

TABLE 3.8 Suggested Allowable Stresses for Timber Crane Mats Derived using the NDS (AWC 2016) Methodology

<i>(a)</i> Values in U.S. Customary Units:					
Species	F_b , psi	F_v , psi	$F_{c\perp}$, psi	E , psi	Density, pcf
Common Species (U.S.)	1,400	200	750	1,200,000	50
Azobe (Ekki)	3,400	410	2,170	1,900,000	60
Dahoma (Dabema)	2,200	220	990	1,300,000	40
Eucalyptus	2,000	265	970	1,300,000	40
Greenheart	3,850	385	1,410	2,200,000	60
Mora	2,500	280	1,090	2,100,000	55
Tonka (Cumaru)	3,850	385	1,650	2,400,000	60
Wamara	4,300	430	2,495	2,200,000	60
<i>(b)</i> Values in SI Units:					
Species	F_b , kPa	F_v , kPa	$F_{c\perp}$, kPa	E , kPa	Density, kg/m ³
Common Species (U.S.)	9,650	1,380	5,150	8,300,000	800
Azobe (Ekki)	23,500	2,820	15,000	13,100,000	960
Dahoma (Debema)	15,300	1,530	6,800	9,000,000	640
Eucalyptus	13,600	1,800	6,600	8,970,000	640
Greenheart	26,500	2,650	9,800	15,200,000	960
Mora	17,300	1,940	7,400	14,500,000	880
Tonka (Cumaru)	26,500	2,650	11,400	16,600,000	960
Wamara	29,600	2,960	17,200	15,200,000	960