

## Tree Protection and Structural Root Zone Radii for Trees

<i>Circumference</i>	<b>Diameter</b>	<b>TPZ radius</b>	<b>SRZ radius</b>	<b>TPZ m<sup>2</sup> area</b>	<b>10% encroachment distance</b>
20cms to 51cms	<b>6.36cms to 16.23cms</b>	<b>2m</b>	<b>1.5m</b>	12.6m <sup>2</sup>	<b>1.4m</b>
52cms to 53cms	<b>16.54cms to 16.86cms</b>	<b>2m</b>	<b>1.6m</b>	12.6m <sup>2</sup>	<b>1.4m</b>
54cms to 56cms	<b>17.18cms to 17.82cms</b>	<b>2.1m</b>	<b>1.6</b>	13.9m <sup>2</sup>	<b>1.4m</b>
57cms to 58cms	<b>18.14cms to 18.45cms</b>	<b>2.2m</b>	<b>1.6m</b>	15.2m <sup>2</sup>	<b>1.5m</b>
59cms	<b>18.77cms</b>	<b>2.3m</b>	<b>1.6m</b>	16.6m <sup>2</sup>	<b>1.6m</b>
60cms to 61cms	<b>19.09cms to 19.41cms</b>	<b>2.3m</b>	<b>1.7m</b>	16.6m <sup>2</sup>	<b>1.6m</b>
62cms to 64cms	<b>19.73cms to 20.36cms</b>	<b>2.4m</b>	<b>1.7m</b>	18.1m <sup>2</sup>	<b>1.7m</b>
65cms to 66cms	<b>20.68cms to 21cms</b>	<b>2.5m</b>	<b>1.7m</b>	19.6m <sup>2</sup>	<b>1.7m</b>
67cms to 68cms	<b>21.32cms to 21.64cms</b>	<b>2.6m</b>	<b>1.7m</b>	21.2m <sup>2</sup>	<b>1.8m</b>
69cms	<b>21.96cms</b>	<b>2.6m</b>	<b>1.8m</b>	21.2m <sup>2</sup>	<b>1.8m</b>
70cms to 72cms	<b>22.27cms to 22.91cms</b>	<b>2.7m</b>	<b>1.8m</b>	22.9m <sup>2</sup>	<b>1.9m</b>
73cms to 74cms	<b>23.23cms to 23.55cms</b>	<b>2.8m</b>	<b>1.8m</b>	24.6m <sup>2</sup>	<b>1.9m</b>
75cms to 77cms	<b>23.87cms to 24.5cms</b>	<b>2.9m</b>	<b>1.8m</b>	26.4m <sup>2</sup>	<b>2m</b>
78cms	<b>24.82cms</b>	<b>3m</b>	<b>1.8m</b>	28.3m <sup>2</sup>	<b>2.1m</b>
79cms	<b>25.14cms</b>	<b>3m</b>	<b>1.9m</b>	28.3m <sup>2</sup>	<b>2.1m</b>
80cms to 82cms	<b>25.46cms to 26.09cms</b>	<b>3.1m</b>	<b>1.9m</b>	30.2m <sup>2</sup>	<b>2.1m</b>
83cms to 85cms	<b>26.41cms to 27.05cms</b>	<b>3.2m</b>	<b>1.9m</b>	32.2m <sup>2</sup>	<b>2.2m</b>
86cms to 87cms	<b>27.37cms to 27.68cms</b>	<b>3.3m</b>	<b>1.9m</b>	34.2m <sup>2</sup>	<b>2.3m</b>
88cms to 89cms	<b>28cms to 28.32cms</b>	<b>3.4m</b>	<b>1.9m</b>	36.3m <sup>2</sup>	<b>2.3m</b>
90cms	<b>28.64cms</b>	<b>3.4m</b>	<b>2m</b>	36.3m <sup>2</sup>	<b>2.3m</b>
91cms to 92cms	<b>28.96cms to 29.28cms</b>	<b>3.5m</b>	<b>2m</b>	38.5m <sup>2</sup>	<b>2.4m</b>
93cms to 95cms	<b>29.59cms to 30.23cms</b>	<b>3.6m</b>	<b>2m</b>	40.7m <sup>2</sup>	<b>2.5m</b>
96cms to 98cms	<b>30.55cms to 31.19cms</b>	<b>3.7m</b>	<b>2m</b>	43m <sup>2</sup>	<b>2.5m</b>
99cms to 100cms	<b>31.5cms to 31.82cms</b>	<b>3.8m</b>	<b>2m</b>	45.4m <sup>2</sup>	<b>2.6m</b>
101cms to 103cms	<b>32.14cms to 32.78cms</b>	<b>3.9m</b>	<b>2.1m</b>	47.8m <sup>2</sup>	<b>2.7m</b>
104cms to	<b>33.09cms to</b>	<b>4m</b>	<b>2.1m</b>	50.3m <sup>2</sup>	<b>2.8m</b>

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106cms	33.73cms				
107cms to 108cms	34.05cms to 34.37cms	4.1m	2.1m	52.8m <sup>2</sup>	2.8m
109cms to 111cms	34.69cms to 35.32cms	4.2m	2.1m	55.4m <sup>2</sup>	2.9m
112cms	35.64cms	4.3m	2.1m	58.1m <sup>2</sup>	3m
113cms	35.96cms	4.3m	2.2m	58.1m <sup>2</sup>	3m
114cms to 116cms	36.28cms to 36.91cms	4.4m	2.2m	60.8m <sup>2</sup>	3m
117cms to 119cms	37.23cms to 37.87cms	4.5m	2.2m	63.6m <sup>2</sup>	3.1m
120cms to 121cms	38.19cms to 38.51cms	4.6m	2.2m	66.5m <sup>2</sup>	3.2m
122cms to 124cms	38.82cms to 39.46cms	4.7m	2.2m	69.4m <sup>2</sup>	3.2m
125cms	39.78cms	4.8m	2.2m	72.4m <sup>2</sup>	3.3m
126cms	40.10cms	4.8m	2.3m	72.4m <sup>2</sup>	3.3m
127cms to 129cms	40.42cms to 41.05cms	4.9m	2.3m	75.4m <sup>2</sup>	3.4m
130cms to 132cms	41.37cms to 42.01cms	5m	2.3m	78.5m <sup>2</sup>	3.4m
133cms to 134cms	42.32cms to 42.64cms	5.1m	2.3m	81.7m <sup>2</sup>	3.5m
135cms to 137cms	42.96cms to 43.6cms	5.2m	2.3m	84.9m <sup>2</sup>	3.6m
138cms to 139cms	43.92 to 44.23cms	5.3m	2.3m	88.2m <sup>2</sup>	3.6m
140cms	44.55cms	5.3m	2.4m	88.2m <sup>2</sup>	3.6m
141cms to 142cms	44.87cms to 45.19cms	5.4m	2.4m	91.6m <sup>2</sup>	3.7m
143cms to 145cms	45.51cms to 46.14cms	5.4m	2.4m	95m <sup>2</sup>	3.8m
146cms to 147cms	46.46cms to 46.78cms	5.6m	2.4m	98.5m <sup>2</sup>	3.9m
148cms to 150cms	47.10cms to 47.74cms	5.7m	2.4m	102.10m <sup>2</sup>	3.9m
151cms to 153cms	48.05cms to 48.69cms	5.8m	2.4m	105.7m <sup>2</sup>	4m
154cms to 155cms	49.01cms to 49.33cms	5.9m	2.5m	109.4m <sup>2</sup>	4.1m
156cms to 158cms	49.64cms to 50.28cms	6m	2.5m	113.1m <sup>2</sup>	4.1m
159cms to 161cms	50.6cms to 51.24cms	6.1m	2.5m	116.9m <sup>2</sup>	4.2m
162cms to 163cms	51.55cms to 51.87cms	6.2m	2.5m	120.8m <sup>2</sup>	4.3m

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164cms to 166cms	52.19cms to 52.83cms	6.3m	2.5m	124.7m <sup>2</sup>	4.3m
167cms to 168cms	53.15cms to 53.46cms	6.4m	2.5m	128.7m <sup>2</sup>	4.4m
169cms to 171cms	53.78cms to 54.42cms	6.5m	2.6m	132.7m <sup>2</sup>	4.5m
172cms to 174cms	54.74cms to 55.37cms	6.6m	2.6m	136.8m <sup>2</sup>	4.5m
175cms to 176cms	55.69cms to 56.01cms	6.7m	2.6m	141m <sup>2</sup>	4.6m
177cms to 179cms	56.33cms to 56.97cms	6.8m	2.6m	145.3m <sup>2</sup>	4.7m
180cms to 181cms	57.28cms to 57.6cms	6.9m	2.6m	149.6m <sup>2</sup>	4.7m
182cms to 184cms	57.92cms to 58.56cms	7m	2.6m	153.9m <sup>2</sup>	4.8m
185cms	58.87cms	7.1m	2.6m	158.4m <sup>2</sup>	4.9m
186cms to 187cms	59.19cms to 59.51cms	7.1m	2.7m	158.4m <sup>2</sup>	4.9m
189cms	60.15cms	7.2m	2.7m	162.9m <sup>2</sup>	5m
190cms to 192cms	60.47cms to 61.10cms	7.3m	2.7m	167.4m <sup>2</sup>	5m
193cms to 195cms	61.42cms to 62.06cms	7.4m	2.7m	172m <sup>2</sup>	5.1m
196cms to 197cms	62.38cms to 62.69cms	7.5m	2.7m	176.7m <sup>2</sup>	5.2m
198cms to 200cms	63.01cms to 63.65cms	7.6m	2.7m	181.5m <sup>2</sup>	5.2m
201cms to 202cms	63.97cms to 64.29cms	7.7m	2.7m	186.3m <sup>2</sup>	5.3m
203cms to 205cms	64.60cms to 65.24cms	7.8m	2.8m	191.1m <sup>2</sup>	5.4m
206cms to 208cms	65.56cms to 66.19cms	7.9m	2.8m	196.1m <sup>2</sup>	5.4m
209cms to 210cms	66.51cms to 66.83cms	8m	2.8m	201.1m <sup>2</sup>	5.5m
211cms to 213cms	67.15cms to 67.79cms	8.1m	2.8m	206.1m <sup>2</sup>	5.6m
214cms to 216cms	68.10cms to 68.74cms	8.2m	2.8m	211.2m <sup>2</sup>	5.6m
217cms to 218cms	69.06cms to 69.38cms	8.3m	2.8m	216.4m <sup>2</sup>	5.7m
219cms to 220cms	69.70cms to 70.01cms	8.4m	2.8m	221.7m <sup>2</sup>	5.8m
221cms	70.33cms	8.4m	2.9m	221.7m <sup>2</sup>	5.8m
222cms to	70.65cms to	8.5m	2.9m	227m <sup>2</sup>	5.8m

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223cms	<b>70.97cms</b>				
224cms to 226cms	<b>71.29cms to 71.92cms</b>	<b>8.6m</b>	<b>2.9m</b>	232.4m <sup>2</sup>	<b>5.9m</b>
227cms to 229cms	<b>72.24cms to 72.88cms</b>	<b>8.7m</b>	<b>2.9m</b>	237.8m <sup>2</sup>	<b>6m</b>
230cms to 231cms	<b>73.20cms to 73.52cms</b>	<b>8.8m</b>	<b>2.9m</b>	243.3m <sup>2</sup>	<b>6.1m</b>
232cms to 234cms	<b>73.83cms to 74.47cms</b>	<b>8.9m</b>	<b>2.9m</b>	248.8m <sup>2</sup>	<b>6.1m</b>
235cms to 236cms	<b>74.79cms to 75.11cms</b>	<b>9m</b>	<b>2.9m</b>	254.5m <sup>2</sup>	<b>6.2m</b>
237cms to 238cms	<b>75.42cms to 75.74cms</b>	<b>9.1m</b>	<b>2.9m</b>	260.2m <sup>2</sup>	<b>6.3m</b>
239cms	<b>76.06cms</b>	<b>9.1m</b>	<b>3m</b>	260.2m <sup>2</sup>	<b>6.3m</b>
240cms to 242cms	<b>76.38cms to 77.02cms</b>	<b>9.2m</b>	<b>3m</b>	265.9m <sup>2</sup>	<b>6.3m</b>
243cms to 244cms	<b>77.33cms to 77.65cms</b>	<b>9.3m</b>	<b>3m</b>	271.7m <sup>2</sup>	<b>6.4m</b>
245cms to 247cms	<b>77.97cms to 78.61cms</b>	<b>9.4m</b>	<b>3m</b>	277.6m <sup>2</sup>	<b>6.5m</b>
248cms to 250cms	<b>78.93cms to 79.56cms</b>	<b>9.5m</b>	<b>3m</b>	283.5m <sup>2</sup>	<b>6.5m</b>
251cms to 252cms	<b>79.88cms to 80.2cms</b>	<b>9.6m</b>	<b>3m</b>	289.5m <sup>2</sup>	<b>6.6m</b>
253cms to 255cms	<b>80.52cms to 81.15cms</b>	<b>9.7m</b>	<b>3m</b>	295.6m <sup>2</sup>	<b>6.7m</b>
256cms to 257cms	<b>81.47cms to 81.79cms</b>	<b>9.8m</b>	<b>3m</b>	301.7m <sup>2</sup>	<b>6.7m</b>
258cms	<b>82.11cms</b>	<b>9.9m</b>	<b>3m</b>	307.9m <sup>2</sup>	<b>6.8m</b>
259cms to 260cms	<b>82.43cms to 82.74cms</b>	<b>9.9m</b>	<b>3.1m</b>	307.9m <sup>2</sup>	<b>6.8m</b>
261cms to 263cms	<b>83.06cms to 83.70cms</b>	<b>10m</b>	<b>3.1m</b>	314.2m <sup>2</sup>	<b>6.9m</b>
264cms to 265cms	<b>84.02cms to 84.34cms</b>	<b>10.1m</b>	<b>3.1m</b>	320.5m <sup>2</sup>	<b>6.9m</b>
266cms to 268cms	<b>84.65cms to 85.29cms</b>	<b>10.2m</b>	<b>3.1m</b>	326.9m <sup>2</sup>	<b>7m</b>
269cms to 270cms	<b>85.61cms to 85.93cms</b>	<b>10.3m</b>	<b>3.1m</b>	333.3m <sup>2</sup>	<b>7.1m</b>
271cms to 273cms	<b>86.25cms to 86.88cms</b>	<b>10.4m</b>	<b>3.1m</b>	339.8m <sup>2</sup>	<b>7.2m</b>
274cms to 276cms	<b>87.20cms to 87.82cms</b>	<b>10.5m</b>	<b>3.1m</b>	346.4m <sup>2</sup>	<b>7.2m</b>
277cms to 278cms	<b>88.16cms to 88.47cms</b>	<b>10.6m</b>	<b>3.1m</b>	353m <sup>2</sup>	<b>7.3m</b>
279cms	<b>88.79cms</b>	<b>10.7m</b>	<b>3.1m</b>	359.7m <sup>2</sup>	<b>7.4m</b>

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280cms to 281cms	<b>89.11cms to 89.43cms</b>	<b>10.7m</b>	<b>3.2m</b>	359.7m <sup>2</sup>	<b>7.4m</b>
282cms to 284cms	<b>89.75cms to 90.38cms</b>	<b>10.8m</b>	<b>3.2m</b>	3664m <sup>2</sup>	<b>7.4m</b>
285cms to 286cms	<b>90.7cms to 91.02cms</b>	<b>10.9m</b>	<b>3.2m</b>	373.3m <sup>2</sup>	<b>7.5m</b>
287cms to 289cms	<b>91.34cms to 91.97cms</b>	<b>11m</b>	<b>3.2m</b>	380.1m <sup>2</sup>	<b>7.6m</b>
290cms to 291cms	<b>92.29cms to 92.61cms</b>	<b>11.1m</b>	<b>3.2m</b>	387.1m <sup>2</sup>	<b>7.6m</b>
292cm to 294cms	<b>92.93cms to 93.57cms</b>	<b>11.2m</b>	<b>3.2m</b>	394.1m <sup>2</sup>	<b>7.7m</b>
295cms to 297cms	<b>93.88cms to 94.52cms</b>	<b>11.3m</b>	<b>3.2m</b>	401.1m <sup>2</sup>	<b>7.8m</b>
298cms to 299cms	<b>94.84cms to 95.16cms</b>	<b>11.4m</b>	<b>3.2m</b>	408.3m <sup>2</sup>	<b>7.8m</b>
300cms	<b>95.48cms</b>	<b>11.5m</b>	<b>3.2m</b>	415.5m <sup>2</sup>	<b>7.9m</b>
301cms to 302cms	<b>95.79cms to 96.11cms</b>	<b>11.5m</b>	<b>3.3m</b>	415.5m <sup>2</sup>	<b>7.9m</b>
303cms to 305cms	<b>96.43cms to 97.07cms</b>	<b>11.6m</b>	<b>3.3m</b>	422.7m <sup>2</sup>	<b>8m</b>
306cms to 307cms	<b>97.39cms to 97.70cms</b>	<b>11.7m</b>	<b>3.3m</b>	430.1m <sup>2</sup>	<b>8m</b>
308cms to 310cms	<b>98.02cms to 98.66cms</b>	<b>11.8m</b>	<b>3.3m</b>	437.4m <sup>2</sup>	<b>8.1m</b>
311cms to 312cms	<b>98.98cms to 99.29cms</b>	<b>11.9m</b>	<b>3.3m</b>	444.9m <sup>2</sup>	<b>8.2m</b>
313cms to 315cms	<b>99.61cms to 100.25cms</b>	<b>12m</b>	<b>3.3m</b>	452.4m <sup>2</sup>	<b>8.3m</b>
316cms to 318cms	<b>100.57cms to 101.20cms</b>	<b>12.1m</b>	<b>3.3m</b>	460m <sup>2</sup>	<b>8.3m</b>
319cms to 320cm s	<b>101.52cms to 101.84cms</b>	<b>12.2m</b>	<b>3.3m</b>	467.6m <sup>2</sup>	<b>8.4m</b>
321cms to 323cms	<b>102.16cms to 102.80cms</b>	<b>12.3m</b>	<b>3.3m</b>	475.3m <sup>2</sup>	<b>8.5m</b>
324cms to 325cms	<b>103.11cms to 103.43cms</b>	<b>12.4m</b>	<b>3.4m</b>	483.1m <sup>2</sup>	<b>8.5m</b>
326cms to 328cm s	<b>103.75cms to 104.39cms</b>	<b>12.5m</b>	<b>3.4m</b>	490.9m <sup>2</sup>	<b>8.6m</b>
329cms to 331cms	<b>104.71cms to</b>	<b>12.6m</b>	<b>3.4m</b>	498.8m <sup>2</sup>	<b>8.7m</b>

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	<b>105.34cms</b>				
332cms to 333cms	<b>105.66cms to 105.98cms</b>	<b>12.7m</b>	<b>3.4m</b>	506.7m <sup>2</sup>	<b>8.7m</b>
334cms to 336cms	<b>106.30cms to 106.93cms</b>	<b>12.8m</b>	<b>3.4m</b>	514.7m <sup>2</sup>	<b>8.8m</b>
337cms to 339cms	<b>107.25cms to 107.89cms</b>	<b>12.9m</b>	<b>3.4m</b>	522.8m <sup>2</sup>	<b>8.9m</b>
340cms	<b>108.21cms</b>	<b>13m</b>	<b>3.4m</b>	522.8m <sup>2</sup>	<b>8.9m</b>
341cms	<b>108.52cms</b>	<b>13m</b>	<b>3.4m</b>	530.9m <sup>2</sup>	<b>8.9m</b>
342cms to 344cms	<b>108.84cms to 109.48cms</b>	<b>13.1m</b>	<b>3.4m</b>	539.1m <sup>2</sup>	<b>9m</b>
345cms to 346cms	<b>109.80cms to 110.12cms</b>	<b>13.2m</b>	<b>3.4m</b>	547.4m <sup>2</sup>	<b>9.1m</b>
347cms to 349cms	<b>110.43cms to 111.07cms</b>	<b>13.3m</b>	<b>3.5m</b>	555.7m <sup>2</sup>	<b>9.1m</b>
350cms to 352cms	<b>111.39cms to 112.03cms</b>	<b>13.4m</b>	<b>3.5m</b>	564.1m <sup>2</sup>	<b>9.2m</b>
353cms to 354cms	<b>112.34cms to 112.66cms</b>	<b>13.5m</b>	<b>3.5m</b>	572.6m <sup>2</sup>	<b>9.3m</b>
355cms to 357cms	<b>112.98cms to 113.62cms</b>	<b>13.6m</b>	<b>3.5m</b>	581.1m <sup>2</sup>	<b>9.4m</b>
358cms to 360cms	<b>113.94cms to 114.57cms</b>	<b>13.7m</b>	<b>3.5m</b>	589.6m <sup>2</sup>	<b>9.4m</b>
361cms to 362cms	<b>114.89cms to 115.21cms</b>	<b>13.8m</b>	<b>3.5m</b>	598.3m <sup>2</sup>	<b>9.5m</b>
363cms to 365cms	<b>115.53cms to 116.16cms</b>	<b>13.9m</b>	<b>3.5m</b>	607m <sup>2</sup>	<b>9.6m</b>
366cms to 367cms	<b>116.48cms to 116.80cms</b>	<b>14m</b>	<b>3.5m</b>	615.8m <sup>2</sup>	<b>9.6m</b>
368cms to 370cms	<b>117.12cms to 117.75cms</b>	<b>14.1m</b>	<b>3.5m</b>	624.6m <sup>2</sup>	<b>9.7m</b>
371cms	<b>118.07cms</b>	<b>14.2m</b>	<b>3.5m</b>	633.5m <sup>2</sup>	<b>9.8m</b>

## Tree Protection and Structural Root Zone Radii for Trees

<i>Circumference</i>	<b>Diameter</b>	<b>TPZ radius</b>	<b>SRZ radius</b>	<b>TPZ m<sup>2</sup> area</b>	<b>10% encroachment distance</b>
372cms to 373cms	<b>118.39cms to 118.71cms</b>	<b>14.2m</b>	<b>3.6m</b>	633.5m <sup>2</sup>	<b>9.8m</b>
374cms to 375cms	<b>119.03cms to 119.35cms</b>	<b>14.3m</b>	<b>3.6m</b>	642.4m <sup>2</sup>	<b>9.8m</b>
376cms to 378cms	<b>119.66cms to 120.30cms</b>	<b>14.4m</b>	<b>3.6m</b>	651.4m <sup>2</sup>	<b>9.9m</b>
379cms to 380cms	<b>120.62cms to 120.94cms</b>	<b>14.5m</b>	<b>3.6m</b>	660.5m <sup>2</sup>	<b>10m</b>
381cms to 383cms	<b>121.26cms to 121.89cms</b>	<b>14.6m</b>	<b>3.6m</b>	669.7m <sup>2</sup>	<b>10m</b>
384cms	<b>122.21cms</b>	<b>14.7m</b>	<b>3.6m</b>	678.9m <sup>2</sup>	<b>10m</b>
385cms to 386cms	<b>122.53cms to 122.85cms</b>	<b>14.7m</b>	<b>3.6m</b>	678.9m <sup>2</sup>	<b>10.1m</b>
387cms to 388cms	<b>123.16cms to 123.48cms</b>	<b>14.8m</b>	<b>3.6m</b>	688.1m <sup>2</sup>	<b>10.2m</b>
389cms to 391cms	<b>123.8cms to 391cms</b>	<b>14.9m</b>	<b>3.6m</b>	697.5m <sup>2</sup>	<b>10.2m</b>
392cms to 396cms	<b>124.76cms to 126.03cms</b>	<b>15m</b>	<b>3.6m</b>	706.9m <sup>2</sup>	<b>10.3m</b>
397cms to 400cms	<b>126.35cms to 127.30cms</b>	<b>15m</b>	<b>3.7m</b>	706.9m <sup>2</sup>	<b>10.3m</b>

### Tree Protection Zone (TPZ)

The tree protection Zone (TPZ) is the principal means of protecting trees on development sites. The TPZ is a **combination** of the **root area** and **crown area** requiring protection. It is an area isolated from construction disturbance, so that the tree remains viable.

The radius of the TPZ is calculated for each tree by multiplying its diameter at breast height (DBH) i.e. measured at 1.4 metres above ground.

$$\text{TPZ} = \text{DBH} \times 12$$

Radius is measured from the centre of the stem at ground level.

The TPZ should not be less than 2 metres nor greater than 15 metres (except where crown protection is required.)

# Tree Protection and Structural Root Zone Radii for Trees

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## **Structural Root Zone (SRZ)**

The SRZ is the area required for tree stability. A larger area (TPZ) is required to maintain viable trees. The SRZ only needs to be calculated when major encroachment into a TPZ is proposed.

### **Activities Restricted within the TPZ**

**Activities generally excluded from the TPZ include but are not limited to—**

- (a) Machine excavation including trenching;**
- (b) Excavation for silt fencing;**
- (c) Cultivation;**
- (d) Storage;**
- (e) Preparation of chemicals including preparation of cement products;**
- (f) Parking of vehicles and plant;**
- (g) Refuelling;**
- (h) Dumping of waste;**
- (i) Wash down and cleaning of equipment;**
- (j) Placement of fill;**
- (k) Lighting of fires;**
- (l) Soil level changes;**
- (m) Temporary or permanent installation of utilities and signs;**
- (n) Physical damage to the tree.**

### **Protective fencing**

The TPZ should be secured to restrict access. Fencing should be erected before any machinery or materials are brought onto the site and before the commencement of works including demolition. Once erected, protective fencing must not be removed or altered without approval of the project arborist.

Protective fencing must be sufficiently sturdy to withstand an accidental knock from machinery or equipment.

The fence must be a minimum height of 1.5 metres at its lowest point. Fence posts and/or steel star pickets must be located clear of tree roots. Wire mesh or cyclone mesh must be securely attached to the posts and supporting wire. Shade cloth or similar should be attached to the fence to reduce the transport of dust, other particulate matter and liquids into the protected area.

Signs identifying the TPZ area must be attached around the edge of the TPZ fencing and be visible from within the development site. Lettering on the sign must be legible and advise the TPZ area is a no-go area free from development activities.

### **Maintaining the TPZ area**

**Mulching—the area within the TPZ should be mulched with well-composted organic material i.e. wood mulch. The mulch must be maintained to a depth of 100mm.**

**Watering—Temporary irrigation or watering may be required within the TPZ area, particularly during periods of extended hot, dry weather over summer. Watering should be deep rather than shallow.**

**Weeding—weeds must be removed before the mulch is applied. Weed growth occurring after the mulch has been applied must be controlled/removed.**