

ANGLE-PROFILES

Illustration (AxBxC)



| Part nr. | Dimensions |     |     |      | Weight            | NEN 13706-grade E23 |                                 |                                 |
|----------|------------|-----|-----|------|-------------------|---------------------|---------------------------------|---------------------------------|
|          | A          | B   | C   | D    |                   | Surface             | Ix                              | Iy                              |
|          |            |     |     |      | kg/m <sup>1</sup> | mm <sup>2</sup>     | 10 <sup>4</sup> mm <sup>4</sup> | 10 <sup>4</sup> mm <sup>4</sup> |
| 50001    | 15         | 10  | 2,5 |      | 0,10              | 56                  |                                 |                                 |
| 50011    | 20         | 15  | 2,5 |      | 0,15              | 81                  |                                 |                                 |
| 50021    | 25         | 25  | 3   |      | 0,25              | 141                 | 0,80                            | 0,80                            |
| 50041    | 40         | 40  | 3   |      | 0,42              | 231                 | 3,54                            | 3,54                            |
| 50051    | 50         | 50  | 3   |      | 0,54              | 290                 | 7,07                            | 7,07                            |
| 50052    | 50         | 50  | 5   |      | 0,84              | 466                 | 11,00                           | 11,00                           |
| 50061    | 60         | 40  | 3   |      | 0,52              | 290                 | 10,91                           | 3,98                            |
| 50062    | 60         | 60  | 3   |      | 0,63              | 351                 | 12,44                           | 12,44                           |
| 50081    | 80         | 50  | 3   |      | 0,68              | 380                 | 25,80                           | 8,09                            |
| 50082    | 80         | 80  | 3   |      | 0,85              | 470                 | 30,90                           | 30,90                           |
| 50091    | 90         | 90  | 3   | R=37 | 0,86              | 478                 | 38,28                           | 38,28                           |
| 50101    | 100        | 60  | 3   |      | 0,85              | 470                 | 50,38                           | 14,35                           |
| 50102    | 100        | 100 | 3   |      | 1,06              | 590                 | 59,50                           | 59,50                           |
| 50121    | 120        | 60  | 3   |      | 0,96              | 531                 | 82,53                           | 14,98                           |

U-PROFILES

Illustration (AxBxC)



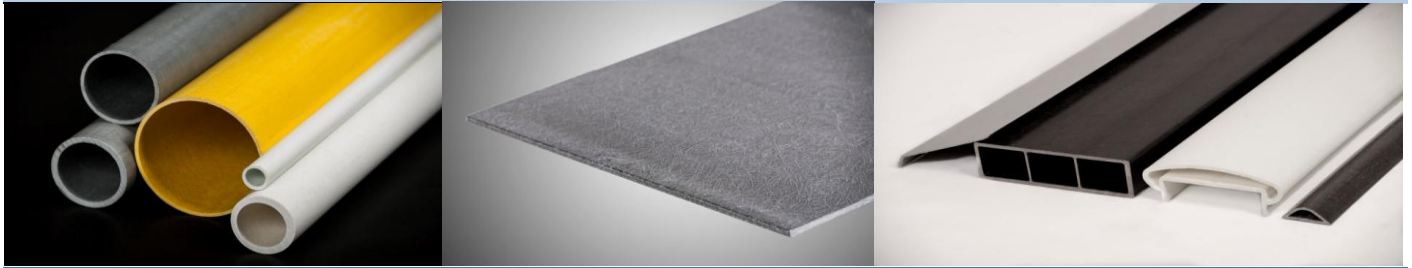
| Part nr.  | Dimensions |    |    |     | Weight            | NEN 13706-grade E23 |                                 |                                 |
|-----------|------------|----|----|-----|-------------------|---------------------|---------------------------------|---------------------------------|
|           | A          | B  | C  | D   |                   | Surface             | Ix                              | Iy                              |
|           |            |    |    |     | kg/m <sup>1</sup> | mm <sup>2</sup>     | 10 <sup>4</sup> mm <sup>4</sup> | 10 <sup>4</sup> mm <sup>4</sup> |
| 51001     | 25         | 40 | 20 | 2,5 | 0,35              | 197                 | 2,67                            | 1,88                            |
| 51011     | 57         | 30 | 30 | 3,5 | 0,69              | 383                 | 18,52                           | 3,22                            |
| 51021     | 70         | 30 | 30 | 4   | 0,88              | 488                 | 33,61                           | 3,79                            |
| 51025     | 84         | 30 | 30 | 4   | 0,98              | 544                 | 52,90                           | 4,10                            |
| 51031     | 100        | 40 | 40 | 5   | 1,53              | 848                 | 120,10                          | 11,70                           |
| 51041     | 140        | 60 | 60 | 5   | 2,34              | 1298                | 378,00                          | 43,00                           |
| 51041 UNP | 140 (UNP)  | 60 | 60 | var | 2,83              | 1573                | 487,00                          | 48,69                           |
| 51050     | 200        | 80 | 80 | 8   | 4,95              | 2763                | 1602,00                         | 155,00                          |

SQUARE TUBE-PROFILES

Illustration (AxBxC)



| Part nr. | Dimensions |     |       |   | Weight            | NEN 13706-grade E23 |                                 |                                 |
|----------|------------|-----|-------|---|-------------------|---------------------|---------------------------------|---------------------------------|
|          | A          | B   | C     | D |                   | Surface             | Ix                              | Iy                              |
|          |            |     |       |   | kg/m <sup>1</sup> | mm <sup>2</sup>     | 10 <sup>4</sup> mm <sup>4</sup> | 10 <sup>4</sup> mm <sup>4</sup> |
| 52020    | 20         | 20  | Solid |   | 0,76              | 398                 | 1,30                            | 1,30                            |
| 52918    | 38         | 38  | 4     |   | 0,99              | 549                 | 10,63                           | 10,63                           |
| 52041    | 40         | 40  | 3     |   | 0,80              | 444                 | 10,20                           | 10,20                           |
| 22010    | 40         | 40  | 5     |   | 1,26              | 700                 | 14,58                           | 14,58                           |
| 52051    | 50         | 50  | 3     |   | 1,02              | 564                 | 20,85                           | 20,85                           |
| 52054    | 50         | 50  | 4     |   | 1,36              | 754                 | 26,20                           | 26,20                           |
| 52052    | 50         | 50  | 5     |   | 1,62              | 900                 | 30,75                           | 30,75                           |
| 52060    | 60         | 40  | 5     |   | 1,71              | 888                 | 20,80                           | 40,80                           |
| 52070    | 70         | 70  | 5     |   | 2,32              | 1290                | 92,10                           | 92,10                           |
| 52075    | 70         | 70  | 7     |   | 3,16              | 1754                | 118,10                          | 118,10                          |
| 52145    | 80         | 40  | 5     |   | 1,98              | 1100                | 26,90                           | 84,90                           |
| 52146    | 80         | 40  | 4     |   | 1,63              | 904                 | 23,00                           | 71,10                           |
| 52150    | 80         | 45  | 4,5   |   | 1,87              | 1041                | 33,15                           | 84,63                           |
| 52053    | 100        | 100 | 6     |   | 4,02              | 2235                | 333,59                          | 333,59                          |
| 52148    | 120        | 30  | 3     |   | 1,55              | 860                 | 13,90                           | 135,70                          |
| 52148    | 120        | 30  | 5     |   | 2,51              | 1396                | 13,90                           | 135,70                          |
| 52151    | 150        | 11  | 2,75  |   | 1,59              | 883                 | 1,46                            | 171,09                          |
| 52201    | 200        | 11  | 2,75  |   | 2,08              | 1158                | 1,95                            | 396,09                          |
| 52251    | 250        | 11  | 2,75  |   | 2,58              | 1433                | 2,43                            | 762,38                          |



SOLID FLAT BARS / SHEET

Illustration (AxBxC)



| Part nr. | Dimensions |    |   | Weight<br>kg/m <sup>1</sup> | NEN 13706-grade E23        |                                       |                                       |
|----------|------------|----|---|-----------------------------|----------------------------|---------------------------------------|---------------------------------------|
|          | A          | B  | C |                             | Surface<br>mm <sup>2</sup> | Ix<br>10 <sup>4</sup> mm <sup>4</sup> | Iy<br>10 <sup>4</sup> mm <sup>4</sup> |
| 53050    | 50         | 6  |   | 0,54                        | 298                        | 0,10                                  | 6,30                                  |
| 53151    | 150        | 11 |   | 2,96                        | 1646                       | 1,66                                  | 309,38                                |
| 53201    | 200        | 11 |   | 3,95                        | 2196                       | 2,22                                  | 733,33                                |
| 53251    | 250        | 11 |   | 4,94                        | 2746                       | 2,77                                  | 1432,29                               |
| 53381    | 750        | 6  |   | 8,10                        | 4500                       | 1,42                                  | 21093,00                              |

ROUND TUBE-PROFILES

Illustration (AxB)



| Part nr. | Dimensions |      |      | Weight<br>kg/m <sup>1</sup> | NEN 13706-grade E23        |                                       |                                       |
|----------|------------|------|------|-----------------------------|----------------------------|---------------------------------------|---------------------------------------|
|          | O.D.       | I.D. | W.T. |                             | Surface<br>mm <sup>2</sup> | Ix<br>10 <sup>4</sup> mm <sup>4</sup> | Iy<br>10 <sup>4</sup> mm <sup>4</sup> |
| 54210    | 25         | 18   | 3,5  | 0,43                        | 236,00                     | 1,40                                  | 1,40                                  |
| 54204    | 34,5       | 29,5 | 2,5  | 0,45                        | 247,72                     | 3,09                                  | 3,09                                  |
| 54801    | 80         | 75   | 2,5  | 1,10                        | 609,46                     | 45,80                                 | 45,80                                 |

SOLID ROUND BARS

Illustration (A)



| Part nr. | Dimensions | Weight<br>kg/m <sup>1</sup> | NEN 13706-grade E23        |                                       |                                       |
|----------|------------|-----------------------------|----------------------------|---------------------------------------|---------------------------------------|
|          | A          |                             | Surface<br>mm <sup>2</sup> | Ix<br>10 <sup>4</sup> mm <sup>4</sup> | Iy<br>10 <sup>4</sup> mm <sup>4</sup> |
| 55007    | 7          | 0,07                        | 38                         | 0,01                                  | 0,01                                  |
| 55015    | 13         | 0,24                        | 133                        | 0,14                                  | 0,14                                  |
| 55016    | 16         | 0,36                        | 201                        | 0,32                                  | 0,32                                  |
| 55018    | 18         | 0,46                        | 255                        | 0,52                                  | 0,52                                  |
| 55020    | 20         | 0,57                        | 315                        | 0,79                                  | 0,79                                  |
| 55025    | 25         | 0,88                        | 491                        | 1,90                                  | 1,90                                  |
| 55034    | 34,5       | 1,68                        | 935                        | 7,00                                  | 7,00                                  |

SPECIAL PROFILES

Illustration (AxBxC)

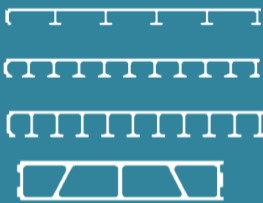


| Part nr.                             | Dimensions |     |     |        | Weight<br>kg/m <sup>1</sup> | NEN 13706-grade E23        |                                       |                                       |
|--------------------------------------|------------|-----|-----|--------|-----------------------------|----------------------------|---------------------------------------|---------------------------------------|
|                                      | A          | B   | C   | D-E    |                             | Surface<br>mm <sup>2</sup> | Ix<br>10 <sup>4</sup> mm <sup>4</sup> | Iy<br>10 <sup>4</sup> mm <sup>4</sup> |
| 23000                                | 55         | 96  | 40  | 24-6/4 | 1,1                         | 613                        | 22,44                                 | 38,22                                 |
| 23010                                | 79         | 111 | 20  | 15-3   | 0,787                       | 425                        | 30,09                                 | 38,66                                 |
| 21420                                | 145        | 63  | 5   | 4      | 3,34                        | 1848                       |                                       |                                       |
| 57151                                | 47         | 19  | 3   |        | 0,52                        | 290                        | 1,09                                  | 4,75                                  |
| Triangle                             |            |     |     |        |                             |                            |                                       |                                       |
| 52048                                | 50         | 20  | 5   |        | 0,82                        | 457                        | 2,34                                  | 10,50                                 |
| 51065                                | 175        | 55  | 5   |        | 4,46                        | 2481                       | 121,70                                | 788,00                                |
| 21415                                | 208        | 276 | 6   |        | 5,88                        | 3270                       |                                       |                                       |
| stairtred according to building code |            |     |     |        |                             |                            |                                       |                                       |
| 60200                                | 145        | 200 | 100 | 3      | 2,55                        | 1416                       | 299,00                                | 925,00                                |
| Gutter                               |            |     |     |        |                             |                            |                                       |                                       |
| 60201                                | 80         |     |     | 3      |                             |                            |                                       |                                       |
| Gutter assembly clip                 |            |     |     |        |                             |                            |                                       |                                       |
| 61001                                | 70         | 80  |     |        | 0,80                        | 425                        |                                       |                                       |
| Roof edge                            |            |     |     |        |                             |                            |                                       |                                       |

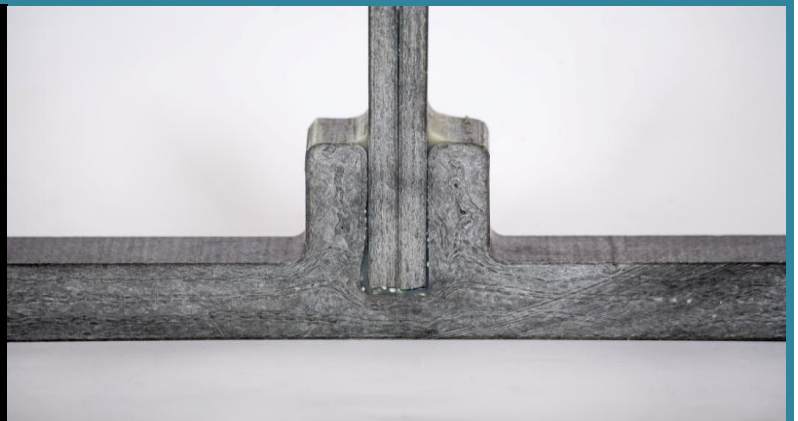
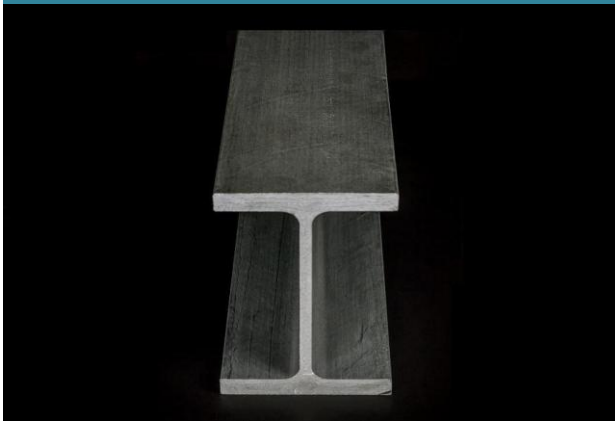


FLOORING / BRIDGE DECKS

Illustration (AxBxC)



| Part nr. | Dimensions |    |   | NEN 13706-grade E23         |                             |                            |   |   |
|----------|------------|----|---|-----------------------------|-----------------------------|----------------------------|---|---|
|          | A          | B  | C | Weight<br>kg/m <sup>2</sup> | Weight<br>kg/m <sup>1</sup> | Surface<br>mm <sup>2</sup> | I <sub>x</sub><br>10 <sup>4</sup> mm <sup>4</sup> | I <sub>y</sub><br>10 <sup>4</sup> mm <sup>4</sup> |
| 57000    | 500        | 35 | 5 | 12,88                       | 6,44                        | 3579                       | 46,7  |   |
| 57070    | 500        | 40 | 5 | 20                          | 10                          | 5571                       | 123,82  |   |
| 57040    | 500        | 55 | 5 | 22,4                        | 11,2                        | 6237                       | 270   |   |
| 57060    | 400        | 85 | 9 | 42                          | 16,8                        | 8951                       | 1020  |   |



I - PROFILES  
Illustration (AxBxC)



| Part nr. | Dimensions |     |    |    | NEN 13706-grade E23         |                            |   |   |  |
|----------|------------|-----|----|----|-----------------------------|----------------------------|---|---|--|
|          | A          | B   | C  | D  | Weight<br>kg/m <sup>1</sup> | Surface<br>mm <sup>2</sup> | I <sub>x</sub><br>10 <sup>4</sup> mm <sup>4</sup> | I <sub>y</sub><br>10 <sup>4</sup> mm <sup>4</sup> |  |
| 57200    | 150        | 75  | 6  | 6  | 3,20                        | 1776                       | 619,91  | 424,91  |  |
| 57300    | 240        | 150 | 20 | 10 | 14,8                        | 8213                       | 8143  | 1124  |  |
| 57400    | 400        | 300 | 26 | 14 | 42,90                       | 23444                      | on request  |   |  |



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SYSTEM PROFILES

Illustration (AxBxC)



| Part nr.            | Dimensions |    |   |   | Weight            | NEN 13706-grade E23 |                                 |                                 |
|---------------------|------------|----|---|---|-------------------|---------------------|---------------------------------|---------------------------------|
|                     | A          | B  | C | D |                   | Surface             | Ix                              | Iy                              |
|                     |            |    |   |   | kg/m <sup>1</sup> | mm <sup>2</sup>     | 10 <sup>4</sup> mm <sup>4</sup> | 10 <sup>4</sup> mm <sup>4</sup> |
| 22010<br>A          | 40         | 40 | 5 |   | 1,26              | 700                 | 14,60                           | 14,60                           |
| 22020<br>B, 1x lug  | 40         | 40 | 5 |   | 1,52              | 850                 | 30,48                           | 18,23                           |
| 22030<br>C1, 2x lug | 40         | 40 | 5 |   | 1,80              | 1000                | 32,16                           | 32,20                           |
| 22035<br>C2, 2x lug | 40         | 40 | 5 |   | 1,80              | 1000                | 37,63                           | 37,58                           |
| 22040<br>C3, 2x lug | 40         | 40 | 5 |   | 1,80              | 1000                | 21,00                           | 52,74                           |

| Mechanical properties                   |                   | NEN 13706-grade E23 |                          |
|---|-------------------|---------------------|--------------------------|
| ITEM                                    | Fiber orientation | UNIT                | E23                      |
| Modulus of Elasticity                   | axial             | Gpa                 | 23                       |
| -                                       | transverse        | Gpa                 | 7                        |
| Tensile strength                        | axial             | Mpa                 | 240                      |
| -                                       | transverse        | Mpa                 | 50                       |
| Pin bearing strength                    | axial             | Mpa                 | 150                      |
| -                                       | transverse        | Mpa                 | 70                       |
| Bending strength                        | axial             | Mpa                 | 240                      |
| -                                       | transverse        | Mpa                 | 100                      |
| Inter laminate shear strength           | axial             | Mpa                 | 25                       |
|   | transverse        | Mpa                 | 50                       |
| Physical properties                     |                   | UNIT                | VALUE                    |
| Density                                 |                   | kg/m <sup>3</sup>   | 1800                     |
| Barcol hardness                         |                   | BARCOL              | 50                       |
| Water absorbtion                        |                   | weight%             | 0,007                    |
| Linear coefficient of thermal expansion |                   | m/m/°C              | 10-16 x 10 <sup>-6</sup> |
| Lambda λ thermal conductivity           |                   | W/m.°K              | 0,25 - 0,35              |
| Temperature index                       |                   | °C                  | 180                      |

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