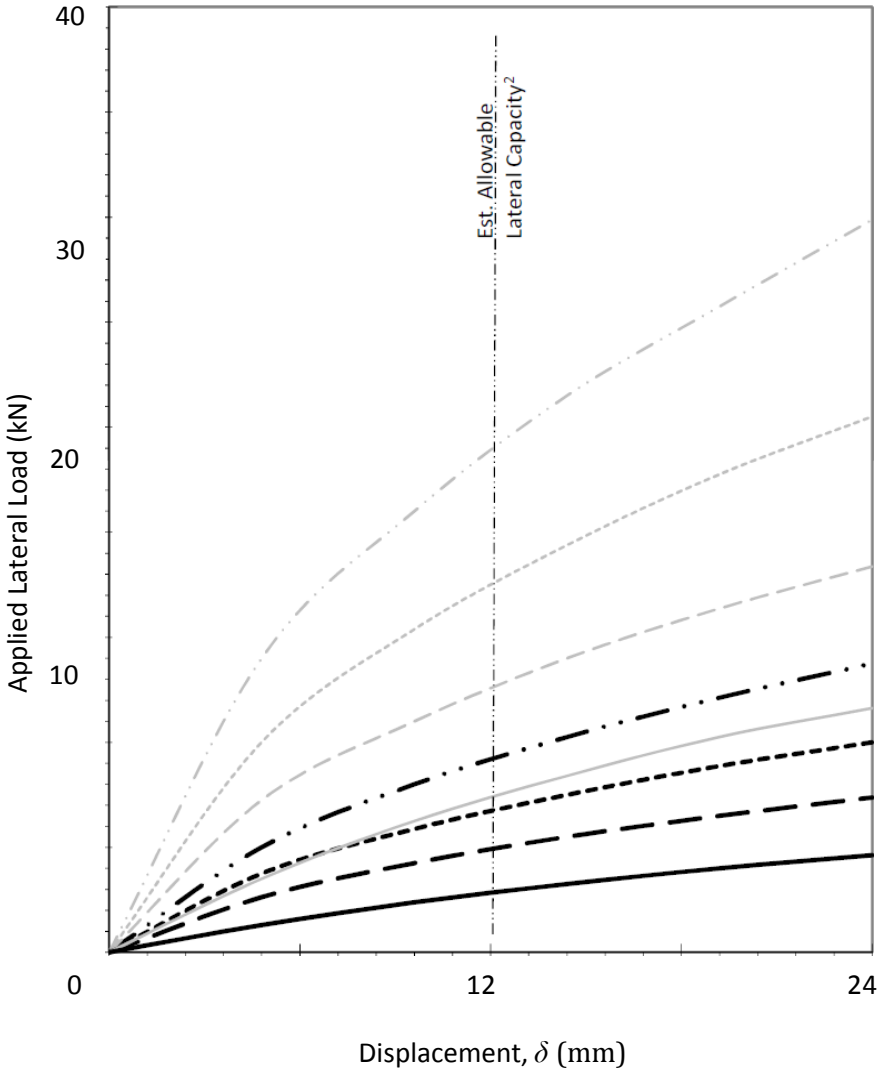
AS2159 - 2009, states that the allowable lateral capacity of a pile is half load causing a 25mm of displacement. Many practitioners take this to be nearly the same as the lateral load predicated at 12mm displacement. The graph presented here can be used to evaluate capacity for either condition as well as to judge lateral performance under other displacement criteria and codes. The design allowable displacement is the responsibility of the design engineer.

Katana Pile - 80kN

Lateral Performance in Sand

Pile Properties	
Pipe Diameter (mm)	76
Wall Thickness (mm)	4.0
Steel Grade (f's)	400
Pile Base Dia. (mm)	250

Soil Properties		
Soil Type	Angle of Friction (deg)	Cohesion Cu
Dense	25	0
Medium	29	0
Loose	33	0



Minimum Pile Depth, h		
Soil Type	Fixed Head	Free Head
Dense	40d	34d
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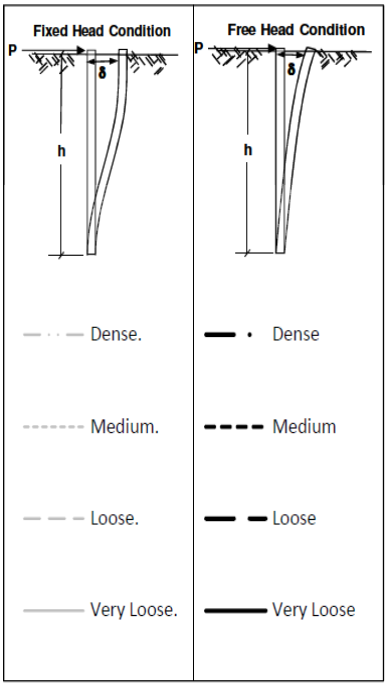

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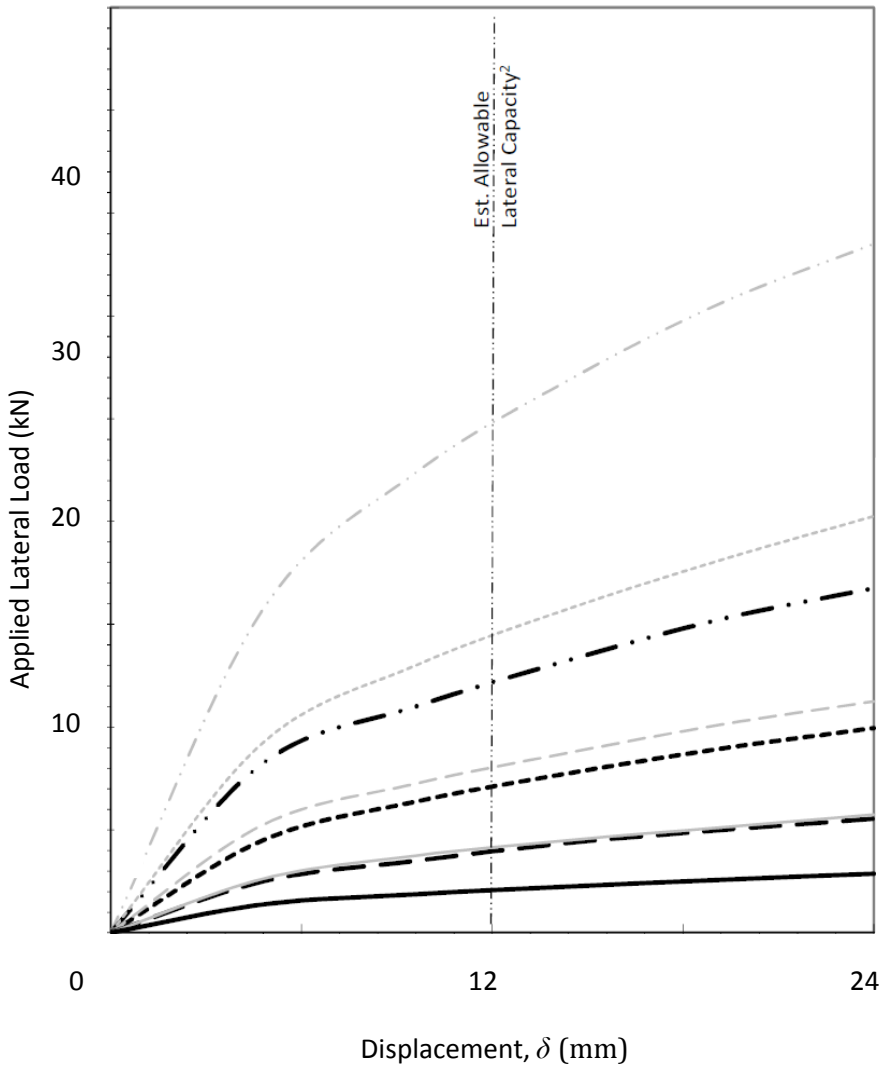
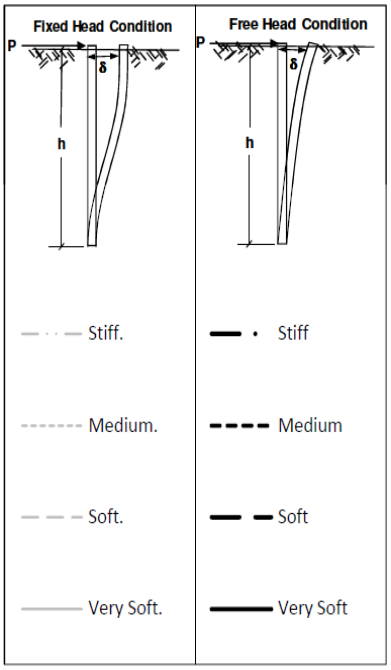
Katana Pile - 150kN
Lateral Performance in Clay

Pile Properties	
Pipe Diameter (mm)	89
Wall Thickness (mm)	4.0
Steel Grade (f's)	400
Pile Base Dia. (mm)	350

Soil Properties		
Soil Type	Angle of Friction (deg)	Cohesion Cu
Stiff	0	100
Medium	0	60
Soft	0	30



Minimum Pile Depth, h		
Soil Type	Fixed Head	Free Head
Stiff	40d	34d
Medium	30d	28d
Soft	28d	24d



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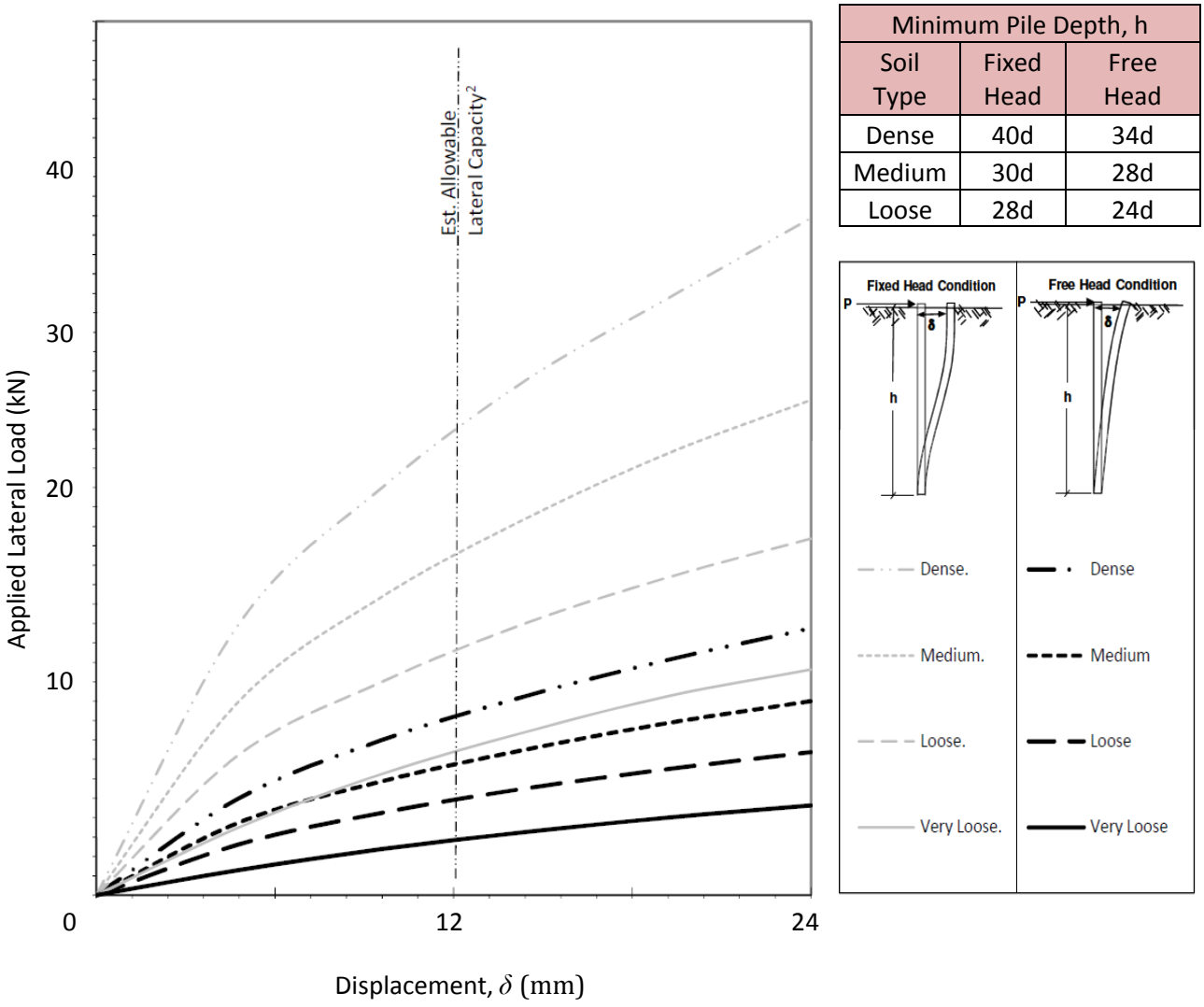

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