



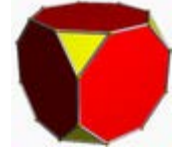
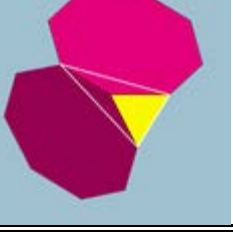
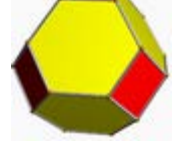
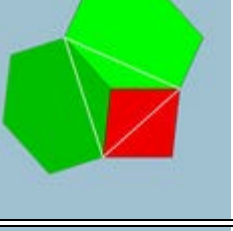
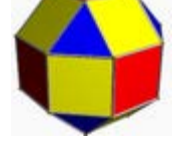
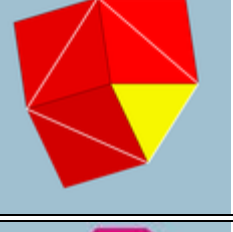
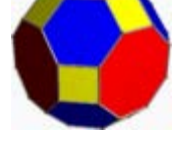
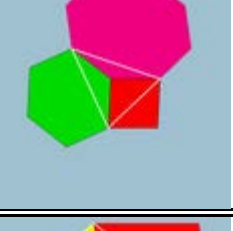
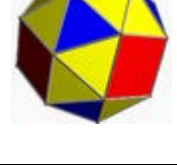
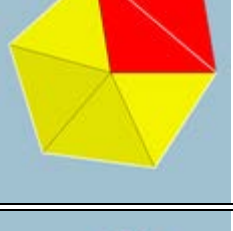

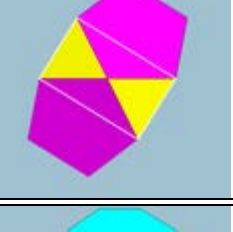
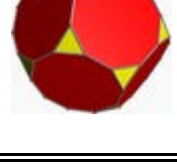
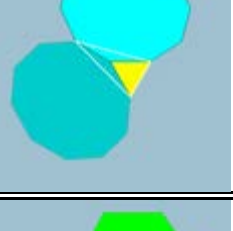

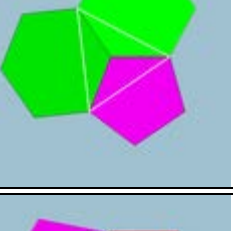
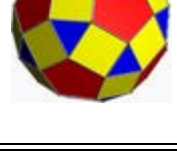
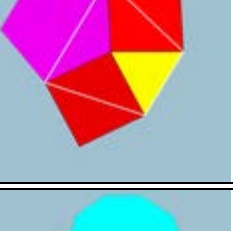

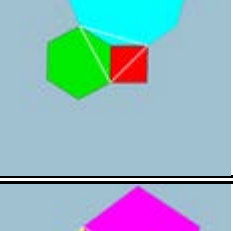
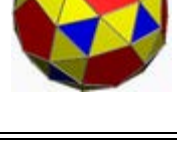
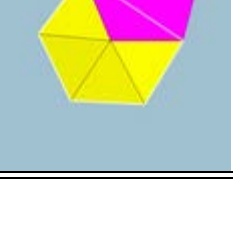


Archimedean solids with Jack Rafter Side Cut Angles & Hip Rafter Backing Angles

For Compound Miter Saw Settings (Dihedral Angle + Hip Rafter Backing Angle + Hip Rafter Backing Angle= 180°)

Enter Jack Rafter Side Cut Angle and Hip Rafter Backing Angle at this URL for compound Miter Saw Settings

http://www.sbebuilders.com/tools/geometry/tetrahedron_B_E.php

Name (Vertex configuration)	Solid	Edges	Vertex Figure	P2 Jack Rafter Side Cut Angles	Dihedral Angle Hip Rafter Backing Angle	Dihedral Angle Hip Rafter Backing Angle
truncated tetrahedron (3.6.6)		18		30,60,60	109.471220635° 30° - 15.7931690484° 60° - 54.7356103172°	70.528779366° 60° - 54.7356103172° 60° - 54.7356103172°
cuboctahedron (3.4.3.4)		24		30,45,30,45	125.264389683° 30° - 19.4712206345° 45° - 35.2643896828°	
truncated cube or truncated hexahedron (3.8.8)		36		30,67.5,67.5	125.264389683° 30° - 9.7356103172° 67.5° - 45.00°	90.00° 67.50° - 45.00° 67.50° - 45.00°
truncated octahedron (4.6.6)		36		45,60,60	125.264389683° 45° - 19.4712206345° 60° - 35.2643896828°	109.471220634° 60° - 35.2643896828° 60° - 35.2643896828°
rhombicuboctahedron or small rhombicuboctahedron (3.4.4.4)		48		30,45,45,45	144.735610317° 30° - 12.7643896827° 45° - 22.50°	135.00° 45° - 22.50° 45° - 22.50°
truncated cuboctahedron or great rhombicuboctahedron (4.6.8)		72		45,60,67.5	144.735610318° 45° - 12.7643896822° 60° - 22.50° 135.00° 45° - 12.7643896822° 67.5° - 32.2356103158°	125.264389684° 60° - 22.50° 67.5° - 32.2356103158°
snub cube or snub hexahedron or snub cuboctahedron (2 chiral forms) (3.3.3.3.4)		60		30,30,30,30,45	142.98343007° 30° - 13.3827061445° 45° - 23.6338637854°	153.234587711° 30° - 13.3827061445° 30° - 13.3827061445°
icosidodecahedron (3.5.3.5)		60		30,54,30,54	142.622631859° 30° - 10.8123169637° 54° - 26.565051177°	
truncated dodecahedron (3.10.10)		90		30,72,72	142.62263186° 30° - 5.6598937295° 72° - 31.7174744113°	116.565051177° 72° - 31.7174744113° 72° - 31.7174744113°
truncated icosahedron (5.6.6)		90		54,60,60	142.622631859° 54° - 16.4722106927° 60° - 20.9051574479°	138.189685104° 60° - 20.9051574479° 60° - 20.9051574479°
rhombicosidodecahedron or small rhombicosidodecahedron (3.4.5.4)		120		30,45,54,45	159.094842552° 30° - 7.6226318595° 45° - 13.2825255889°	148.282525587° 45° - 13.2825255889° 54° - 18.4349488239°
truncated icosidodecahedron or great rhombicosidodecahedron (4.6.10)		180		45,60,72	159.094842554° 45° - 7.6226318587° 60° - 13.2825255873° 148.282525592° 45° - 7.6226318587° 72° - 24.0948425498°	142.622631863° 60° - 13.2825255873° 72° - 24.0948425498°
snub dodecahedron or snub icosidodecahedron (2 chiral forms) (3.3.3.3.5)		150		30,30,30,30,54	152.930201256° 30° - 7.9122366852° 54° - 19.1575620591	164.17552663° 30° - 7.9122366852° 30° - 7.9122366852°