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WZMOCNIENIA

F wzmocnienie

-> do

IDEAL 8000
IDEAL 7000
IDEAL 5000
IDEAL 4000
IDEAL 4000 NL
IDEAL 2000
Nord-line
drzwi unoszono-przesuwne
okna przesuwne
okiennice
profile dodatkowe

x y y = Ix Iy

W niektórych przypadkach wzmocnienia montowane są w pozycji obróconej o 90° w stosunku do przedstawionej na rysunkach.
W takiej sytuacji należy odpowiednio zamienić wartości Ix i Iy:

+90° = Ix Iy lub Iy Ix

1) (alu) x 1/3 ~ Ix Iy stal
stal ≠alu = (Ix) (Iy) [cm⁴]

2) z wycięciami

3) z otworami

E łącznik narożny
patrz plan:
dodatki
IDEAL 2000 - 8000

H elementy montażowe
patrz plan:
profile dodatkowe
profile statyczne

x y y | s [mm] | Ix [cm⁴] | Iy [cm⁴] | -> do

33 | -> (IND) 100x66
29
F 209066 2.0mm 2.6 1.2 (IND)
F 209067 1.5mm 2.0 1.0 (IND)

20 | -> 100075
27
F 209075 2.0mm 0.8 1.2

33 | -> 100079
26
F 209079 2.0mm 2.6 1.8

45 | -> 100097, 100098
10
F 209121 1.5mm 3.0 0.2

40 | -> 100x92, 170x30
48
F 209192 1.25mm 4.6 3.7
F 209193 2.0mm 7.0 5.7

59 | -> 140201, 140202, 140267, 180267
10
F 209900 1.5mm 7.3 0.08

30 | -> 120x07, 120x09, 120x18
31
F 229001 1.5mm 2.1 1.3
F 229002 2.0mm 2.7 1.7

30 | -> 100070, 100x72
27
F 229003 1.5mm 1.6 0.8
F 229004 2.0mm 2.1 1.1

30 | -> 100x74, 120x30, 120x31
43
F 229005 3.5 2.0mm 3.5 4.4

-> 120x37, 120x38, 140x21, 140x75
21.5
F 229007 2.0mm 2.8 0.6

73 | -> 120230
10
Ø5.5, a=250mm
3) z otworami
F 229010 3) 3.0mm 9.9 0.1
F 229010 3) 2x 3.0mm 19.7 0.2

34.5 | -> 120x10
12
F 229015 1.5mm 0.9 0.2

35 | -> 140x03, 140207, 170x03
40
F 229017 1.5mm 3.7 2.8

-> 120218, 140218
H 622338, 682332

80
13
F 229018 2.5mm 24.8 0.8

110 | -> 120219
17 15
3) z otworami
F 229019 3) 2.0mm 43.3 0.2
F 229019 3) 2x 2.0mm 86.6 0.4
H 622019

43.5 | -> 120x20, 120x77
27.5
F 229020 2.0mm 3.8 0.8

35 | -> 100090, 120x05, 120x09, 120x18, 120x20, 120x22, 120x27, 140x00, 140x01, 140x07, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x20, 140x22, 140x26, 170x02
27
F 229023 1.5mm 2.3 0.9
F 229025 1.0mm 1.6 0.6 120x05,

35 | 120x22, 120x27, 140x00, 140x01, 140x07, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x20, 140x22, 140x26, 170x02
27
F 229024 1.5mm 3.0 1.1 120x05,

35 | 120x22, 120x27, 140x00, 140x01, 140x07, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x20, 140x22, 140x26, 170x02
27
F 229026 2.0mm 3.8 1.5 120x22,

35 | 120x27, 120x28, 140x20, 140x26, 140x76, 140x82, 150x22
27
F 229027 1.5mm 1.7 0.6
F 229028 2.0mm 2.1 0.8

-> 100090, 120x05, 140x00, 140x01, 140x07, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 170x02, 170x64, 180x66
35
27
F 229029 2.0mm 2.5 1.7
F 229030 2.0mm 3.7 2.5

41.5 | -> 120x38, 140x21
21.5
F 229031 2.0mm 4.4 0.8

35 | -> 080x89, 120x91
16.5
F 229034 1.5mm 1.7 0.3

35 | -> 110x99, 120x39, 120x57, 120x59, 120x91, 180x15, 180x16, 180x46, 180x47
17.5
F 229037 1.5mm 2.5 0.7

40 | -> 120275, 140248
40
H 622041
F 229040 2.0mm 7.0 7.0

34 | -> 150x10, 150x12
12.5
F 229045 1.5mm 1.1 0.2

48 | -> 120x63, 140x69, 180x64
14.5
F 229063 2.0mm 4.3 0.2

-> 120x34, 120x74
43.5
45
F 229073 2.0mm 5.1 4.1

27.5 | -> 110x93
25.5
F 229093 1.5mm 1.1 0.5

35 | -> 120x41, 120x45, 140x05, 140x06, 140x15, 140x17, 140x41, 140x47, 150x02, 150x11
20
F 229098 2.5mm 4.1 1.5

35 | -> 120x41, 120x45, 140x05, 140x06, 140x15, 140x17, 140x41, 140x47, 150x02, 150x11
20
F 229100 1.25mm 2.0 0.8

35 | -> 120x41, 120x45, 140x05, 140x06, 140x15, 140x17, 140x41, 140x47, 150x02, 150x11
20
F 229101 1.5mm 2.8 1.0

45 | -> 100090, 180x44
20
F 229102 1.5mm 5.1 1.2
F 229103 2.5mm 7.3 1.8

25 | -> 100x73, 100x78, 120230, 150x65, 190298
15
F 229107 2.0mm 1.0 0.4 +90°

35 | -> 110x06, 110x08, 110x09, 120x19, 120223, 120242, 140x10, 140205
15
F 229110 1.5mm 1.8 0.5
F 229111 2.0mm 2.3 0.6

30 | -> 120x07, 120x09, 120x18, 140x07, 140x08, 150x03, 150x04, 180x04, 180x05
30
F 229112 1.0mm 1.5 1.5
F 229113 2.0mm 2.7 2.7

35 | -> 120109, 120221, 120223, 140x03, 140x30, 140x31, 140x77, 140207, 140208, 150x30, 150x31, 150x32, 170x03, 170x81, 180x30, 180x31,
40
E 680030 + 640938 180204
Ei 640031 + 640938
F 229114 1.5mm 4.0 5.0 +90°
F 229115 2.0mm 5.0 6.4 +90° 02, 080x04, 080x05, 120x60

20 | 070x02, 080x04, 080x05, 120x60
25
F 229117 2.0mm 0.9 1.3

20 | -> 070x02, 080x04, 080x05, 110x95, 120x60
25
F 229119 1.5mm 0.7 1.0 +90°

35 | -> 140x03, 170x03
40
F 229120 2.0mm 4.0 5.4

30 | -> 120x07, 120x09, 120x18, 140x07, 140x08, 150x03, 150x04, 180x04, 180x05
30
F 229121 1.5mm 2.1 2.1

40 | -> 120x33, 120x35, 120109, 140x33, 140x35, 170080, 170x81
50
E 620125 + 640938
H 622104
2) 3-5x z wycięciami
F 229125 2.0mm 8.5 12.1 +90°
F 229129 2) 2.0mm 8.5 12.1 +90° -> 120109

40 | -> 120x33, 120x35, 120109, 140x33, 140x35, 170080, 170x81
50
E 620126 + 640938
2) 3-5x z wycięciami
F 229126 3.0mm 11.8 16.8 +90°
F 229131 2) 3.0mm 11.8 16.8 +90°

50 | -> 140x38, 170x33, 170x35, 170x39
50
E 640038 + 640938
2) 3x z wycięciami
F 229135 2.0mm 14.4 14.4
F 229137 2) 2.0mm 14.4 14.4

-> 120241
Ø48.3
H 622140
F 229140 3.25mm 11.7 11.7

30 | -> 110x93
25.5
F 229212 1.0mm 0.5 0.3

32 | -> 080x86, 150x03, 150x04, 150x85, 180x04, 180x05, 180x20, 180x26, 180x69, 180x85, 180x86
30
F 239019 1.5mm 1.7 0.8
F 239020 2.0mm 2.1 1.1

30 | -> 120x52, 120238
15
F 239030 1.25mm 1.5 0.5

30 | -> 120238, 140200, 190246
20
F 239129 1.5mm 1.6 0.9 +90°

35 | -> 140x05, 140x06, 140x15, 140x17, 140x17, 150x02, 150x11
20
F 249004 2.0mm 2.6 0.5

35 | -> 140x32, 140x34
50
F 249007 2.0mm 5.9 6.8

35 | -> 140x32, 140x34, 140x84
35
E 640032 + 640938
F 249009 2.0mm 4.5 4.5

38 | -> 140x00, 140x01, 140x12, 140x14, 140x16, 140x18, 140x19, 140x91
27.5
F 249010 1.5mm 1.8 0.6

40 | -> 140x31
50
F 249013 2.0mm 7.9 7.1

35 | -> 100x78, 140x46
10
F 249019 2.0mm 1.8 0.2

40 | -> 150x85, 180x20, 180x26, 180x69, 180x85, 180x86
28.5
F 249025 2.0mm 5.1 1.5

-> 100090, 120x05, 120x22, 120x27, 140x00, 140x01, 140x07, 140x08, 140x12, 140x14, 140x16, 140x18, 140x19, 140x20, 140x22, 140x26, 170x02
35
27
F 249028 3.0mm 5.1 2.4 -> 140x30, 140x31, 140x77, 150x30, 150x31, 150x32

50 | 140x30, 140x31, 140x77, 150x30, 150x31, 150x32
50
F 249031 2.0mm 6.9 5.5

45 | -> 140x45, 170x44, 180203,
40
F 249034 1.25mm 6.1 5.2
F 249035 2.0mm 9.2 7.8

35 | -> 140x37
18.5
F 249037 1.2mm 2.1 0.4

-> 140x53, 140x54, 140x55, 140x57, 140x59
89
25
F 249054 1.5mm 26.7 3.1

48 | -> 140x90
12
F 249190 1.5mm 3.5 0.3

35 | -> 140x93
30
F 249192 1.5mm 2.4 0.9

30 | -> 140x94
30.5
F 249194 1.5mm 1.7 0.9

35 | -> 140x95, 180x30, 180x31
45
F 249195 2.0mm 5.3 5.1

48 | -> 140x98, 140x99
23
F 249198 1.5mm 4.8 1.3

-> 140x94
30.5
F 249204 2.0mm 2.2 1.2

140 | -> 170080
40
1) (alu) x 1/3 ~ 65 6.3 stal
F 249228 1) 2.0mm (197) (18.8) 6.7m

40 | -> skrzydło -> IDEAL 4000, IDEAL 5000
5
3) z otworami
F 249233 3) 2.5mm 2.5 0.04 2.4m

77.5 | -> Ogólnie -> 144233
25
F 249234 1.5mm 12.6 2.0

40 | -> 140249
33
H 622902
F 249242 2.0mm 2.9 2.0 +90°

-> 140244
Ø60.3
H 622333
F 249244 3.2mm 23.5 23.5

40 | -> 150x85, 180x20, 180x26, 180x69, 180x85, 180x86
30
F 259002 2.0 mm 3.9 1.1

35 | -> 140208, 150x03, 150x04
30
F 259010 1.5mm 2.7 2.5 +90°
F 259011 2.0mm 3.5 3.2 +90°

26.5 | -> 100069, 100071, 110x96
9.5
F 259018 2.0mm 0.8 0.2
F 259019 1.5mm 0.7 0.1 (IND)

40 | -> M 150x20, 150x68, 170x20
27.5
F 259020 1.25mm 2.1 0.5
F 259021 2.0mm 3.2 0.8

39.5 | -> skrzydło -> IDEAL 4000, IDEAL 5000, M IDEAL 7000, M IDEAL 8000
4
3) z otworami
F 259023 3) 2.0mm 1.9 0.02 2.4m

40 | -> 150x85, 180x20, 180x26, 180x69, 180x85, 180x86
30
F 259025 1.5mm 3.1 0.8

40 | -> 050x20, 080x20, 150x20, 150x22, 150x26, 150x68, 170x20, 180x20, 180x27
27.5
F 259026 2.0mm 4.3 1.3

40 | -> 150x30, 150x31, 180x30, 180x31
54
F 259031 2.0mm 7.2 6.5

40 | -> 150x43, 170x41, 180201
20
F 259043 1.5mm 3.9 1.1
F 259044 2.5mm 5.6 1.6

48 | -> 150x67
27.5
F 259067 2.0mm 5.0 2.5

38 | -> 150x80
9
F 259080 2.0mm 1.8 0.08

38 | -> 050x87
19
F 259087 2.0mm 2.6 0.5

40 | -> 140x67, 150x94
19.5
F 259094 2.0mm 3.1 0.4

40 | -> 150x94
19.5
F 259094xxx 2.0mm 3.1 0.4 = 2590940000098

42.5 | -> 150x94
14.5
F 259194 2.0mm 2.9 0.2

35 | -> 140x53, 140x54, 140x55, 140x57, 140x91
25
F 259906 2.0mm 3.4 2.1

60 | -> 120109
40
H 622104
F 259926 2.0mm 18.7 10.0

50 | -> 170x81
42.5
1) (alu) x 1/3 ~ 5.9 3.2 stal
F 279036 1) 2.8mm (17.8) (9.6)

140 | -> 170080
40
1) (alu) x 1/3 ~ 69.0 7.1 stal
F 279108 1) 2.0mm (206) (21.3) 6.7m

56 | -> 120224
8.5
F 289018 1.5mm 6.6 0.2

50 | -> skrzydło -> IDEAL 7000, IDEAL 8000
5
3) z otworami
F 289027 3) 2.5mm 3.5 0.04 2.4m

45 | -> 170x64, 180x66
28.5
F 289066 2.0mm 7.7 2.0

48 | -> 080x89
17
F 289089 2.0mm 6.2 0.4

-> 180218
H 622338, 682332

90 | -> 190220, 190246
24.5
F 289218 2.0mm 37.0 1.4

52 | -> 190221, 190222
38
F 299220 1.5mm 5.1 2.2

40 | -> 190221, 190222
40
E 690226 + 640938
F 299221 1.0mm 3.8 3.8

40 | -> 190221, 190222
40
E 690227 + 640938
1) (alu) x 1/3 ~ 2.4 2.4 stal
F 299222 1) 2.0mm (7.2) (7.2)

40 | -> 190223
36
1) (alu) x 1/3 ~ 2.6 2.4 stal
F 299223 1) 2.5mm (7.9) (7.3)

8 | -> 190233, 190235
20
1) (alu) x 1/3 ~ 0.02 0.09 stal
F 299234 1) 1.2mm (0.06) (0.2) +90°

10.5 | -> 190234
25
1) (alu) x 1/3 ~ 0.03 0.17 stal
F 299235 1) 1.2mm (0.09) (0.5) +90°

25 | -> 190238, 190241
30
F 299238 0.8mm 0.7 1.3

30 | -> 190238, 190241
25
F 299944 1.5mm 1.9 1.5 +90°

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