

**CALCUL DE L'INERTIE NECESSAIRE D'UN PROFIL EN BOIS****POIDS PROPRE**ép verre 8 mm E 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	5.1	7.7	10.3	12.8	15.4	18.0	20.6	23.1	25.7	28.3	30.8	33.4	36.0
	1.25	8.1	12.1	16.1	20.2	24.2	28.2	32.3	36.3	40.3	44.4	48.4	52.4	56.5
	1.5	11.6	17.5	23.3	29.1	34.9	40.8	46.6	52.4	58.2	64.1	69.9	75.7	81.5
	1.75	18.5	27.8	37.1	46.3	55.6	64.8	74.1	83.4	92.6	101.9	111.2	120.4	129.7
	2	27.7	41.5	55.4	69.2	83.1	96.9	110.7	124.6	138.4	152.3	166.1	180.0	193.8
	2.25	39.4	59.2	78.9	98.6	118.3	138.1	157.8	177.5	197.2	217.0	236.7	256.4	276.1
	2.5	54.1	81.2	108.3	135.3	162.4	189.5	216.6	243.6	270.7	297.8	324.8	351.9	379.0
	2.75	72.1	108.1	144.2	180.2	216.3	252.3	288.3	324.4	360.4	396.5	432.5	468.5	504.6
	3	93.6	140.4	187.2	234.0	280.8	327.6	374.4	421.3	468.1	514.9	561.7	608.5	655.3
	3.25	119.0	178.6	238.1	297.6	357.1	416.7	476.2	535.7	595.2	654.7	714.3	773.8	833.3
	3.5	148.7	223.1	297.4	371.8	446.1	520.5	594.8	669.2	743.5	817.9	892.3	966.6	1041.0
	3.75	182.9	274.4	365.9	457.3	548.8	640.3	731.7	823.2	914.7	1006.1	1097.6	1189.1	1280.5
	4	222.0	333.1	444.1	555.1	666.1	777.1	888.1	999.2	1110.2	1221.2	1332.2	1443.2	1554.3

ép verre 10 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	6.4	9.6	12.8	16.1	19.3	22.5	25.7	28.9	32.1	35.3	38.5	41.8	45.0
	1.25	10.1	15.1	20.2	25.2	30.3	35.3	40.3	45.4	50.4	55.5	60.5	65.6	70.6
	1.5	14.6	21.8	29.1	36.4	43.7	51.0	58.2	65.5	72.8	80.1	87.4	94.7	101.9
	1.75	23.2	34.7	46.3	57.9	69.5	81.1	92.6	104.2	115.8	127.4	139.0	150.5	162.1
	2	34.6	51.9	69.2	86.5	103.8	121.1	138.4	155.7	173.0	190.3	207.6	224.9	242.2
	2.25	49.3	74.0	98.6	123.3	147.9	172.6	197.2	221.9	246.5	271.2	295.8	320.5	345.2
	2.5	67.7	101.5	135.3	169.2	203.0	236.9	270.7	304.5	338.4	372.2	406.0	439.9	473.7
	2.75	90.1	135.2	180.2	225.3	270.3	315.4	360.4	405.5	450.5	495.6	540.6	585.7	630.7
	3	117.0	175.5	234.0	292.5	351.0	409.5	468.1	526.6	585.1	643.6	702.1	760.6	819.1
	3.25	148.8	223.2	297.6	372.0	446.4	520.8	595.2	669.6	744.0	818.4	892.8	967.2	1041.6
	3.5	185.9	278.8	371.8	464.7	557.7	650.6	743.5	836.5	929.4	1022.4	1115.3	1208.3	1301.2
	3.75	228.7	343.0	457.3	571.7	686.0	800.3	914.7	1029.0	1143.3	1257.7	1372.0	1486.3	1600.7
	4	277.5	416.3	555.1	693.9	832.6	971.4	1110.2	1249.0	1387.7	1526.5	1665.3	1804.1	1942.8

ép verre 12 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	7.7	11.6	15.4	19.3	23.1	27.0	30.8	34.7	38.5	42.4	46.3	50.1	54.0
	1.25	12.1	18.2	24.2	30.3	36.3	42.4	48.4	54.5	60.5	66.6	72.6	78.7	84.7
	1.5	17.5	26.2	34.9	43.7	52.4	61.2	69.9	78.6	87.4	96.1	104.8	113.6	122.3
	1.75	27.8	41.7	55.6	69.5	83.4	97.3	111.2	125.1	139.0	152.9	166.8	180.6	194.5
	2	41.5	62.3	83.1	103.8	124.6	145.3	166.1	186.9	207.6	228.4	249.2	269.9	290.7
	2.25	59.2	88.8	118.3	147.9	177.5	207.1	236.7	266.3	295.8	325.4	355.0	384.6	414.2
	2.5	81.2	121.8	162.4	203.0	243.6	284.2	324.8	365.4	406.0	446.6	487.2	527.8	568.4
	2.75	108.1	162.2	216.3	270.3	324.4	378.4	432.5	486.6	540.6	594.7	648.8	702.8	756.9
	3	140.4	210.6	280.8	351.0	421.3	491.5	561.7	631.9	702.1	772.3	842.5	912.7	982.9
	3.25	178.6	267.8	357.1	446.4	535.7	625.0	714.3	803.5	892.8	982.1	1071.4	1160.7	1250.0
	3.5	223.1	334.6	446.1	557.7	669.2	780.7	892.3	1003.8	1115.3	1226.9	1338.4	1449.9	1561.4
	3.75	274.4	411.6	548.8	686.0	823.2	960.4	1097.6	1234.8	1372.0	1509.2	1646.4	1783.6	1920.8
	4	333.1	499.6	666.1	832.6	999.2	1165.7	1332.2	1498.8	1665.3	1831.8	1998.3	2164.9	2331.4

**POIDS PROPRE**ép verre 14 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	9.0	13.5	18.0	22.5	27.0	31.5	36.0	40.5	45.0	49.5	54.0	58.5	63.0
	1.25	14.1	21.2	28.2	35.3	42.4	49.4	56.5	63.5	70.6	77.7	84.7	91.8	98.8
	1.5	20.4	30.6	40.8	51.0	61.2	71.4	81.5	91.7	101.9	112.1	122.3	132.5	142.7
	1.75	32.4	48.6	64.8	81.1	97.3	113.5	129.7	145.9	162.1	178.3	194.5	210.8	227.0
	2	48.4	72.7	96.9	121.1	145.3	169.6	193.8	218.0	242.2	266.5	290.7	314.9	339.1
	2.25	69.0	103.5	138.1	172.6	207.1	241.6	276.1	310.6	345.2	379.7	414.2	448.7	483.2
	2.5	94.7	142.1	189.5	236.9	284.2	331.6	379.0	426.3	473.7	521.1	568.4	615.8	663.2
	2.75	126.1	189.2	252.3	315.4	378.4	441.5	504.6	567.7	630.7	693.8	756.9	820.0	883.0
	3	163.8	245.7	327.6	409.5	491.5	573.4	655.3	737.2	819.1	901.0	982.9	1064.8	1146.7
	3.25	208.3	312.5	416.7	520.8	625.0	729.1	833.3	937.5	1041.6	1145.8	1250.0	1354.1	1458.3
	3.5	260.2	390.4	520.5	650.6	780.7	910.8	1041.0	1171.1	1301.2	1431.3	1561.4	1691.6	1821.7
	3.75	320.1	480.2	640.3	800.3	960.4	1120.5	1280.5	1440.6	1600.7	1760.7	1920.8	2080.8	2240.9
	4	388.6	582.8	777.1	971.4	1165.7	1360.0	1554.3	1748.5	1942.8	2137.1	2331.4	2525.7	2720.0

ép verre 16 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	10.3	15.4	20.6	25.7	30.8	36.0	41.1	46.3	51.4	56.5	61.7	66.8	71.9
	1.25	16.1	24.2	32.3	40.3	48.4	56.5	64.5	72.6	80.7	88.8	96.8	104.9	113.0
	1.5	23.3	34.9	46.6	58.2	69.9	81.5	93.2	104.8	116.5	128.1	139.8	151.4	163.1
	1.75	37.1	55.6	74.1	92.6	111.2	129.7	148.2	166.8	185.3	203.8	222.3	240.9	259.4
	2	55.4	83.1	110.7	138.4	166.1	193.8	221.5	249.2	276.9	304.5	332.2	359.9	387.6
	2.25	78.9	118.3	157.8	197.2	236.7	276.1	315.6	355.0	394.5	433.9	473.4	512.8	552.3
	2.5	108.3	162.4	216.6	270.7	324.8	379.0	433.1	487.2	541.4	595.5	649.7	703.8	757.9
	2.75	144.2	216.3	288.3	360.4	432.5	504.6	576.7	648.8	720.8	792.9	865.0	937.1	1009.2
	3	187.2	280.8	374.4	468.1	561.7	655.3	748.9	842.5	936.1	1029.7	1123.3	1216.9	1310.6
	3.25	238.1	357.1	476.2	595.2	714.3	833.3	952.4	1071.4	1190.4	1309.5	1428.5	1547.6	1666.6
	3.5	297.4	446.1	594.8	743.5	892.3	1041.0	1189.7	1338.4	1487.1	1635.8	1784.5	1933.2	2081.9
	3.75	365.9	548.8	731.7	914.7	1097.6	1280.5	1463.5	1646.4	1829.3	2012.3	2195.2	2378.1	2561.0
	4	444.1	666.1	888.1	1110.2	1332.2	1554.3	1776.3	1998.3	2220.4	2442.4	2664.4	2886.5	3108.5

ép verre 18 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	11.6	17.3	23.1	28.9	34.7	40.5	46.3	52.0	57.8	63.6	69.4	75.2	80.9
	1.25	18.2	27.2	36.3	45.4	54.5	63.5	72.6	81.7	90.8	99.8	108.9	118.0	127.1
	1.5	26.2	39.3	52.4	65.5	78.6	91.7	104.8	117.9	131.1	144.2	157.3	170.4	183.5
	1.75	41.7	62.5	83.4	104.2	125.1	145.9	166.8	187.6	208.4	229.3	250.1	271.0	291.8
	2	62.3	93.4	124.6	155.7	186.9	218.0	249.2	280.3	311.5	342.6	373.8	404.9	436.0
	2.25	88.8	133.1	177.5	221.9	266.3	310.6	355.0	399.4	443.8	488.2	532.5	576.9	621.3
	2.5	121.8	182.7	243.6	304.5	365.4	426.3	487.2	548.1	609.0	670.0	730.9	791.8	852.7
	2.75	162.2	243.3	324.4	405.5	486.6	567.7	648.8	729.9	810.9	892.0	973.1	1054.2	1135.3
	3	210.6	315.9	421.3	526.6	631.9	737.2	842.5	947.8	1053.1	1158.4	1263.8	1369.1	1474.4
	3.25	267.8	401.8	535.7	669.6	803.5	937.5	1071.4	1205.3	1339.2	1473.2	1607.1	1741.0	1874.9
	3.5	334.6	501.9	669.2	836.5	1003.8	1171.1	1338.4	1505.7	1673.0	1840.3	2007.6	2174.9	2342.2
	3.75	411.6	617.4	823.2	1029.0	1234.8	1440.6	1646.4	1852.2	2058.0	2263.8	2469.6	2675.4	2881.2
	4	499.6	749.4	999.2	1249.0	1498.8	1748.5	1998.3	2248.1	2497.9	2747.7	2997.5	3247.3	3497.1

**POIDS PROPRE**ép verre 20 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	12.8	19.3	25.7	32.1	38.5	45.0	51.4	57.8	64.2	70.7	77.1	83.5	89.9
	1.25	20.2	30.3	40.3	50.4	60.5	70.6	80.7	90.8	100.9	110.9	121.0	131.1	141.2
	1.5	29.1	43.7	58.2	72.8	87.4	101.9	116.5	131.1	145.6	160.2	174.7	189.3	203.9
	1.75	46.3	69.5	92.6	115.8	139.0	162.1	185.3	208.4	231.6	254.8	277.9	301.1	324.2
	2	69.2	103.8	138.4	173.0	207.6	242.2	276.9	311.5	346.1	380.7	415.3	449.9	484.5
	2.25	98.6	147.9	197.2	246.5	295.8	345.2	394.5	443.8	493.1	542.4	591.7	641.0	690.3
	2.5	135.3	203.0	270.7	338.4	406.0	473.7	541.4	609.0	676.7	744.4	812.1	879.7	947.4
	2.75	180.2	270.3	360.4	450.5	540.6	630.7	720.8	810.9	901.1	991.2	1081.3	1171.4	1261.5
	3	234.0	351.0	468.1	585.1	702.1	819.1	936.1	1053.1	1170.1	1287.2	1404.2	1521.2	1638.2
	3.25	297.6	446.4	595.2	744.0	892.8	1041.6	1190.4	1339.2	1488.1	1636.9	1785.7	1934.5	2083.3
	3.5	371.8	557.7	743.5	929.4	1115.3	1301.2	1487.1	1673.0	1858.9	2044.8	2230.6	2416.5	2602.4
	3.75	457.3	686.0	914.7	1143.3	1372.0	1600.7	1829.3	2058.0	2286.6	2515.3	2744.0	2972.6	3201.3
	4	555.1	832.6	1110.2	1387.7	1665.3	1942.8	2220.4	2497.9	2775.5	3053.0	3330.6	3608.1	3885.6

ép verre 22 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	14.1	21.2	28.3	35.3	42.4	49.5	56.5	63.6	70.7	77.7	84.8	91.9	98.9
	1.25	22.2	33.3	44.4	55.5	66.6	77.7	88.8	99.8	110.9	122.0	133.1	144.2	155.3
	1.5	32.0	48.1	64.1	80.1	96.1	112.1	128.1	144.2	160.2	176.2	192.2	208.2	224.2
	1.75	51.0	76.4	101.9	127.4	152.9	178.3	203.8	229.3	254.8	280.2	305.7	331.2	356.7
	2	76.1	114.2	152.3	190.3	228.4	266.5	304.5	342.6	380.7	418.7	456.8	494.9	532.9
	2.25	108.5	162.7	217.0	271.2	325.4	379.7	433.9	488.2	542.4	596.6	650.9	705.1	759.3
	2.5	148.9	223.3	297.8	372.2	446.6	521.1	595.5	670.0	744.4	818.8	893.3	967.7	1042.2
	2.75	198.2	297.3	396.5	495.6	594.7	693.8	792.9	892.0	991.2	1090.3	1189.4	1288.5	1387.6
	3	257.4	386.1	514.9	643.6	772.3	901.0	1029.7	1158.4	1287.2	1415.9	1544.6	1673.3	1802.0
	3.25	327.4	491.1	654.7	818.4	982.1	1145.8	1309.5	1473.2	1636.9	1800.5	1964.2	2127.9	2291.6
	3.5	409.0	613.4	817.9	1022.4	1226.9	1431.3	1635.8	1840.3	2044.8	2249.2	2453.7	2658.2	2862.7
	3.75	503.1	754.6	1006.1	1257.7	1509.2	1760.7	2012.3	2263.8	2515.3	2766.8	3018.4	3269.9	3521.4
	4	610.6	915.9	1221.2	1526.5	1831.8	2137.1	2442.4	2747.7	3053.0	3358.3	3663.6	3968.9	4274.2

ép verre 24 mm E= 6000 N/mm<sup>2</sup> long/fleche 500 fleche max 3 mm

		hauteur au-dessus du profil (m)												
		0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5
longueur du profil (m)	1	15.4	23.1	30.8	38.5	46.3	54.0	61.7	69.4	77.1	84.8	92.5	100.2	107.9
	1.25	24.2	36.3	48.4	60.5	72.6	84.7	96.8	108.9	121.0	133.1	145.2	157.3	169.4
	1.5	34.9	52.4	69.9	87.4	104.8	122.3	139.8	157.3	174.7	192.2	209.7	227.2	244.6
	1.75	55.6	83.4	111.2	139.0	166.8	194.5	222.3	250.1	277.9	305.7	333.5	361.3	389.1
	2	83.1	124.6	166.1	207.6	249.2	290.7	332.2	373.8	415.3	456.8	498.3	539.9	581.4
	2.25	118.3	177.5	236.7	295.8	355.0	414.2	473.4	532.5	591.7	650.9	710.0	769.2	828.4
	2.5	162.4	243.6	324.8	406.0	487.2	568.4	649.7	730.9	812.1	893.3	974.5	1055.7	1136.9
	2.75	216.3	324.4	432.5	540.6	648.8	756.9	865.0	973.1	1081.3	1189.4	1297.5	1405.6	1513.8
	3	280.8	421.3	561.7	702.1	842.5	982.9	1123.3	1263.8	1404.2	1544.6	1685.0	1825.4	1965.8
	3.25	357.1	535.7	714.3	892.8	1071.4	1250.0	1428.5	1607.1	1785.7	1964.2	2142.8	2321.4	2499.9
	3.5	446.1	669.2	892.3	1115.3	1338.4	1561.4	1784.5	2007.6	2230.6	2453.7	2676.8	2899.8	3122.9
	3.75	548.8	823.2	1097.6	1372.0	1646.4	1920.8	2195.2	2469.6	2744.0	3018.4	3292.8	3567.2	3841.6
	4	666.1	999.2	1332.2	1665.3	1998.3	2331.4	2664.4	2997.5	3330.6	3663.6	3996.7	4329.7	4662.8