

Sinüs Panel[®]

ENG STEEL ENG STEEL CONSTRACTION LTD IRDEN BUILD PANEL LTD

SINUS PANEL LTD

TrapezPanel® TRAPEZE PANEL LTD

I and H Shaped Steel Profiles CATALOG

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HEA / HEB Profile

Length: It is produced from 4 m to - 18 m.

Dimensions: EURONORM 53-62 ASTM A6 /A 6M - 07

Tolerances: EN 10034 ASTM A 6/A 6M - 07

Although H-section structural profiles are used especially in the construction of steel construction buildings, they are also used in reinforced concrete structures for the purpose of supporting the structure. In low and high altitude constructions, it is used in all areas of the construction that makes up the building, as well as in agricultural machinery, automotive, basic construction and industrial applications.





| | HEA/HEB Beam Sizes(mm) | | | | | | | | | | | | | | |
|--------------|------------------------|--------------|------------|------------|-------------|--------------|----------|-----------------|--------------------|----------------|------------|-----|--------------|------|--|
| | | G kg/m | h mm | b mm | tw mm | tf mm | r mm | A cm2 | | | | | | | |
| | HEA 100 | 16,7 | 96 | 100 | 5,0 | 8,0 | 12 | 21,24 | HEA 340 | 105,0 | 330 | 300 | 9,5 | 16,5 | |
| | HEB 100 | 20,4 | 100 | 100 | 6,0 | 10,0 | 12 | 26,04 | HEB 340 | 134,0 | 340 | 300 | 12,0 | 21,5 | |
| | HEA 120 | 19,9 | 114 | 120 | 5,0 | 8,0 | 12 | 25,34 | HEA 360 | 112,0 | 350 | 300 | 10,0 | 17,5 | |
| | HEB 120 | 26,7 | 120 | 120 | 6,5 | 11,0 | 12 | 34,01 | HEB 360 | 142,0 | 360 | 300 | 12,5 | 22,5 | |
| | HEA 140 | 24,7 | 133 | 140 | 5,5 | 8,5 | 12 | 31,42 | HEA 400 | 125,0 | 390 | 300 | 11,0 | 19,0 | |
| | HEB 140 | 33,7 | 140 | 140 | 7,0 | 12,0 | 12 | 42,96 | HEB 400 | 155,0 | 400 | 300 | 13,5 | 24,0 | |
| | HEA 160 | 30,4 | 152 | 160 | 6,0 | 9,0 | 15 | 31,42 | HEB 400 | 155,0 | 400 | 300 | 13,5 | 24,0 | |
| | HEB 160 | 42,6 | 160 | 160 | 8,0 | 13,0 | 15 | 54,25 | HEA 450 | 140,0 | 440 | 300 | 11,5 | 21,0 | |
| | HEA 180 | 35,5 | 171 | 180 | 6,0 | 9,5 | 15 | 45,25 | HEB 450 | 171,0 | 450 | 300 | 14,0 | 26,0 | |
| | HEB 180 | 51,2 | 180 | 180 | 8,5 | 14,0 | 15 | 65,25 | HEA 500 | 155,0 | 490 | 300 | 12,0 | 23,0 | |
| | HEA 200 | 42,3 | 190 | 200 | 6,5 | 10,0 | 18 | 53,83 | HEB 500 HEA 550 | 187,0 166,0 | 500 540 | 300 | 14,5 12,5 | 28,0 | |
| | HEB 200 | 61,3 | 200 | 200 | 9,0 | 15,0 | 18 | 78,08 | HEB 550 | 199,0 | 550 | 300 | 15,0 | 29,0 | |
| | HEA 220 | 50,5 | 210 | 220 | 7,0 | 11,0 | 18 | 64,34 | HEA 600 | 178,0 | 590 | 300 | 13,0 | 25,0 | |
| | HEB 220 | 71,5 | 220 | 220 | 9,5 | 16,0 | 18 | 91,04 | HEB 600 | 212,0 | 600 | 300 | 15,5 | 30,0 | |
| | HEA 240 HEB 240 | 60,3 83,2 | 230 240 | 240 240 | 7.5 10,0 | 12,0 17,0 | 21 21 | 76,84 106,00 | | | | | | | |
| | HEA 260 | 68,2 | 250 | 260 | 7,5 | 12,5 | 24 | 86,62 | | | | | | | |
| | HEB 260 | 93,0 | 260 | 260 | 10,0 | 17,5 | 24 | 118,40 | | | | | | | |
| ENG STEEL | HEA 280 | 76,4 | 270 | 280 | 8,0 | 13,0 | 24 | 97,26 | | | | | | | |
| ^~~ | HEB 280 | 103,0 | 280 | 280 | 10,5 | 18,0 | 24 | 131,40 | | | | | | | |
| IRDENYAPI | HEA 300 | 88,0 | 290 | 300 | 8,5 | 14,0 | 27 | 112,50 | | | | | | | |
| SinüsPanel® | HEB 300 | 117,0 | 300 | 300 | 11,0 | 19,0 | 27 | 149,10 | | | | | | | |
| | HEA 320 | 97,6 | 310 | 300 | 9,0 | 15,5 | 27 | 124,40 | | | | | | | |
| TrapezPanel® | HEB 320 | 127,0 | 320 | 300 | 11,5 | 20,5 | 27 | 161,30 | | | | | | | |

27

27

27

27

27

27

27

27

27

27

27

27

27

27

27

133,50

170,90

142,80

180,60

159,00

197,80

197,80

178,00

218,00

197,50

238,50

211,80

254,10

226,50

270,00

W Profile

Length: It is produced from 4 m to - 18 m.

Dimensions: ASTM A6 /A 6M - 07 Tolerances: ASTM A 6/A 6M - 07

W Profiles are used especially in the construction of solar energy systems and steel construction buildings, and they are also used in reinforced concrete structures for the purpose of supporting the structure.

Project-specific machining and welded manufacturing of W profiles used in carrier systems in solar energy systems constructions are made, and they can be delivered in accordance with the project with

hot-dip galvanized coating at the desired coating thickness.

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W Profile Sizes

| Imperial (inch) | Size (mm) | G kg/m | A mm | b mm | h mm | tw mm | tf mm |
|-----------------|----------------|-----------|---------|---------|---------|----------|----------|
| W 6x4x7 | W 150x100x10.4 | 10,4 | 7,6 | 99,2 | 147,1 | 3,4 | 4,1 |
| W 6x4x7,75 | W 150x100x11.5 | 11,5 | 12,3 | 99,6 | 147,8 | 3,8 | 4,5 |
| W 6x4x8,5 | W 150x100x12.6 | 12,6 | 15,9 | 100,1 | 148,1 | 4,3 | 5,0 |
| W 6x4x9 | W 150x100x13.4 | 13,4 | 17,3 | 100,1 | 150,0 | 4,3 | 5,5 |
| W 6x4x10,4 | W 150x100x15.5 | 15,5 | 19,6 | 100,8 | 151,4 | 5,1 | 6,3 |
| W 6x4x12 | W 150x100x17.9 | 17,9 | 22,9 | 101,6 | 153,2 | 5,8 | 7,1 |
| W 6x4x16 | W 150x100x23.8 | 23,8 | 30,6 | 102,4 | 159,5 | 6,6 | 10,3 |
| W 8x4x10 | W 200x100x14.9 | 14,9 | 19,1 | 100,0 | 200,0 | 4,3 | 5,2 |
| W 8x4x13 | W 200x100x19.3 | 19,3 | 24,8 | 102,0 | 203,0 | 5,8 | 6,5 |
| W 8x4x15 | W 200x100x22.5 | 22,5 | 28,6 | 102,0 | 206,0 | 6,2 | 8,0 |
| W 8x5,25x14 | W 200x130x21.4 | 21,4 | 27,2 | 134,0 | 203,0 | 5,0 | 6,4 |
| W 8x5,25x18 | W 200x130x26.6 | 26,6 | 33,9 | 133,0 | 207,0 | 5,8 | 8,4 |
| W 8x5,25x21 | W 210x130x31.3 | 31,3 | 40,0 | 134,0 | 210,0 | 6,4 | 10,2 |

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B

IPE Profile

Length: It is produced from 4 m to - 18 m.

Dimensions: Mill Standard

Tolerances: EN 10034

IPE profiles, defined as the European Standard Universal Beam Profile

with Parallel Flange, are designed in parallel form with flange areas.

Although these profiles are the basic needs of the building/construction sector,

they are frequently used in the basic construction, infrastructure and machinery manufacturing sectors.

At the same time, it is possible to produce light series IPE-A, IPE-AA, IPE-AAA and IPE-AAAA,

which are special for areas that need lightening in construction design.

With its wide product range and qualities, customer demands are responded to quickly.



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| | | IPE Be | am Sizes(m | m) | | | | |
|--------------|-----------|---------|------------|----------|----------|---------|----------|-------------------------|
| | G kg/m | h mm | b mm | tw mm | tf mm | r mm | A cm2 | |
| IPE 80 | 6,00 | 80 | 46 | 3,8 | 5,2 | 5 | 7,60 | IPE 160 |
| IPE A 80 | 5,00 | 78 | 46 | 3,3 | 4,2 | 5 | 6,40 | IPE A 160 |
| IPE AA 80 | 4,90 | 78 | 46 | 3,2 | 4,2 | 5 | 6,30 | IPE AA 160 |
| IPE AAA 80 | 4,69 | 78 | 46 | 3,0 | 4,0 | 5 | 5,98 | IPE AAA 160 |
| IPE AAAA 80 | 3,99 | 76 | 46 | 2,9 | 3,1 | 5 | 5,08 | IPE AAAA 160 |
| IPE 100 | 8,10 | 100 | 55 | 4,1 | 5,7 | 7 | 10,30 | IPE 180 |
| IPE A 100 | 6,90 | 98 | 55 | 3,6 | 4,7 | 7 | 8,80 | IPE A 180 |
| IPE AA 100 | 6,70 | 97,6 | 55 | 3,6 | 4,5 | 7 | 8,60 | IPE AA 180 |
| IPE AAA 100 | 6,41 | 97 | 55 | 3,4 | 4,3 | 7 | 8,16 | IPE AAA 180 |
| IPE AAAA 100 | 5,46 | 96 | 55 | 2,9 | 3,6 | 7 | 6,95 | IPE AAAA 180 |
| IPE 120 | 10,40 | 120 | 64 | 4,4 | 6,3 | 7 | 13,20 | IPE 200 |
| IPE A 120 | 8,70 | 117,6 | 64 | 3,8 | 5,1 | 7 | 11,00 | IPE A 200 IPE AA 200 |
| IPE AA 120 | 8,40 | 117 | 64 | 3,8 | 4,8 | 7 | 10,70 | IPE AAA 200 |
| IPE AAA 120 | 7,90 | 117 | 64 | 3,5 | 4,6 | 7 | 10,06 | IPE AAAA 200 |
| IPE AAAA 120 | 6,73 | 115 | 64 | 3,0 | 3,9 | 7 | 8,57 | IPE 220 |
| IPE 140 | 12,90 | 140 | 73 | 4,7 | 6,9 | 7 | 16,40 | IPE A 220 |
| IPE A 140 | 10,50 | 137,4 | 73 | 3,8 | 5,6 | 7 | 13,40 | IPE 240 |
| IPE AA 140 | 10,10 | 136,6 | 73 | 3,8 | 5,2 | 7 | 12,80 | IPE A 240 |
| | • | , | | , | , | | , | IPE 270 |
| | | | | | | | | IPE A 270 |
| | | | | | | | | IPE 300 |
| | | | | | | | | IPE A 300 |

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IPE Beam Sizes(mm) G h Ь kg/m mm mm 15,80 **IPE 160** 160 82 12,70 157 IPE A 160

156,4

156

154

180

177

176,4

176

174

200

197

196,4

196

193

220

217

240

237

270

267

300

297

12,30

11,76

10,24

18,80

15,40

14,90

14,13

12,57

22,40

18,40

18,00

17,12

15,02

26,20

22,20

30,70

26,20

36,10

30,70

42,20

36,50

82

82

82

91

91

91

91

91

100

100

100

100

100

110

110

120

120

135

135

150

150

tw

mm

3,7

3,9

3,9

5,6

4,5

4,5

4,1

4,1

5,9

5,0

6,2

5,2

6,6

5,5

7,1

6,1

7,4 5,0 9 20,10 5,9 16,20 9 4,0 15,70 82 4,0 5,6

tf

mm

5,4

r

mm

9 9 9

14,98 13,04 23,90

19,60

19,00

18,00

16,01

28,50

Α

cm2

3,6 4,3 5,3 8,0 4,3 6,5 4,3 6,2

6,0

4,9

8,5

7,0

6,7

6,5

5,2

9,2

7,7

9,8

8,3

10,2

8,7

10,7

9,2

9 9 9

9 9

23,50 22,90

12

12

12

15

15

15

15

15

15

21,81 19,13

33,40

28,30

39,10 33,30 45,90

39,20

53,80

46,50

NPI Profile

Length: It is produced from 4 m to - 18 m.

Dimensions: DIN 10025 Tolerances: EN 10024

IPN profiles, defined as European Standard Beam Profile,

are designed with conical flange areas. Although these profiles are the basic needs of the building/construction sector, they are frequently

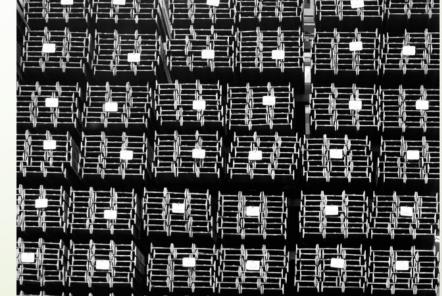
used in the basic construction,

infrastructure and machinery manufacturing sectors.

Profiles that can be produced in a wide range of quality and

cross-sections are offered to our customers with short delivery times.







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IPN Beam Sizes(mm)

| | G kg/m | h mm | b mm | tw mm | tf mm | r1 mm | r2 mm | A cm2 |
|---------|-----------|---------|---------|----------|----------|----------|----------|----------|
| IPN 80 | 5,9 | 80 | 42 | 3.9 | 5.9 | 3,9 | 2,3 | 7,6 |
| IPN 100 | 8,3 | 100 | 50 | 4.5 | 6.8 | 4,5 | 2,7 | 10.6 |
| IPN 120 | 11,1 | 120 | 58 | 5,1 | 7,7 | 5,1 | 3,1 | 14,2 |
| IPN 140 | 14,3 | 140 | 66 | 5,7 | 8,6 | 5,7 | 3,4 | 18,2 |
| IPN 160 | 17,9 | 160 | 74 | 6,3 | 9,5 | 6,3 | 3,8 | 22,8 |
| IPN 180 | 21,9 | 180 | 82 | 6,9 | 10,4 | 6,9 | 4,1 | 27,9 |
| IPN 200 | 26,2 | 200 | 90 | 7,5 | 11,3 | 7,5 | 4,5 | 33,4 |
| IPN 220 | 31,1 | 220 | 98 | 8,1 | 12,2 | 8,1 | 4,9 | 39,5 |
| IPN 240 | 36,2 | 240 | 106 | 8,7 | 13,1 | 8,7 | 5,2 | 46,1 |
| IPN 260 | 41,9 | 260 | 113 | 9,4 | 14,1 | 9,4 | 5,6 | 53,3 |
| IPN 280 | 47,9 | 280 | 119 | 10,1 | 15,2 | 10,1 | 6,1 | 61,0 |
| IPN 300 | 54,2 | 300 | 125 | 10,8 | 16,2 | 10,8 | 6,5 | 69,0 |

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IRDENVAPI

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THANK YOU

IF YOU WANT US TO MAKE YOUR PROJECTS THE FASTEST AND HIGHEST QUALITY, PLEASE CONTACT US

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