



DESIGNATION					PIN and BOX		PIN					BOX				
DIAMETER	WALL THICKNESS	WEIGHT	PRODUCT	DRIFT	ADD. LENGTH 1 RECUT	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max	Minimum Length	OUTSIDE DIAMETER min	OUTSIDE DIAMETER Recommended**	INSIDE DIAMETER min	INSIDE DIAMETER max	MINIMUM LENGTH	
in.	in.	lb/ft	---	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	
2.063	0.156	3.25	TSH WEDGE 511	1.657* (42.09 mm)	1.600* (40.64 mm)	2.063* (52.40 mm)	2.084* (52.92 mm)	1.676* (42.57 mm)	1.696* (43.08 mm)	3.200* (81.28 mm)	2.116* (53.75 mm)	2.136* (54.25 mm)	1.741* (44.22 mm)	1.761* (44.73 mm)	3.200* (81.28 mm)	
2.063	0.225	4.50	TSH WEDGE 511	1.519* (38.58 mm)	1.600* (40.64 mm)	2.063* (52.40 mm)	2.084* (52.92 mm)	1.538* (39.07 mm)	1.558* (39.57 mm)	3.200* (81.28 mm)	2.116* (53.75 mm)	2.136* (54.25 mm)	1.603* (40.72 mm)	1.623* (41.22 mm)	3.200* (81.28 mm)	
2.375	0.190	4.60	TSH WEDGE 511	1.901* (48.29 mm)	1.600* (40.64 mm)	2.375* (60.33 mm)	2.399* (60.93 mm)	1.920* (48.77 mm)	1.940* (49.28 mm)	3.200* (81.28 mm)	2.396* (60.86 mm)	2.416* (61.37 mm)	1.985* (50.42 mm)	2.005* (50.93 mm)	3.200* (81.28 mm)	
2.375	0.218	5.10	TSH WEDGE 511	1.845* (46.86 mm)	1.600* (40.64 mm)	2.375* (60.33 mm)	2.399* (60.93 mm)	1.877* (47.68 mm)	1.897* (48.18 mm)	3.200* (81.28 mm)	2.396* (60.86 mm)	2.416* (61.37 mm)	1.929* (49.00 mm)	1.949* (49.50 mm)	3.200* (81.28 mm)	
2.375	0.280	6.30	TSH WEDGE 511	1.721* (43.71 mm)	1.600* (40.64 mm)	2.375* (60.33 mm)	2.399* (60.93 mm)	1.740* (44.20 mm)	1.760* (44.70 mm)	4.150* (106.35 mm)	2.396* (60.86 mm)	2.416* (61.37 mm)	1.805* (45.85 mm)	1.825* (46.36 mm)	4.150* (106.35 mm)	
2.875	0.217	6.40	TSH WEDGE 511	2.347* (59.61 mm)	1.600* (40.64 mm)	2.875* (73.76 mm)	2.904* (73.76 mm)	2.367* (60.12 mm)	2.387* (60.63 mm)	3.200* (81.28 mm)	2.875* (73.03 mm)	2.904* (73.76 mm)	2.431* (61.75 mm)	2.451* (62.26 mm)	3.200* (81.28 mm)	
3.500	0.216	7.70	TSH WEDGE 511	2.943* (74.75 mm)	1.600* (40.64 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	2.963* (75.26 mm)	2.983* (75.77 mm)	3.650* (92.71 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	3.058* (77.67 mm)	3.078* (78.18 mm)	3.650* (92.71 mm)	
3.500	0.254	9.20	TSH WEDGE 511	2.867* (72.82 mm)	1.600* (40.64 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	2.887* (73.33 mm)	2.907* (73.84 mm)	3.650* (92.71 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	2.982* (75.74 mm)	3.002* (76.25 mm)	3.650* (92.71 mm)	
3.500	0.289	10.20	TSH WEDGE 511	2.797* (71.04 mm)	1.600* (40.64 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	2.817* (71.55 mm)	2.837* (72.06 mm)	3.650* (92.71 mm)	3.500* (88.90 mm)	3.535* (89.79 mm)	2.912* (73.96 mm)	2.932* (74.47 mm)	3.650* (92.71 mm)	
4.000	0.226	9.50	TSH WEDGE 511	3.423* (86.94 mm)	1.600* (40.64 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.444* (87.48 mm)	3.464* (87.99 mm)	3.650* (92.71 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.538* (89.87 mm)	3.558* (90.37 mm)	3.650* (92.71 mm)	
4.000	0.262	11.00	TSH WEDGE 511	3.351* (85.12 mm)	1.600* (40.64 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.372* (85.65 mm)	3.392* (86.16 mm)	3.650* (92.71 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.466* (88.04 mm)	3.486* (88.54 mm)	3.650* (92.71 mm)	
4.000	0.286	11.60	TSH WEDGE 511	3.303* (83.90 mm)	1.600* (40.64 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.324* (84.43 mm)	3.344* (84.94 mm)	3.650* (92.71 mm)	4.021* (102.13 mm)	4.041* (102.64 mm)	3.418* (86.82 mm)	3.438* (87.33 mm)	3.650* (92.71 mm)	
4.000	0.415	16.10	TSH WEDGE 511	3.045* (77.34 mm)	2.000* (50.80 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.067* (77.90 mm)	3.087* (78.41 mm)	4.650* (118.11 mm)	4.000* (101.60 mm)	4.040* (102.62 mm)	3.160* (80.26 mm)	3.180* (80.77 mm)	4.650* (118.11 mm)	
4.500	0.224	10.50	TSH WEDGE 511	3.927* (99.75 mm)	1.600* (40.64 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.949* (100.30 mm)	3.969* (100.81 mm)	3.650* (92.71 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	4.042* (102.67 mm)	4.062* (103.17 mm)	3.650* (92.71 mm)	
4.500	0.237	11.00	TSH WEDGE 511	3.901* (99.09 mm)	1.600* (40.64 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.924* (99.67 mm)	3.944* (100.18 mm)	3.650* (92.71 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	4.016* (102.01 mm)	4.036* (102.51 mm)	3.650* (92.71 mm)	
4.500	0.250	11.60	TSH WEDGE 511	3.875* (98.43 mm)	1.600* (40.64 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.898* (99.01 mm)	3.918* (99.52 mm)	3.650* (92.71 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.990* (101.35 mm)	4.010* (101.85 mm)	3.650* (92.71 mm)	
4.500	0.271	12.60	TSH WEDGE 511	3.833* (97.36 mm)	1.700* (43.18 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.855* (98.43 mm)	3.875* (98.94 mm)	3.600* (91.44 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.948* (100.28 mm)	3.968* (100.79 mm)	3.600* (91.44 mm)	
4.500	0.290	13.50	TSH WEDGE 511	3.795* (96.39 mm)	1.700* (43.18 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.817* (96.95 mm)	3.837* (97.46 mm)	3.600* (91.44 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.910* (99.31 mm)	3.930* (99.82 mm)	3.600* (91.44 mm)	
4.500	0.337	15.10	TSH WEDGE 511	3.701* (94.01 mm)	1.700* (43.18 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.723* (94.56 mm)	3.743* (95.07 mm)	3.950* (100.30 mm)	4.500* (114.30 mm)	4.545* (115.44 mm)	3.816* (96.93 mm)	3.836* (97.43 mm)	3.950* (100.30 mm)	
5.000	0.296	15.00	TSH WEDGE 511	4.283* (108.79 mm)	1.700* (43.18 mm)	5.000* (127.00 mm)	5.050* (128.27 mm)	4.307* (109.40 mm)	4.327* (109.91 mm)	3.600* (91.44 mm)	5.000* (127.00 mm)	5.050* (128.27 mm)	4.398* (111.71 mm)	4.418* (112.22 mm)	3.600* (91.44 mm)	
5.000	0.362	18.00	TSH WEDGE 511	4.151* (105.44 mm)	1.700* (43.18 mm)	5.000* (127.00 mm)	5.050* (128.27 mm)	4.175* (106.05 mm)	4.195* (106.55 mm)	4.650* (118.11 mm)	5.000* (127.00 mm)	5.050* (128.27 mm)	4.266* (108.36 mm)	4.286* (108.86 mm)	4.650* (118.11 mm)	
5.500	0.275	15.50	TSH WEDGE 511	4.825* (122.56 mm)	1.700* (43.18 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.850* (123.19 mm)	4.870* (123.70 mm)	3.600* (91.44 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.940* (125.48 mm)	4.960* (125.98 mm)	3.600* (91.44 mm)	
5.500	0.304	17.00	TSH WEDGE 511	4.767* (121.08 mm)	1.700* (43.18 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.792* (121.72 mm)	4.812* (122.22 mm)	3.600* (91.44 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.882* (124.00 mm)	4.902* (124.51 mm)	3.600* (91.44 mm)	
5.500	0.361	20.00	TSH WEDGE 511	4.653* (118.19 mm)	1.700* (43.18 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.678* (118.82 mm)	4.698* (119.33 mm)	4.150* (106.35 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.768* (121.11 mm)	4.788* (121.62 mm)	4.150* (106.35 mm)	
5.500	0.625	32.60	TSH WEDGE 511	4.125* (104.78 mm)	1.600* (40.64 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.150* (105.41 mm)	4.170* (105.92 mm)	5.700* (146.05 mm)	5.500* (139.70 mm)	5.555* (141.10 mm)	4.240* (107.70 mm)	4.260* (108.20 mm)	5.700* (146.05 mm)	
5.750	0.312	18.00	TSH WEDGE 511	5.001* (127.03 mm)	1.700* (43.18 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	5.026* (127.66 mm)	5.046* (128.17 mm)	3.600* (91.44 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	5.116* (129.95 mm)	5.136* (130.45 mm)	3.600* (91.44 mm)	
5.750	0.375	21.80	TSH WEDGE 511	4.875* (123.83 mm)	2.000* (50.80 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	4.900* (124.46 mm)	4.920* (124.97 mm)	4.650* (118.11 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	4.990* (126.75 mm)	5.010* (127.25 mm)	4.650* (118.11 mm)	
5.750	0.420	24.20	TSH WEDGE 511	4.785* (121.54 mm)	2.000* (50.80 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	4.810* (122.17 mm)	4.830* (122.68 mm)	4.650* (118.11 mm)	5.750* (146.05 mm)	5.808* (147.51 mm)	4.900* (124.46 mm)	4.920* (124.97 mm)	4.650* (118.11 mm)	
6.000	0.324	20.00	TSH WEDGE 511	5.227* (132.77 mm)	1.700* (43.18 mm)	6.000* (152.40 mm)	6.060* (153.92 mm)	5.253* (133.43 mm)	5.273* (133.93 mm)	3.950* (100.30 mm)	6.000* (152.40 mm)	6.060* (153.92 mm)	5.342* (135.69 mm)	5.362* (136.19 mm)	3.950* (100.30 mm)	
6.000	0.380	23.00	TSH WEDGE 511	5.115* (129.92 mm)	1.700* (43.18 mm)	6.000* (152.40 mm)	6.060* (153.92 mm)	5.141* (130.58 mm)	5.161* (131.09 mm)	4.650* (118.11 mm)	6.000* (152.40 mm)	6.060* (153.92 mm)	5.230* (132.84 mm)	5.250* (133.35 mm)	4.650* (118.11 mm)	
6.625	0.352	24.00	TSH WEDGE 511	5.796* (147.22 mm)	1.700* (43.18 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.822* (147.88 mm)	5.842* (148.39 mm)	3.600* (91.44 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.911* (150.14 mm)	5.931* (150.65 mm)	4.650* (118.11 mm)	
6.625	0.417	28.00	TSH WEDGE 511	5.666* (143.92 mm)	2.000* (50.80 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.692* (144.58 mm)	5.712* (145.08 mm)	4.650* (118.11 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.781* (146.84 mm)	5.801* (147.35 mm)	4.650* (118.11 mm)	
6.625	0.480	32.00	TSH WEDGE 511	5.550* (140.97 mm)	1.700* (43.18 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.576* (141.63 mm)	5.596* (142.14 mm)	4.650* (118.11 mm)	6.625* (168.28 mm)	6.691* (169.96 mm)	5.665* (143.89 mm)	5.685* (144.40 mm)	4.650* (118.11 mm)	
7.000	0.317	23.00	TSH WEDGE 511	6.250* (158.75 mm)	1.700* (43.18 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.276* (159.41 mm)	6.296* (159.92 mm)	3.950* (100.30 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.356* (161.44 mm)	6.376* (161.95 mm)	3.950* (100.30 mm)	
7.000	0.362	26.00	TSH WEDGE 511	6.151* (156.24 mm)	2.000* (50.80 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.177* (156.90 mm)	6.197* (157.40 mm)	4.650* (118.11 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.266* (159.16 mm)	6.286* (159.66 mm)	4.650* (118.11 mm)	
7.000	0.408	29.00	TSH WEDGE 511	6.059* (153.90 mm)	1.700* (43.18 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.085* (154.56 mm)	6.105* (155.07 mm)	4.600* (116.83 mm)	7.000* (177.80 mm)	7.070* (179.58 mm)	6.174* (156.82 mm)	6.194* (157.33 mm)	4.600* (116.83 mm)	
7.625	0.328	26.40	TSH WEDGE 511	6.844* (173.84 mm)	1											



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8.125	0.420	35.50	TSH WEDGE 511	7.160* (179.32 mm)	1.700* (43.18 mm)	8.125* (206.38 mm)	8.206* (208.44 mm)	7.193* (182.70 mm)	7.213* (183.21 mm)	4.600* (116.84 mm)	8.125* (206.38 mm)	8.206* (208.44 mm)	7.275* (184.79 mm)	7.295* (185.29 mm)	4.600* (116.84 mm)
8.125	0.470	39.50	TSH WEDGE 511	7.060* (179.32 mm)	2.100* (53.34 mm)	8.125* (206.38 mm)	8.206* (208.44 mm)	7.093* (180.16 mm)	7.113* (180.67 mm)	5.050* (128.27 mm)	8.125* (206.38 mm)	8.206* (208.44 mm)	7.175* (182.25 mm)	7.195* (182.75 mm)	5.050* (128.27 mm)
8.625	0.352	32.00	TSH WEDGE 511	7.875* (200.03 mm)	1.700* (43.18 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.908* (200.86 mm)	7.928* (201.37 mm)	4.150* (105.41 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.911* (200.94 mm)	7.931* (201.45 mm)	4.150* (105.41 mm)
8.625	0.400	36.00	TSH WEDGE 511	7.700* (195.58 mm)	1.700* (43.18 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.733* (196.42 mm)	7.753* (196.93 mm)	4.600* (116.84 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.815* (198.50 mm)	7.835* (199.01 mm)	4.600* (116.84 mm)
8.625	0.450	40.00	TSH WEDGE 511	7.625* (193.68 mm)	2.100* (53.34 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.658* (194.51 mm)	7.678* (195.02 mm)	5.050* (128.27 mm)	8.625* (219.08 mm)	8.711* (221.27 mm)	7.715* (195.96 mm)	7.735* (196.47 mm)	5.050* (128.27 mm)
9.000	0.425	40.00	TSH WEDGE 511	8.025* (203.84 mm)	1.700* (43.18 mm)	9.000* (230.89 mm)	9.090* (230.89 mm)	8.059* (204.70 mm)	8.079* (205.21 mm)	4.600* (116.84 mm)	9.000* (228.60 mm)	9.090* (230.89 mm)	8.140* (206.76 mm)	8.160* (207.26 mm)	4.600* (116.84 mm)
9.625	0.395	40.00	TSH WEDGE 511	8.750* (222.25 mm)	2.000* (50.80 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.784* (223.11 mm)	8.804* (223.62 mm)	4.650* (118.11 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.825* (224.16 mm)	8.845* (224.66 mm)	4.650* (118.11 mm)
9.625	0.435	43.50	TSH WEDGE 511	8.625* (219.08 mm)	1.700* (43.18 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.659* (219.94 mm)	8.679* (220.45 mm)	4.600* (116.84 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.745* (222.12 mm)	8.765* (222.63 mm)	4.600* (116.84 mm)
9.625	0.472	47.00	TSH WEDGE 511	8.525* (216.54 mm)	2.100* (53.34 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.559* (217.40 mm)	8.579* (217.91 mm)	5.050* (128.27 mm)	9.625* (244.48 mm)	9.721* (246.92 mm)	8.671* (220.24 mm)	8.691* (220.75 mm)	5.050* (128.27 mm)
10.750	0.400	45.50	TSH WEDGE 511	9.875* (250.83 mm)	2.000* (50.80 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.912* (251.76 mm)	9.932* (252.27 mm)	4.650* (118.11 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.940* (252.48 mm)	9.960* (252.98 mm)	4.650* (118.11 mm)
10.750	0.450	51.00	TSH WEDGE 511	9.694* (246.23 mm)	2.100* (53.34 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.731* (247.17 mm)	9.751* (247.68 mm)	5.050* (128.27 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.840* (249.94 mm)	9.860* (250.44 mm)	5.050* (128.27 mm)
10.750	0.495	55.50	TSH WEDGE 511	9.625* (244.48 mm)	2.100* (53.34 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.662* (245.41 mm)	9.682* (245.92 mm)	5.050* (128.27 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.750* (247.65 mm)	9.770* (248.16 mm)	5.050* (128.27 mm)
10.750	0.545	60.70	TSH WEDGE 511	9.504* (241.40 mm)	1.900* (48.26 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.541* (242.34 mm)	9.561* (242.85 mm)	5.000* (127.00 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.650* (245.11 mm)	9.670* (245.62 mm)	5.000* (127.00 mm)
10.750	0.595	65.70	TSH WEDGE 511	9.500* (241.30 mm)	1.900* (48.26 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.537* (242.24 mm)	9.557* (242.75 mm)	5.000* (127.00 mm)	10.750* (273.05 mm)	10.858* (275.78 mm)	9.550* (242.57 mm)	9.570* (243.08 mm)	5.000* (127.00 mm)
11.500	0.425	51.00	TSH WEDGE 511	10.625* (269.88 mm)	2.000* (50.80 mm)	11.500* (292.10 mm)	11.615* (295.02 mm)	10.650* (270.51 mm)	10.670* (271.02 mm)	4.650* (118.11 mm)	11.500* (292.10 mm)	11.615* (295.02 mm)	10.640* (270.26 mm)	10.660* (270.76 mm)	4.650* (118.11 mm)
11.750	0.489	60.00	TSH WEDGE 511	10.625* (269.88 mm)	2.400* (60.96 mm)	11.750* (298.45 mm)	11.868* (301.43 mm)	10.664* (270.87 mm)	10.684* (271.37 mm)	5.600* (141.78 mm)	11.750* (298.45 mm)	11.868* (301.43 mm)	10.762* (273.35 mm)	10.782* (273.86 mm)	5.600* (141.78 mm)
11.750	0.534	65.00	TSH WEDGE 511	10.625* (269.88 mm)	2.400* (60.96 mm)	11.750* (298.45 mm)	11.868* (301.43 mm)	10.664* (270.87 mm)	10.684* (271.37 mm)	5.600* (141.78 mm)	11.750* (298.45 mm)	11.868* (301.43 mm)	10.672* (271.07 mm)	10.692* (271.58 mm)	5.600* (141.78 mm)
11.875	0.470	58.80	TSH WEDGE 511	10.875* (276.23 mm)	1.900* (48.26 mm)	11.875* (301.63 mm)	11.994* (304.64 mm)	10.916* (277.27 mm)	10.936* (277.77 mm)	5.050* (128.27 mm)	11.875* (301.63 mm)	11.994* (304.64 mm)	10.925* (277.50 mm)	10.945* (278.00 mm)	5.050* (128.27 mm)
11.875	0.582	71.80	TSH WEDGE 511	10.625* (269.88 mm)	2.100* (53.34 mm)	11.875* (301.63 mm)	11.994* (304.64 mm)	10.665* (270.89 mm)	10.685* (271.40 mm)	5.900* (149.86 mm)	11.875* (301.63 mm)	11.994* (304.64 mm)	10.701* (271.81 mm)	10.721* (272.31 mm)	5.900* (149.86 mm)
16.000	0.495	84.00	TSH WEDGE 511	14.822* (376.48 mm)	1.900* (48.26 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.871* (377.72 mm)	14.891* (378.23 mm)	5.150* (131.26 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	15.000* (381.00 mm)	15.020* (381.51 mm)	5.150* (131.26 mm)
16.000	0.566	95.00	TSH WEDGE 511	14.750* (374.65 mm)	1.900* (48.26 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.797* (375.84 mm)	14.817* (376.35 mm)	5.900* (149.86 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.858* (377.39 mm)	14.878* (377.90 mm)	5.900* (149.86 mm)
16.000	0.575	96.00	TSH WEDGE 511	14.750* (374.65 mm)	1.900* (48.26 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.797* (375.84 mm)	14.817* (376.35 mm)	5.900* (149.86 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.840* (376.94 mm)	14.860* (377.45 mm)	5.900* (149.86 mm)
16.000	0.625	102.90	TSH WEDGE 511	14.562* (369.87 mm)	2.300* (58.42 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.611* (371.12 mm)	14.631* (371.63 mm)	6.550* (166.37 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.740* (374.40 mm)	14.760* (374.90 mm)	6.550* (166.37 mm)
16.000	0.656	109.00	TSH WEDGE 511	14.500* (368.30 mm)	2.300* (58.42 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.549* (369.54 mm)	14.569* (370.05 mm)	6.550* (166.37 mm)	16.000* (406.40 mm)	16.160* (410.46 mm)	14.678* (372.82 mm)	14.698* (373.33 mm)	6.550* (166.37 mm)
18.000	0.562	105.00	TSH WEDGE 511	16.688* (423.88 mm)	2.400* (60.96 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.741* (425.22 mm)	16.761* (425.73 mm)	5.600* (141.78 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.866* (428.40 mm)	16.886* (428.90 mm)	5.600* (141.78 mm)
18.000	0.625	117.00	TSH WEDGE 511	16.562* (420.67 mm)	2.300* (58.42 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.615* (422.02 mm)	16.635* (422.53 mm)	6.550* (166.37 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.740* (425.20 mm)	16.760* (425.70 mm)	6.550* (166.37 mm)
18.000	0.640	119.00	TSH WEDGE 511	16.532* (419.91 mm)	2.300* (58.42 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.585* (421.26 mm)	16.605* (421.77 mm)	6.550* (166.37 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.710* (424.43 mm)	16.730* (424.94 mm)	6.550* (166.37 mm)
18.000	0.677	126.00	TSH WEDGE 511	16.500* (419.10 mm)	2.300* (58.42 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.553* (420.45 mm)	16.573* (420.95 mm)	6.550* (166.37 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.636* (422.55 mm)	16.656* (423.06 mm)	6.550* (166.37 mm)
18.000	0.688	128.00	TSH WEDGE 511	16.500* (419.10 mm)	2.300* (58.42 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.553* (420.45 mm)	16.573* (420.95 mm)	6.550* (166.37 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.614* (422.00 mm)	16.634* (422.50 mm)	6.550* (166.37 mm)
18.000	0.875	162.00	TSH WEDGE 511	16.062* (407.97 mm)	2.000* (50.80 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.115* (409.32 mm)	16.135* (409.83 mm)	6.800* (172.72 mm)	18.000* (457.20 mm)	18.180* (461.77 mm)	16.240* (412.50 mm)	16.260* (413.00 mm)	6.800* (172.72 mm)
18.625	0.625	123.40	TSH WEDGE 511	17.187* (436.55 mm)	2.300* (58.42 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.244* (438.00 mm)	17.264* (438.51 mm)	6.550* (166.37 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.365* (441.07 mm)	17.385* (441.58 mm)	6.550* (166.37 mm)
18.625	0.693	136.00	TSH WEDGE 511	17.051* (433.10 mm)	2.300* (58.42 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.108* (434.54 mm)	17.128* (435.05 mm)	6.550* (166.37 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.229* (437.62 mm)	17.249* (438.12 mm)	6.550* (166.37 mm)
18.625	0.720	139.00	TSH WEDGE 511	16.997* (431.72 mm)	2.300* (58.42 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.054* (433.17 mm)	17.074* (433.68 mm)	6.550* (166.37 mm)	18.625* (473.08 mm)	18.811* (477.81 mm)	17.175* (436.25 mm)	17.195* (436.75 mm)	6.550* (166.37 mm)

BLANK OD and ID: The nominal blank ODs and IDs in the Pin Diameters and Box Diameters columns are finished product dimensions.

\*\* For OEM Max Outside Diameter is NOT Restricted

When this minimum material is supplied, the blank OD and the blank ID must be true to each other within 0.010" TIR (Total Indicator Reading).

na: Not Applicable.

Blank spaces indicate product not currently available.

Contact Tenaris Manufacturing Services at [licensees@oilfield.tenaris.com](mailto:licensees@oilfield.tenaris.com) for details.

These Blanking Dimensions are NOT applicable For Handling & lifting plug, HydroTest Caps & HydroTest Plugs.

Yellow - Shaded corresponds to modified from previous document revision.