

## [Pipes for piping / Manufacturing range]

Material: SUS304, SUS304L, SUS316, SUS316L

| Nominal diameter |         | Outside diameter (mm) |        | Wall thickness (mm) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
|------------------|---------|-----------------------|--------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|
| A                | B (NPS) | JIS                   | ASTM   | 1.0                 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20≤ |
| 6                | 1/8     | 10.5                  | 10.29  | ■                   | ■   |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 8                | 1/4     | 13.8                  | 13.72  | ■                   | ■   | ■   |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 10               | 3/8     | 17.3                  | 17.15  | ■                   | ■   | ■   | ■   |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 15               | 1/2     | 21.7                  | 21.34  | ■                   | ■   | ■   | ■   | ■   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 20               | 3/4     | 27.2                  | 26.67  | ■                   | ■   | ■   | ■   | ■   | ■   |     |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 25               | 1       | 34.0                  | 33.40  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   |     |     |      |      |      |      |      |      |      |      |      |      |     |
| 32               | 1-1/4   | 42.7                  | 42.16  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   |     |      |      |      |      |      |      |      |      |      |      |     |
| 40               | 1-1/2   | 48.6                  | 48.26  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   |      |      |      |      |      |      |      |      |      |      |     |
| 50               | 2       | 60.5                  | 60.33  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    |      |      |      |      |      |      |      |      |      |     |
| 65               | 2-1/2   | 76.3                  | 73.03  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    |      |      |      |      |      |      |      |      |     |
| 80               | 3       | 89.1                  | 88.90  | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    |      |      |      |      |      |      |      |     |
| 90               | 3-1/2   | 101.6                 | 101.60 | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    |      |      |      |      |      |      |     |
| 100              | 4       | 114.3                 | 114.30 | ■                   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    |      |      |      |      |      |     |
| 125              | 5       | 139.8                 | 141.30 |                     |     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    | ■    |      |      |      |      |     |
| 150              | 6       | 165.2                 | 168.28 |                     |     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    | ■    | ■    |      |      |      |     |
| 200              | 8       | 216.3                 | 219.08 |                     |     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    |      |      |     |
| 250              | 10      | 267.4                 | 273.05 |                     |     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    |      |     |
| 300              | 12      | 318.5                 | 323.85 |                     |     | ■   | ■   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    | ■    |     |

Available in Japan
  To be consulted
  Manufacturable in Thailand

Please feel free to consult with us regarding manufacturing outside of the above-mentioned range.

For materials other than the above, the manufacturing range may differ, so please contact us for further inquiries.



Oita Petro Chemical Complex (Source: Showa Denko K.K.)



LNG plant in Malaysia (Source: JGC Corporation)



## [Large-diameter pipes / Manufacturing range]

| Nominal diameter |         | Outside diameter (mm) | Wall thickness (mm) |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|------------------|---------|-----------------------|---------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|
| A                | B (NPS) |                       | 4.0                 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | ≤ |  |  |
| 350              | 14      | 355.6                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 400              | 16      | 406.4                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 450              | 18      | 457.2                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 500              | 20      | 508.0                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 550              | 22      | 558.8                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 600              | 24      | 609.6                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 650              | 26      | 660.4                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 700              | 28      | 711.2                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 750              | 30      | 762.0                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 800              | 32      | 812.8                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 850              | 34      | 863.6                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 900              | 36      | 914.4                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                  | 38      | 965.2                 |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 1000             | 40      | 1016.0                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                  | 42      | 1066.8                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 1100             | 44      | 1117.6                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                  | 46      | 1168.4                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 1200             | 48      | 1219.2                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                  | 50      | 1270.0                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
| 1500             | 60      | 1524.0                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                  | 66      | 1676.4                |                     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |

Available to 12m
  Available to 6m
  To be consulted

Depending on dimensions, manufacturing may require two seams.  
Please consult us for dimensions outside the range mentioned above.



Nuclear power generation



LNG carrying vessel (Source: Kawasaki Heavy Industries, Ltd.)



LNG storage facility



Caustic soda production facility  
(Source: Asahi Kasei Corporation)



## [Tubes for boiler & heat exchanger / Manufacturing range]

Material: SUS304, SUS304L, SUS316, SUS316L

| Wall thickness (mm)<br>Outside Diameter (mm) | 0.8 | 1.0 | 1.2 | 1.5 | 1.6 | 1.65 | 1.7 | 2.0 | 2.1 | 2.2 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 |
|----------------------------------------------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 15.90                                        | ●   |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| 19.00                                        |     | ○   | ●○  | ●○  | ○   | ○    | ○   | ○   | ○   |     |     |     |     |     |     |
| 19.05                                        |     | ●○  | ●○  | ●○  | ○   | ○    | ○   | ○   | ○   |     |     |     |     |     |     |
| 21.34                                        |     |     | ○   | ○   | ○   | ○    | ○   | ○   | ●○  |     |     |     |     |     |     |
| 21.70                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ●○  | ●○  | ○   |     |     |     |     |     |
| 25.40                                        | ●   |     | ●○  | ○   | ○   | ●○   | ○   | ○   | ○   | ○   | ○   |     |     |     |     |
| 26.67                                        |     |     | ○   | ○   | ○   | ○    | ○   | ○   | ●○  | ○   | ○   |     |     |     |     |
| 27.20                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ●○  | ○   | ○   | ○   | ○   |     |     |     |
| 28.58                                        |     | ●   | ●   |     |     |      |     |     |     |     |     |     |     |     |     |
| 31.75                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 31.80                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 34.00                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 35.00                                        |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| 38.10                                        |     |     | ●○  | ○   | ○   | ●○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 41.00/41.30                                  |     |     |     | ●   |     |      |     |     |     |     |     |     |     |     |     |
| 42.70                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 45.00                                        |     |     | ○   | ○   | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 48.60                                        |     |     | ○   | ●○  | ○   | ○    | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 50.80                                        |     |     | ○   | ○   | ○   | ●○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   |     |     |
| 63.50                                        |     |     |     |     |     | ●    |     |     |     |     |     |     |     |     |     |
| 76.20                                        |     |     |     |     |     | ●    |     |     |     |     |     |     |     |     |     |
| 88.90                                        |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| 101.60                                       |     |     |     |     |     |      |     |     | ●   |     |     |     |     |     |     |
| 114.30                                       |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |

○ Bead rolling available (Chigasaki)  
● Bead rolling available (Thailand)

Available in Japan

Available in Thailand

Thai BA available

Please feel free to consult with us regarding manufacturing outside of the above-mentioned range.

For materials other than the above, the manufacturing range may differ, so please contact us for further inquiries.

※ Bead Rolling is a Cold-Working process conducted on both internal and external surfaces of the pipes & tubes to make weld beads flat and smooth, achieving improved and consistent metal structure and mechanical properties as well as improved shape and size accuracy. (Suitable for tubes used for heat-exchangers)



Stainless steel tubes for heat exchanger  
(Source: Kansai Kagaku Kikai Seisakusho K.K.)

## [Water pipes / Manufacturing range]

Max. length: 6 m

| Nominal diameter | Outside diameter (mm) | Wall thickness (mm) | Unit Weight (SUS304) |       |
|------------------|-----------------------|---------------------|----------------------|-------|
|                  |                       |                     | kg/m                 | kg/pc |
| 13Su             | 15.88                 | 0.8                 | 0.301                | 1.20  |
| 20Su             | 22.22                 | 1.0                 | 0.529                | 2.12  |
| 25Su             | 28.58                 | 1.0                 | 0.687                | 2.75  |
| 30Su             | 34.0                  | 1.2                 | 0.980                | 3.92  |
| 40Su             | 42.7                  | 1.2                 | 1.24                 | 4.96  |
| 50Su             | 48.6                  | 1.2                 | 1.42                 | 5.68  |
| 60Su             | 60.5                  | 1.5                 | 2.20                 | 8.80  |
| 75Su             | 76.3                  | 1.5                 | 2.79                 | 11.2  |
| 80Su             | 89.1                  | 2.0                 | 4.34                 | 17.4  |
| 100Su            | 114.3                 | 2.0                 | 5.59                 | 22.4  |

## [Pipes for auto parts and others / Manufacturing range]

Material: SUS304, SUS304L, SUS316, SUS316L

| Outside Diameter (mm) \ Wall thickness (mm) | 0.4       | 0.5       | 0.6       | 0.7       | 0.8       | 1.0       | 1.2       | 1.5       | 1.6       | 1.7       | 2.0       |
|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 6.35                                        | Available | Available | Available | Available | Available | Available |           |           |           |           |           |
| 7.00                                        | Available | Available | Available | Available | Available | Available |           |           |           |           |           |
| 8.00                                        | Available | Available | Available | Available | Available | Available |           |           |           |           |           |
| 9.00                                        | Available | Available | Available | Available | Available | Available |           |           |           |           |           |
| 10.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 12.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 12.70                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 13.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 14.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available |           |           |
| 16.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available |           |           |
| 17.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available |           |           |
| 18.00                                       | Available | Available | Available | Available | Available | Available | Available | Available | Available |           |           |
| 19.00                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 20.00                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 21.70                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 22.00                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 22.20                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 25.40                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 27.80                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 28.60                                       |           |           | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| 32.00                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 35.00                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 38.10                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 42.00                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 42.70                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 44.50                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 50.80                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |
| 54.00                                       |           |           |           | Available | Available | Available | Available | Available | Available | Available | Available |

Within the possible manufacturing range in Thailand, for outer diameters of 38.1 mm or below, BA (Bright Annealed) processing is also possible. Please feel free to consult us for dimensions outside the above manufacturing range.

For materials other than the ones listed above, the manufacturing range may differ, so please contact us for inquiries.



Available



Available in Thailand



EGR pipe



EGR pipe



## [JIS G 3459 Stainless steel pipes for piping / Weight and size]

| Nominal diameter |       | Outside diameter (mm) | Nominal thickness   |       |        |                     |        |        |                     |       |        |                     |       |        |                     |        |        |       |        |        |       |        |
|------------------|-------|-----------------------|---------------------|-------|--------|---------------------|--------|--------|---------------------|-------|--------|---------------------|-------|--------|---------------------|--------|--------|-------|--------|--------|-------|--------|
| A                | B     |                       | Schedule 5S         |       |        | Schedule 10S        |        |        | Schedule 20S        |       |        | Schedule 40         |       |        | Schedule 80         |        |        |       |        |        |       |        |
|                  |       |                       | Weight (kg/m)       |       |        | Weight (kg/m)       |        |        | Weight (kg/m)       |       |        | Weight (kg/m)       |       |        | Weight (kg/m)       |        |        |       |        |        |       |        |
|                  |       |                       | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type   |        | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type   |        |       |        |        |       |        |
|                  |       |                       |                     | 304   | 309S   |                     | 329J3L | 304    |                     | 309S  | 329J3L |                     | 304   | 309S   |                     | 329J3L | 304    | 309S  | 329J3L | 304    | 309S  | 329J3L |
|                  |       |                       | 304H                | 310S  | 329J4L | 304H                | 310S   | 329J4L | 304H                | 310S  | 329J4L | 304H                | 310S  | 329J4L | 304H                | 310S   | 329J4L | 304H  | 310S   | 329J4L |       |        |
|                  |       |                       | 304L                | 316   | (64)   | 304L                | 316    | (64)   | 304L                | 316   | (64)   | 304L                | 316   | (64)   | 304L                | 316    | (64)   | 304L  | 316    | (64)   |       |        |
|                  |       |                       | 321                 | 316L  |        | 321                 | 316L   |        | 321                 | 316L  |        | 321                 | 316L  |        | 321                 | 316L   |        | 321   | 316L   |        |       |        |
|                  |       |                       | 317                 |       |        | 317                 |        |        | 317                 |       |        | 317                 |       |        | 317                 |        |        | 317   |        |        |       |        |
|                  |       |                       | 317L                |       |        | 317L                |        |        | 317L                |       |        | 317L                |       |        | 317L                |        |        | 317L  |        |        |       |        |
|                  |       |                       | 347                 |       |        | 347                 |        |        | 347                 |       |        | 347                 |       |        | 347                 |        |        | 347   |        |        |       |        |
| 6                | 1/8   | 10.5                  | 1.0                 | 0.237 | 0.238  | 0.233               | 1.2    | 0.278  | 0.280               | 0.273 | 1.5    | 0.336               | 0.338 | 0.331  | 1.7                 | 0.373  | 0.375  | 0.367 | 2.4    | 0.484  | 0.487 | 0.476  |
| 8                | 1/4   | 13.8                  | 1.2                 | 0.377 | 0.379  | 0.370               | 1.65   | 0.499  | 0.503               | 0.491 | 2.0    | 0.588               | 0.592 | 0.578  | 2.2                 | 0.636  | 0.640  | 0.625 | 3.0    | 0.807  | 0.812 | 0.794  |
| 10               | 3/8   | 17.3                  | 1.2                 | 0.481 | 0.484  | 0.473               | 1.65   | 0.643  | 0.647               | 0.633 | 2.0    | 0.762               | 0.767 | 0.750  | 2.3                 | 0.859  | 0.865  | 0.845 | 3.2    | 1.12   | 1.13  | 1.11   |
| 15               | 1/2   | 21.7                  | 1.65                | 0.824 | 0.829  | 0.811               | 2.1    | 1.03   | 1.03                | 1.01  | 2.5    | 1.20                | 1.20  | 1.18   | 2.8                 | 1.32   | 1.33   | 1.30  | 3.7    | 1.66   | 1.67  | 1.63   |
| 20               | 3/4   | 27.2                  | 1.65                | 1.05  | 1.06   | 1.03                | 2.1    | 1.31   | 1.32                | 1.29  | 2.5    | 1.54                | 1.55  | 1.51   | 2.9                 | 1.76   | 1.77   | 1.73  | 3.9    | 2.26   | 2.28  | 2.23   |
| 25               | 1     | 34.0                  | 1.65                | 1.33  | 1.34   | 1.31                | 2.8    | 2.18   | 2.19                | 2.14  | 3.0    | 2.32                | 2.33  | 2.28   | 3.4                 | 2.59   | 2.61   | 2.55  | 4.5    | 3.31   | 3.33  | 3.25   |
| 32               | 1 1/4 | 42.7                  | 1.65                | 1.69  | 1.70   | 1.66                | 2.8    | 2.78   | 2.80                | 2.74  | 3.0    | 2.97                | 2.99  | 2.92   | 3.6                 | 3.51   | 3.53   | 3.45  | 4.9    | 4.61   | 4.64  | 4.54   |
| 40               | 1 1/2 | 48.6                  | 1.65                | 1.93  | 1.94   | 1.90                | 2.8    | 3.19   | 3.21                | 3.14  | 3.0    | 3.41                | 3.43  | 3.35   | 3.7                 | 4.14   | 4.16   | 4.07  | 5.1    | 5.53   | 5.56  | 5.44   |
| 50               | 2     | 60.5                  | 1.65                | 2.42  | 2.43   | 2.38                | 2.8    | 4.02   | 4.05                | 3.96  | 3.5    | 4.97                | 5.00  | 4.89   | 3.9                 | 5.50   | 5.53   | 5.41  | 5.5    | 7.54   | 7.58  | 7.41   |
| 65               | 2 1/2 | 76.3                  | 2.1                 | 3.88  | 3.91   | 3.82                | 3.0    | 5.48   | 5.51                | 5.39  | 3.5    | 6.35                | 6.39  | 6.24   | 5.2                 | 9.21   | 9.27   | 9.06  | 7.0    | 12.1   | 12.2  | 11.9   |
| 80               | 3     | 89.1                  | 2.1                 | 4.55  | 4.58   | 4.48                | 3.0    | 6.43   | 6.48                | 6.33  | 4.0    | 8.48                | 8.53  | 8.34   | 5.5                 | 11.5   | 11.5   | 11.3  | 7.6    | 15.4   | 15.5  | 15.2   |
| 90               | 3 1/2 | 101.6                 | 2.1                 | 5.20  | 5.24   | 5.12                | 3.0    | 7.37   | 7.42                | 7.25  | 4.0    | 9.72                | 9.79  | 9.56   | 5.7                 | 13.6   | 13.7   | 13.4  | 8.1    | 18.9   | 19.0  | 18.6   |
| 100              | 4     | 114.3                 | 2.1                 | 5.87  | 5.91   | 5.77                | 3.0    | 8.32   | 8.37                | 8.18  | 4.0    | 11.0                | 11.1  | 10.8   | 6.0                 | 16.2   | 16.3   | 15.9  | 8.6    | 22.6   | 22.8  | 22.3   |
| 125              | 5     | 139.8                 | 2.8                 | 9.56  | 9.62   | 9.40                | 3.4    | 11.6   | 11.6                | 11.4  | 5.0    | 16.8                | 16.9  | 16.5   | 6.6                 | 21.9   | 22.0   | 21.5  | 9.5    | 30.8   | 31.0  | 30.3   |
| 150              | 6     | 165.2                 | 2.8                 | 11.3  | 11.4   | 11.1                | 3.4    | 13.7   | 13.8                | 13.5  | 5.0    | 20.0                | 20.1  | 19.6   | 7.1                 | 28.0   | 28.1   | 27.5  | 11.0   | 42.3   | 42.5  | 41.6   |
| 200              | 8     | 216.3                 | 2.8                 | 14.9  | 15.0   | 14.6                | 4.0    | 21.2   | 21.3                | 20.8  | 6.5    | 34.0                | 34.2  | 33.4   | 8.2                 | 42.5   | 42.8   | 41.8  | 12.7   | 64.4   | 64.8  | 63.4   |
| 250              | 10    | 267.4                 | 3.4                 | 22.4  | 22.5   | 22.0                | 4.0    | 26.2   | 26.4                | 25.8  | 6.5    | 42.2                | 42.5  | 41.5   | 9.3                 | 59.8   | 60.2   | 58.8  | 15.1   | 94.9   | 95.5  | 93.3   |
| 300              | 12    | 318.5                 | 4.0                 | 31.3  | 31.5   | 30.8                | 4.5    | 35.2   | 35.4                | 34.6  | 6.5    | 50.5                | 50.8  | 49.7   | 10.3                | 79.1   | 79.6   | 77.8  | 17.4   | 131    | 131   | 128    |
| 350              | 14    | 355.6                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 11.1                | 95.3   | 95.9   | 93.7  | 19.0   | 159    | 160   | 157    |
| 400              | 16    | 406.4                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 12.7                | 125    | 125    | 122   | 21.4   | 205    | 207   | 202    |
| 450              | 18    | 457.2                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 14.3                | 158    | 159    | 155   | 23.8   | 257    | 259   | 253    |
| 500              | 20    | 508.0                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 15.1                | 185    | 187    | 182   | 26.2   | 314    | 316   | 309    |
| 550              | 22    | 558.8                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 15.9                | 215    | 216    | 211   | 28.6   | 378    | 380   | 372    |
| 600              | 24    | 609.6                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 17.5                | 258    | 260    | 254   | 31.0   | 447    | 450   | 439    |
| 650              | 26    | 660.4                 | -                   | -     | -      | -                   | -      | -      | -                   | -     | -      | -                   | -     | -      | 18.9                | 302    | 304    | 297   | 34.0   | 531    | 534   | 522    |

## [JIS G 3459 Stainless steel pipes for general service / Weight and size]

| Nominal diameter |       | Outside diameter (mm) | Nominal thickness   |       |        |                     |        |        |                     |       |        |                     |       |        |                     |        |        |       |        |        |       |        |
|------------------|-------|-----------------------|---------------------|-------|--------|---------------------|--------|--------|---------------------|-------|--------|---------------------|-------|--------|---------------------|--------|--------|-------|--------|--------|-------|--------|
| A                | B     |                       | Schedule 5S         |       |        | Schedule 10S        |        |        | Schedule 20S        |       |        | Schedule 40         |       |        | Schedule 80         |        |        |       |        |        |       |        |
|                  |       |                       | Weight (kg/m)       |       |        | Weight (kg/m)       |        |        | Weight (kg/m)       |       |        | Weight (kg/m)       |       |        | Weight (kg/m)       |        |        |       |        |        |       |        |
|                  |       |                       | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type   |        | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type  |        | Wall thickness (mm) | Type   |        |       |        |        |       |        |
|                  |       |                       |                     | 304   | 309S   |                     | 329J3L | 304    |                     | 309S  | 329J3L |                     | 304   | 309S   |                     | 329J3L | 304    | 309S  | 329J3L | 304    | 309S  | 329J3L |
|                  |       |                       | 304L                | 310S  | 329J4L | 304L                | 310S   | 329J4L | 304L                | 310S  | 329J4L | 304L                | 310S  | 329J4L | 304L                | 310S   | 329J4L | 304L  | 310S   | 329J4L |       |        |
|                  |       |                       | 321                 | 316   | (64)   | 321                 | 316    | (64)   | 321                 | 316   | (64)   | 321                 | 316   | (64)   | 321                 | 316    | (64)   | 321   | 316    | (64)   |       |        |
|                  |       |                       |                     | 316L  |        |                     | 316L   |        |                     | 316L  |        |                     | 316L  |        |                     | 316L   |        |       | 316L   |        |       |        |
|                  |       |                       |                     | 317   |        |                     | 317    |        |                     | 317   |        |                     | 317   |        |                     | 317    |        |       | 317    |        |       |        |
|                  |       |                       |                     | 317L  |        |                     | 317L   |        |                     | 317L  |        |                     | 317L  |        |                     | 317L   |        |       | 317L   |        |       |        |
|                  |       |                       |                     | 347   |        |                     | 347    |        |                     | 347   |        |                     | 347   |        |                     | 347    |        |       | 347    |        |       |        |
| 6                | 1/8   | 10.5                  | 1.0                 | 0.237 | 0.238  | 0.233               | 1.2    | 0.278  | 0.280               | 0.273 | 1.5    | 0.336               | 0.338 | 0.331  | 2.0                 | 0.423  | 0.426  | 0.417 | 2.5    | 0.498  | 0.501 | 0.490  |
| 8                | 1/4   | 13.8                  | 1.2                 | 0.377 | 0.379  | 0.370               | 1.5    | 0.460  | 0.463               | 0.452 | 2.0    | 0.588               | 0.592 | 0.578  | 2.5                 | 0.704  | 0.708  | 0.692 | 3.0    | 0.807  | 0.812 | 0.794  |
| 10               | 3/8   | 17.3                  | 1.2                 | 0.481 | 0.484  | 0.473               | 2.0    | 0.762  | 0.767               | 0.750 | 2.0    | 0.762               | 0.767 | 0.750  | 2.5                 | 0.922  | 0.928  | 0.907 | 3.5    | 1.20   | 1.21  | 1.18   |
| 15               | 1/2   | 21.7                  | 1.5                 | 0.755 | 0.760  | 0.742               | 2.0    | 0.981  | 0.988               | 0.965 | 2.5    | 1.20                | 1.20  | 1.18   | 3.0                 | 1.40   | 1.41   | 1.37  | 3.5    | 1.59   | 1.60  | 1.56   |
| 20               | 3/4   | 27.2                  | 1.5                 | 0.960 | 0.966  | 0.944               | 2.0    | 1.26   | 1.26                | 1.23  | 2.5    | 1.54                | 1.55  | 1.51   | 3.0                 | 1.81   | 1.82   | 1.78  | 4.0    | 2.31   | 2.33  | 2.27   |
| 25               | 1     | 34.0                  | 2.0                 | 1.59  | 1.60   | 1.57                | 2.5    | 1.96   | 1.97                | 1.93  | 3.0    | 2.32                | 2.33  | 2.28   | 3.5                 | 2.66   | 2.68   | 2.62  | 4.5    | 3.31   | 3.33  | 3.25   |
| 32               | 1 1/4 | 42.7                  | 2.0                 | 2.03  | 2.04   | 1.99                | 3.0    | 2.97   | 2.99                | 2.92  | 3.0    | 2.97                | 2.99  | 2.92   | 3.5                 | 3.42   | 3.44   | 3.36  | 5.0    | 4.70   | 4.73  | 4.62   |
| 40               | 1 1/2 | 48.6                  | 2.0                 | 2.32  | 2.34   | 2.28                | 3.0    | 3.41   | 3.43                | 3.35  | 3.0    | 3.41                | 3.43  | 3.35   | 4.0                 | 4.44   | 4.47   | 4.37  | 5.0    | 5.43   | 5.47  | 5.34   |
| 50               | 2     | 60.5                  | 2.0                 | 2.91  | 2.93   | 2.87                | 3.0    | 4.30   | 4.32                | 4.23  | 3.5    | 4.97                | 5.00  | 4.89   | 4.0                 | 5.63   | 5.67   | 5.54  | 5.5    | 7.54   | 7.58  | 7.41   |
| 65               | 2 1/2 | 76.3                  | 2.0                 | 3.70  | 3.73   | 3.64                | 3.0    | 5.48   | 5.51                | 5.39  | 3.5    | 6.35                | 6.39  | 6.24   | 5.0                 | 8.88   | 8.94   | 8.73  | 7.0    | 12.1   | 12.2  | 11.9   |
| 80               | 3     | 89.1                  | 2.0                 | 4.34  | 4.37   | 4.27                | 3.0    | 6.43   | 6.48                | 6.33  | 4.0    | 8.48                | 8.53  | 8.34   | 5.5                 | 11.5   | 11.5   | 11.3  | 8.0    | 16.2   | 16.3  | 15.9   |
| 90               | 3 1/2 | 101.6                 | 2.5                 | 6.17  | 6.21   | 6.07                | 3.0    | 7.37   | 7.42                | 7.25  | 4.0    | 9.72                | 9.79  | 9.56   | 6.0                 | 14.3   | 14.4   | 14.1  | 8.0    | 18.7   | 18.8  | 18.3   |
| 100              | 4     | 114.3                 | 2.5                 | 6.96  | 7.01   | 6.85                | 3.0    | 8.32   | 8.37                | 8.18  | 4.0    | 11.0                | 11.1  | 10.8   | 6.0                 | 16.2   | 16.3   | 15.9  | 9.0    | 23.6   | 23.8  | 23.2   |
| 125              | 5     | 139.8                 | 3.0                 | 10.2  | 10.3   | 10.1                | 3.5    | 11.9   | 12.0                | 11.7  | 5.0    | 16.8                | 16.9  | 16.5   | 7.0                 | 23.2   | 23.3   | 22.8  | 10.0   | 32.3   | 32.5  | 31.8   |
| 150              | 6     | 165.2                 | 3.0                 | 12.1  | 12.2   | 11.9                | 3.5    | 14.1   | 14.2                | 13.9  | 5.0    | 20.0                | 20.1  | 19.6   | 7.0                 | 27.6   | 27.8   | 27.1  | 12.0   | 45.8   | 46.1  | 45.0   |
| 200              | 8     | 216.3                 | 3.0                 | 15.9  | 16.0   | 15.7                | 4.0    | 21.2   | 21.3                | 20.8  | 6.5    | 34.0                | 34.2  | 33.4   | 8.0                 | 41.5   | 41.8   | 40.8  | 13.0   | 65.8   | 66.3  | 64.8   |
| 250              | 10    | 267.4                 | 3.5                 | 23.0  | 23.2   | 22.6                | 4.0    | 26.2   | 26.4                | 25.8  | 6.5    | 42.2                | 42.5  | 41.5   | 10.0                | 64.1   | 64.5   | 63.1  | 15.0   | 94.3   | 94.9  | 92.8   |
| 300              | 12    | 318.5                 | 4.0                 | 31.3  | 31.5   | 30.8                | 4.5    | 35.2   | 35.4                | 34.6  | 6.5    | 50.5                | 50.8  | 49.7   | 10.0                | 76.8   | 77.3   | 75.6  | 18.0   | 135    | 136   | 133    |



## [JIS G 3468 Large-diameter welded stainless steel pipes / Weight and size]

| Nominal diameter |    | Outside diameter (mm) | Nominal thickness   |               |      |                     |               |      |                     |               |      |                     |               |      |
|------------------|----|-----------------------|---------------------|---------------|------|---------------------|---------------|------|---------------------|---------------|------|---------------------|---------------|------|
| A                | B  |                       | Schedule 5S         |               |      | Schedule 10S        |               |      | Schedule 20S        |               |      | Schedule 40         |               |      |
|                  |    |                       | Wall thickness (mm) | Weight (kg/m) |      | Wall thickness (mm) | Weight (kg/m) |      | Wall thickness (mm) | Weight (kg/m) |      | Wall thickness (mm) | Weight (kg/m) |      |
|                  |    |                       |                     | Type          |      |                     | Type          |      |                     | Type          |      |                     | Type          |      |
|                  |    |                       |                     | 304           | 309S |                     | 304           | 309S |                     | 304           | 309S |                     | 304           | 309S |
|                  |    |                       | 304L                | 310S          |      | 304L                | 310S          |      | 304L                | 310S          |      | 304L                | 310S          |      |
|                  |    |                       | 321                 | 316           |      | 321                 | 316           |      | 321                 | 316           |      | 321                 | 316           |      |
|                  |    |                       |                     | 316L          |      |                     | 316L          |      |                     | 316L          |      |                     | 316L          |      |
|                  |    |                       |                     | 317L          |      |                     | 317L          |      |                     | 317L          |      |                     | 317L          |      |
|                  |    |                       |                     | 347           |      |                     | 347           |      |                     | 347           |      |                     | 347           |      |
| 150              | 6  | 165.2                 | 2.8                 | 11.3          | 11.4 | 3.4                 | 13.7          | 13.8 | 5.0                 | 20.0          | 20.1 | 7.1                 | 28.0          | 28.1 |
| 200              | 8  | 216.3                 | 2.8                 | 14.9          | 15.0 | 4.0                 | 21.2          | 21.3 | 6.5                 | 34.0          | 34.2 | 8.2                 | 42.5          | 42.8 |
| 250              | 10 | 267.4                 | 3.4                 | 22.4          | 22.5 | 4.0                 | 26.2          | 26.4 | 6.5                 | 42.2          | 42.5 | 9.3                 | 59.8          | 60.2 |
| 300              | 12 | 318.5                 | 4.0                 | 31.3          | 31.5 | 4.5                 | 35.2          | 35.4 | 6.5                 | 50.5          | 50.8 | 10.3                | 79.1          | 79.6 |
| 350              | 14 | 355.6                 | 4.0                 | 35.0          | 35.3 | 5.0                 | 43.7          | 43.9 | 8.0                 | 69.3          | 69.7 | 11.1                | 95.3          | 95.9 |
| 400              | 16 | 406.4                 | 4.5                 | 45.1          | 45.3 | 5.0                 | 50.0          | 50.3 | 8.0                 | 79.4          | 79.9 | 12.7                | 125           | 125  |
| 450              | 18 | 457.2                 | 4.5                 | 50.7          | 51.1 | 5.0                 | 56.3          | 56.7 | 8.0                 | 89.5          | 90.1 | 14.3                | 158           | 159  |
| 500              | 20 | 508.0                 | 5.0                 | 62.6          | 63.1 | 5.5                 | 68.8          | 69.3 | 9.5                 | 118           | 119  | 15.1                | 185           | 187  |
| 550              | 22 | 558.8                 | 5.0                 | 69.0          | 69.4 | 5.5                 | 75.8          | 76.3 | 9.5                 | 130           | 131  | 15.9                | 215           | 216  |
| 600              | 24 | 609.6                 | 5.5                 | 82.8          | 83.3 | 6.5                 | 97.7          | 98.3 | 9.5                 | 142           | 143  | 17.5                | 258           | 260  |
| 650              | 26 | 660.4                 | 5.5                 | 89.7          | 90.3 | 8.0                 | 130           | 131  | 12.7                | 205           | 206  | -                   | -             | -    |
| 700              | 28 | 711.2                 | 5.5                 | 96.7          | 97.3 | 8.0                 | 140           | 141  | 12.7                | 221           | 222  | -                   | -             | -    |
| 750              | 30 | 762.0                 | 6.5                 | 122           | 123  | 8.0                 | 150           | 151  | 12.7                | 237           | 239  | -                   | -             | -    |
| 800              | 32 | 812.8                 | -                   | -             | -    | 8.0                 | 160           | 161  | 12.7                | 253           | 255  | -                   | -             | -    |
| 850              | 34 | 863.6                 | -                   | -             | -    | 8.0                 | 171           | 172  | 12.7                | 269           | 271  | -                   | -             | -    |
| 900              | 36 | 914.4                 | -                   | -             | -    | 8.0                 | 181           | 182  | 12.7                | 285           | 287  | -                   | -             | -    |
| 1000             | 40 | 1016.0                | -                   | -             | -    | 9.5                 | 238           | 240  | 14.3                | 357           | 359  | -                   | -             | -    |

## [ASTM A 312 Pipes / Weight and size (ANSI B36.19)]

| Nominal diameter (NPS) | Outside diameter (mm) | Nominal thickness   |               |       |                     |               |       |                     |               |       |                     |               |       |
|------------------------|-----------------------|---------------------|---------------|-------|---------------------|---------------|-------|---------------------|---------------|-------|---------------------|---------------|-------|
|                        |                       | Schedule 5S         |               |       |                     | Schedule 10S  |       |                     | Schedule 40S  |       |                     | Schedule 80S  |       |
|                        |                       | Wall thickness (mm) | Weight (kg/m) |       | Wall thickness (mm) | Weight (kg/m) |       | Wall thickness (mm) | Weight (kg/m) |       | Wall thickness (mm) | Weight (kg/m) |       |
|                        |                       |                     | Type          |       |                     | Type          |       |                     | Type          |       |                     | Type          |       |
|                        |                       |                     | 304           | 309S  |                     | 304           | 309S  |                     | 304           | 309S  |                     | 304           | 309S  |
|                        |                       |                     | 304H          | 310S  |                     | 304H          | 310S  |                     | 304H          | 310S  |                     | 304H          | 310S  |
|                        |                       | 304L                | 316           |       | 304L                | 316           |       | 304L                | 316           |       | 304L                | 316           |       |
|                        |                       | 321                 | 316L          |       | 321                 | 316L          |       | 321                 | 316L          |       | 321                 | 316L          |       |
|                        |                       |                     | 317L          |       |                     | 317L          |       |                     | 317L          |       |                     | 317L          |       |
|                        |                       |                     | 347           |       |                     | 347           |       |                     | 347           |       |                     | 347           |       |
| 1/8                    | 10.29                 | -                   | -             | -     | 1.24                | 0.280         | 0.281 | 1.73                | 0.369         | 0.371 | 2.41                | 0.473         | 0.476 |
| 1/4                    | 13.72                 | -                   | -             | -     | 1.65                | 0.496         | 0.499 | 2.24                | 0.641         | 0.645 | 3.02                | 0.805         | 0.810 |
| 3/8                    | 17.15                 | -                   | -             | -     | 1.65                | 0.637         | 0.641 | 2.31                | 0.854         | 0.859 | 3.20                | 1.11          | 1.12  |
| 1/2                    | 21.34                 | 1.65                | 0.809         | 0.814 | 2.11                | 1.01          | 1.02  | 2.77                | 1.28          | 1.29  | 3.73                | 1.64          | 1.65  |
| 3/4                    | 26.67                 | 1.65                | 1.03          | 1.03  | 2.11                | 1.29          | 1.30  | 2.87                | 1.70          | 1.71  | 3.91                | 2.22          | 2.23  |
| 1                      | 33.40                 | 1.65                | 1.30          | 1.31  | 2.77                | 2.11          | 2.13  | 3.38                | 2.53          | 2.54  | 4.55                | 3.27          | 3.29  |
| 1 1/4                  | 42.16                 | 1.65                | 1.67          | 1.68  | 2.77                | 2.72          | 2.74  | 3.56                | 3.42          | 3.45  | 4.85                | 4.51          | 4.54  |
| 1 1/2                  | 48.26                 | 1.65                | 1.92          | 1.93  | 2.77                | 3.14          | 3.16  | 3.68                | 4.09          | 4.11  | 5.08                | 5.46          | 5.50  |
| 2                      | 60.33                 | 1.65                | 2.41          | 2.43  | 2.77                | 3.97          | 4.00  | 3.91                | 5.50          | 5.53  | 5.54                | 7.56          | 7.61  |
| 2 1/2                  | 73.03                 | 2.11                | 3.73          | 3.75  | 3.05                | 5.32          | 5.35  | 5.16                | 8.72          | 8.78  | 7.01                | 11.5          | 11.6  |
| 3                      | 88.90                 | 2.11                | 4.56          | 4.59  | 3.05                | 6.52          | 6.56  | 5.49                | 11.4          | 11.5  | 7.62                | 15.4          | 15.5  |
| 3 1/2                  | 101.60                | 2.11                | 5.23          | 5.26  | 3.05                | 7.49          | 7.54  | 5.74                | 13.7          | 13.8  | 8.08                | 18.8          | 18.9  |
| 4                      | 114.30                | 2.11                | 5.90          | 5.93  | 3.05                | 8.45          | 8.51  | 6.02                | 16.2          | 16.3  | 8.56                | 22.5          | 22.7  |
| 5                      | 141.30                | 2.77                | 9.56          | 9.62  | 3.40                | 11.7          | 11.8  | 6.55                | 22.0          | 22.1  | 9.52                | 31.3          | 31.5  |
| 6                      | 168.28                | 2.77                | 11.4          | 11.5  | 3.40                | 14.0          | 14.1  | 7.11                | 28.5          | 28.7  | 10.97               | 43.0          | 43.3  |
| 8                      | 219.08                | 2.77                | 14.9          | 15.0  | 3.76                | 20.2          | 20.3  | 8.18                | 43.0          | 43.2  | 12.70               | 65.3          | 65.7  |
| 10                     | 273.05                | 3.40                | 22.8          | 23.0  | 4.19                | 28.1          | 28.2  | 9.27                | 60.9          | 61.3  | 12.70               | 82.4          | 82.9  |
| 12                     | 323.85                | 3.96                | 31.6          | 31.8  | 4.57                | 36.3          | 36.6  | 9.52                | 74.5          | 75.0  | 12.70               | 98.4          | 99.1  |
| 14                     | 355.60                | 3.96                | 34.7          | 34.9  | 4.78                | 41.8          | 42.0  | -                   | -             | -     | -                   | -             | -     |
| 16                     | 406.40                | 4.19                | 42.0          | 42.2  | 4.78                | 47.8          | 48.1  | -                   | -             | -     | -                   | -             | -     |
| 18                     | 457.20                | 4.19                | 47.3          | 47.6  | 4.78                | 53.9          | 54.2  | -                   | -             | -     | -                   | -             | -     |
| 20                     | 508.00                | 4.78                | 59.9          | 60.3  | 5.54                | 69.3          | 69.8  | -                   | -             | -     | -                   | -             | -     |
| 22                     | 558.80                | 4.78                | 66.0          | 66.4  | 5.54                | 76.4          | 76.8  | -                   | -             | -     | -                   | -             | -     |
| 24                     | 609.60                | 5.54                | 83.4          | 83.9  | 6.35                | 95.4          | 96.0  | -                   | -             | -     | -                   | -             | -     |
| 30                     | 762.00                | 6.35                | 120           | 120   | 7.92                | 149           | 150   | -                   | -             | -     | -                   | -             | -     |

## [Square & Rectangular stainless steel pipes / Weight and size]

Max. length: 12 m

### [Square]

| Wall thickness<br>(mm)<br>Side length<br>(mm) | 3.0  | 4.0  | 5.0  | 6.0  | 9.0   | 12.0 <sup>*1)</sup> |
|-----------------------------------------------|------|------|------|------|-------|---------------------|
| 40×40                                         | 3.34 | 4.24 |      |      |       |                     |
| 50×50                                         | 4.29 | 5.51 | 6.63 |      |       |                     |
| 60×60                                         | 5.24 | 6.78 | 8.21 |      |       |                     |
| 75×75                                         | 6.67 | 8.68 | 10.6 | 12.4 |       |                     |
| 80×80                                         | 7.14 | 9.32 | 11.4 | 13.3 |       |                     |
| 90×90                                         | 8.10 | 10.6 | 13.0 | 15.3 |       |                     |
| 100×100                                       | 9.05 | 11.9 | 14.6 | 17.2 | 24.3  |                     |
| 110×110                                       | 10.0 | 13.1 | 16.1 | 19.1 |       |                     |
| 120×120                                       | 11.0 | 14.4 | 17.7 | 21.0 |       |                     |
| 125×125                                       | 11.4 | 15.0 | 18.5 | 21.9 | 31.5  |                     |
| 150×150                                       | 13.8 | 18.2 | 22.5 | 26.7 | 38.6  | 49.6                |
| 175×175                                       | 16.2 | 21.4 | 26.5 | 31.4 | 45.7  | 59.1                |
| 200×200                                       | 18.6 | 24.5 | 30.4 | 36.2 | 52.9  | 68.6                |
| 250×250                                       |      | 30.9 | 38.3 | 45.7 | 67.1  | 87.7                |
| 300×300                                       |      | 37.2 | 46.3 | 55.2 | 81.40 | 106.7               |

### [Rectangular]

| Wall thickness<br>(mm)<br>Side length<br>(mm) | 3.0  | 4.0  | 5.0  | 6.0  | 9.0  | 12.0 <sup>*1)</sup> |
|-----------------------------------------------|------|------|------|------|------|---------------------|
| 60×30                                         | 3.81 | 4.88 |      |      |      |                     |
| 75×45                                         | 5.24 | 6.78 |      |      |      |                     |
| 80×40                                         | 5.24 | 6.78 |      |      |      |                     |
| 90×50                                         | 6.19 | 8.05 |      |      |      |                     |
| 100×40                                        | 6.19 | 8.05 |      |      |      |                     |
| 100×50                                        | 6.67 | 8.68 | 10.6 | 12.4 |      |                     |
| 125×75                                        | 9.05 | 11.9 | 14.6 | 17.2 |      |                     |
| 150×75                                        | 10.2 | 13.4 | 16.5 | 19.5 |      |                     |
| 150×100                                       | 11.4 | 15.0 | 18.5 | 21.9 | 31.5 |                     |
| 200×75                                        | 12.6 | 16.6 | 20.5 | 24.3 |      |                     |
| 200×100                                       | 13.8 | 18.2 | 22.5 | 26.7 | 38.6 |                     |
| 200×150                                       | 16.2 | 21.4 | 26.5 | 31.4 | 45.7 | 59.1                |
| 250×150                                       | 18.6 | 24.5 | 30.4 | 36.2 | 52.9 | 68.6                |
| 300×200                                       |      | 30.9 | 38.3 | 45.7 | 67.1 | 87.7                |

The above tables indicate the weight (kg/m) of SUS304.

\*1) The dimensions allowance of thickness 12mm depends on JIS G4321.

For any other size than the above, please contact us.

Two-seam and other specifications are available for large diameter pipes and special sizes.

**[Reference]** The formula to calculate the weight of SUS304 / SUS316 is as follows:

| Type          | SUS304                     | SUS316                     |
|---------------|----------------------------|----------------------------|
| Edge size (S) |                            |                            |
| 1.5t          | $W = 0.01586t(A+B-2.858t)$ | $W = 0.01596t(A+B-2.858t)$ |
| 2.0t          | $W = 0.01586t(A+B-3.287t)$ | $W = 0.01596t(A+B-3.287t)$ |

W : Pipe weight (kg/m)

t : Pipe wall thickness (mm)

A & B : Side length (mm)

## ■ Features of NAS square & rectangular stainless steel pipes ■

1. Made from stainless steel coils and plates supplied by Nippon Yakin Kogyo Co. Ltd., who only integratedly produces stainless steel in Japan from nickel ore smelting.
2. Made from specially manufactured round mother pipe set for shape size of square & rectangular pipe in order to keep uniform product shape and quality.  
No other companies in Japan take such integrated production system as from round mother pipe.
3. So widely available to comply with the requirements of our clients as to variety in kinds of finish, short delivery time, special dimension, special steel types other than type SUS304.
4. This stable quality allows our product to be used in wide range of fields.
  - General structure (e.g. stands of machinery/equipment, reinforcing tanks)
  - Construction structure (e.g. exterior parts such as columns, bridge railing and signboards)
  - Nuclear power energy (e.g. vessels for used reactor fuel)

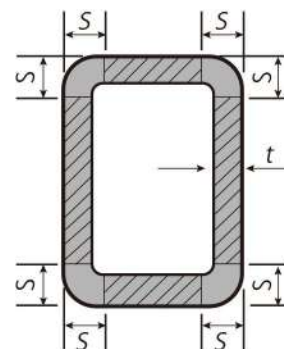


**[Dimensional tolerance and mechanical properties of square & rectangular stainless steel pipes (SUS304, SUS316)]**

| Item and size category |                                                            |                  | NAS TOA standard                          | SAS311                 | JIS G4321                    |
|------------------------|------------------------------------------------------------|------------------|-------------------------------------------|------------------------|------------------------------|
| Dimensional tolerance  | Side length                                                | ≤ 100 mm         | ±0.5mm                                    | ±1.5mm                 | ±1.5mm                       |
|                        |                                                            | > 100 mm         | ±1.0mm                                    | ±1.5%                  | ±1.5%                        |
|                        | Concavity and convexity on flat plate portion of each side | ≤ 100 mm         | ≤ 0.5mm                                   | ≤ 0.5mm                | ≤ 0.5mm                      |
|                        |                                                            | > 100 mm         | ≤ 0.4% of side length                     | ≤ 0.5% of side length  | ≤ 0.5% of side length        |
|                        | Angle between flat plate portions                          |                  | 90°±1.0°                                  | 90°±1.5°               | 90°±1.5°                     |
|                        | Length                                                     |                  | + Not specified, -0                       | + Not specified, -0    | + Not specified, -0          |
|                        | Unstraightness                                             |                  | ≤ 1mm/m                                   | ≤ 0.3% of total length | ≤ 0.3% of total length       |
|                        | Dimension of corner (S)                                    |                  | long side + short side<br>= ≤ 300mm: ≤ 2t | ≤ 3t                   | According to the table below |
|                        |                                                            |                  | long side + short side<br>= ≥ 300mm: ≤ 3t |                        |                              |
|                        | Wall thickness (t)                                         |                  | ±10%                                      | <3mm: ±0.3mm           | To be specified separately   |
|                        |                                                            |                  |                                           | ≥ 3mm: ±10%            |                              |
|                        | Welded bead position                                       |                  | Not corner portion                        | -                      | -                            |
|                        | Welded bead height                                         |                  | ≤ 10% of thickness                        | -                      | -                            |
| Mechanical properties  |                                                            | Tensile strength | ≥ 520N/mm <sup>2</sup>                    | ≥ 520N/mm <sup>2</sup> | ≥ 520N/mm <sup>2</sup>       |
|                        |                                                            | Elongation       | ≥ 35%                                     | ≥ 35%                  | ≥ 40%                        |

**Remarks:**

1. Wall thickness tolerance is applicable to flat plate portion (Shown as shaded portion in the right figure).
2. Measuring cross sections shall be taken at least 100mm from both ends of the pipe, except for wall thickness and bead height.
3. Straightness tolerance is applicable to vertical and parallel large curvature.
4. The dimension S of the corner refers to the perpendicular length from the intersection of the flat surface and the corner to the side surface. (See the diagram on the right)



| Corner Dimension Classification | Thickness (t) | Dimensions (S) | Tolerance |
|---------------------------------|---------------|----------------|-----------|
| Type 1                          | <8mm          | 2.5t           | ±0.7t     |
|                                 | ≥ 8mm—<25mm   | 3.0t           | ±0.7t     |
| Type 2                          | ≤ 9mm         | 2.0t           | ±0.7t     |
| Type 3                          | ≤ 6mm         | 1.5t           | ±0.5t     |

5. The mechanical properties shall be tested by measuring a specimen taken from a flat plate portion except welded portion.

- For any size tolerance other than the above, please contact us.
- If you demand to apply SAS or JIS, please contact us.

**[Reference]**

- SAS: SAS311 (Square / rectangular stainless steel pipes for general structures)  
Established by the Japan Stainless Steel Association according to JIS G 3466 (Carbon steel square and rectangular tubes for general structures).  
All standards related to shape and dimensional tolerance are based on JIS G 3466.  
Mechanical properties (except for tensile strength and elongation): 0.2% Yield strength: ≥205N/mm<sup>2</sup>, HV: ≤230, HRB: ≤97.
- JIS: JIS G 4321 (Stainless steel for building structures - Square / rectangular steel pipes)  
Applied to stainless steel for building structures.  
Mechanical properties (except for tensile strength and elongation): 0.1% Yield strength: ≥235N/mm<sup>2</sup>, Yield ratio: ≤60%.



# [Sectional performance of square & rectangular stainless steel pipes]

## [Square]

## [Rectangular]

| Dimension<br>(AxB) | Wall<br>thickness<br>mm | Weight<br>Kg/m | Section<br>area<br>cm <sup>2</sup> | Sectional secondary<br>moment |                   | Sectional coefficient |                   | Sectional secondary<br>radius |      | Dimension<br>(AxB) | Wall<br>thickness<br>mm                                                                                                                                                         | Weight<br>Kg/m | Section<br>area<br>cm <sup>2</sup> | Sectional secondary<br>moment |                   | Sectional coefficient |                   | Sectional secondary<br>radius |      |
|--------------------|-------------------------|----------------|------------------------------------|-------------------------------|-------------------|-----------------------|-------------------|-------------------------------|------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|-------------------------------|-------------------|-----------------------|-------------------|-------------------------------|------|
|                    |                         |                |                                    | Ixcm <sup>4</sup>             | Iycm <sup>4</sup> | Zxcm <sup>3</sup>     | Zycm <sup>3</sup> | ixcm                          | iycm |                    |                                                                                                                                                                                 |                |                                    | Ixcm <sup>4</sup>             | Iycm <sup>4</sup> | Zxcm <sup>3</sup>     | Zycm <sup>3</sup> | ixcm                          | iycm |
| 40 × 40            | 3                       | 3.34           | 4.208                              | 9.32                          |                   | 4.66                  |                   | 1.49                          |      | 60 × 30            | 3                                                                                                                                                                               | 3.81           | 4.808                              | 20.5                          | 6.80              | 6.83                  | 4.53              | 2.06                          | 1.19 |
|                    | 4                       | 4.24           | 5.348                              | 11.1                          |                   | 5.54                  |                   | 1.44                          |      |                    | 4                                                                                                                                                                               | 4.88           | 6.148                              | 24.7                          | 8.06              | 8.23                  | 5.37              | 2.06                          | 1.14 |
| 50 × 50            | 3                       | 4.29           | 5.408                              | 19.5                          |                   | 7.79                  |                   | 1.90                          |      | 75 × 45            | 3                                                                                                                                                                               | 5.24           | 6.608                              | 48.3                          | 21.7              | 12.9                  | 9.66              | 2.70                          | 1.81 |
|                    | 4                       | 5.51           | 6.948                              | 23.7                          |                   | 9.49                  |                   | 1.85                          |      |                    | 4                                                                                                                                                                               | 6.78           | 8.548                              | 59.9                          | 26.7              | 16.0                  | 11.9              | 2.65                          | 1.77 |
|                    | 5                       | 6.63           | 8.356                              | 27.0                          |                   | 10.8                  |                   | 1.80                          |      | 3                  | 5.24                                                                                                                                                                            | 6.608          | 52.3                               | 17.6                          | 13.1              | 8.78                  | 2.81              | 1.70                          |      |
| 60 × 60            | 3                       | 5.24           | 6.608                              | 35.1                          |                   | 11.7                  |                   | 2.31                          |      | 80 × 40            | 4                                                                                                                                                                               | 6.78           | 8.548                              | 64.6                          | 21.5              | 16.1                  | 10.7              | 2.75                          | 1.59 |
|                    | 4                       | 6.78           | 8.548                              | 43.6                          |                   | 14.5                  |                   | 2.26                          |      |                    | 3                                                                                                                                                                               | 6.19           | 7.808                              | 81.9                          | 32.7              | 18.2                  | 13.1              | 3.24                          | 2.05 |
|                    | 5                       | 8.21           | 10.36                              | 50.5                          |                   | 16.8                  |                   | 2.21                          |      | 4                  | 8.05                                                                                                                                                                            | 10.15          | 103                                | 40.7                          | 22.8              | 16.3                  | 3.18              | 2.00                          |      |
| 75 × 75            | 3                       | 6.67           | 8.408                              | 71.6                          |                   | 19.1                  |                   | 2.92                          |      | 100 × 40           | 3                                                                                                                                                                               | 6.19           | 7.808                              | 92.3                          | 21.7              | 18.5                  | 10.8              | 3.44                          | 1.67 |
|                    | 4                       | 8.68           | 10.95                              | 90.2                          |                   | 24.1                  |                   | 2.87                          |      |                    | 4                                                                                                                                                                               | 8.05           | 10.15                              | 116                           | 26.7              | 23.1                  | 13.4              | 3.38                          | 1.62 |
|                    | 5                       | 10.6           | 13.36                              | 106                           |                   | 28.4                  |                   | 2.82                          |      | 100 × 50           | 3                                                                                                                                                                               | 6.67           | 8.408                              | 106                           | 36.1              | 21.3                  | 14.4              | 3.56                          | 2.07 |
|                    | 6                       | 12.4           | 15.63                              | 120                           |                   | 32.0                  |                   | 2.77                          |      |                    | 4                                                                                                                                                                               | 8.68           | 10.95                              | 134                           | 45.0              | 26.8                  | 18.0              | 3.50                          | 2.03 |
| 80 × 80            | 3                       | 7.14           | 9.008                              | 87.8                          |                   | 22.0                  |                   | 3.12                          |      |                    | 5                                                                                                                                                                               | 10.6           | 13.36                              | 158                           | 52.5              | 31.6                  | 21.0              | 3.44                          | 1.98 |
|                    | 4                       | 9.32           | 11.75                              | 111                           |                   | 27.8                  |                   | 3.07                          |      |                    | 6                                                                                                                                                                               | 12.4           | 15.63                              | 179                           | 58.7              | 35.8                  | 23.5              | 3.38                          | 1.94 |
|                    | 5                       | 11.4           | 14.36                              | 131                           |                   | 32.9                  |                   | 3.03                          |      | 3                  | 9.05                                                                                                                                                                            | 11.41          | 243                                | 111                           | 38.9              | 29.5                  | 4.61              | 3.11                          |      |
|                    | 6                       | 13.3           | 16.83                              | 149                           |                   | 37.3                  |                   | 2.98                          |      | 4                  | 11.9                                                                                                                                                                            | 14.95          | 311                                | 141                           | 49.7              | 37.5                  | 4.56              | 3.07                          |      |
| 90 × 90            | 3                       | 8.10           | 10.21                              | 127                           |                   | 28.3                  |                   | 3.53                          |      | 125 × 75           | 5                                                                                                                                                                               | 14.6           | 18.36                              | 373                           | 168               | 59.6                  | 44.7              | 4.50                          | 3.02 |
|                    | 4                       | 10.6           | 13.35                              | 162                           |                   | 36.0                  |                   | 3.48                          |      |                    | 6                                                                                                                                                                               | 17.2           | 21.63                              | 428                           | 192               | 68.5                  | 51.1              | 4.45                          | 2.98 |
|                    | 5                       | 13.0           | 16.36                              | 193                           |                   | 42.9                  |                   | 3.43                          |      |                    | 3                                                                                                                                                                               | 10.2           | 12.91                              | 380                           | 130               | 50.6                  | 34.7              | 5.42                          | 3.17 |
|                    | 6                       | 15.3           | 19.23                              | 220                           |                   | 49.0                  |                   | 3.39                          |      |                    | 4                                                                                                                                                                               | 13.4           | 16.95                              | 488                           | 166               | 65.1                  | 44.2              | 5.37                          | 3.13 |
| 100 × 100          | 3                       | 9.05           | 11.41                              | 177                           |                   | 35.4                  |                   | 3.94                          |      | 150 × 75           | 5                                                                                                                                                                               | 16.5           | 20.86                              | 588                           | 198               | 78.4                  | 52.9              | 5.31                          | 3.08 |
|                    | 4                       | 11.9           | 14.95                              | 226                           |                   | 45.3                  |                   | 3.89                          |      |                    | 6                                                                                                                                                                               | 19.5           | 24.63                              | 679                           | 228               | 90.5                  | 60.7              | 5.25                          | 3.04 |
|                    | 5                       | 14.6           | 18.36                              | 271                           |                   | 54.2                  |                   | 3.84                          |      |                    | 3                                                                                                                                                                               | 11.4           | 14.41                              | 461                           | 248               | 61.4                  | 49.5              | 5.65                          | 4.15 |
|                    | 6                       | 17.2           | 21.63                              | 311                           |                   | 62.3                  |                   | 3.79                          |      |                    | 4                                                                                                                                                                               | 15.0           | 18.95                              | 595                           | 319               | 79.3                  | 63.7              | 5.60                          | 4.10 |
|                    | 9                       | 24.3           | 30.67                              | 408                           |                   | 81.6                  |                   | 3.65                          |      |                    | 5                                                                                                                                                                               | 18.5           | 23.36                              | 719                           | 384               | 95.9                  | 76.8              | 5.55                          | 4.05 |
| 110 × 110          | 3                       | 10.0           | 12.61                              | 238                           |                   | 43.3                  |                   | 4.35                          |      | 150 × 100          | 6                                                                                                                                                                               | 21.9           | 27.63                              | 835                           | 444               | 111                   | 88.8              | 5.50                          | 4.01 |
|                    | 4                       | 13.1           | 16.55                              | 306                           |                   | 55.6                  |                   | 4.30                          |      |                    | 9                                                                                                                                                                               | 31.5           | 39.67                              | 113×10                        | 595               | 150                   | 119               | 5.33                          | 3.87 |
|                    | 5                       | 16.1           | 20.36                              | 368                           |                   | 66.9                  |                   | 4.25                          |      |                    | 3                                                                                                                                                                               | 12.6           | 15.91                              | 779                           | 169               | 77.9                  | 45.0              | 7.00                          | 3.26 |
|                    | 6                       | 19.1           | 24.03                              | 424                           |                   | 77.2                  |                   | 4.20                          |      |                    | 4                                                                                                                                                                               | 16.6           | 20.95                              | 101×10                        | 216               | 101                   | 57.7              | 6.94                          | 3.21 |
| 120 × 120          | 3                       | 11.0           | 13.81                              | 312                           |                   | 52.1                  |                   | 4.76                          |      | 200 × 75           | 5                                                                                                                                                                               | 20.5           | 25.86                              | 122×10                        | 260               | 122                   | 69.3              | 6.87                          | 3.17 |
|                    | 4                       | 14.4           | 18.15                              | 402                           |                   | 67.1                  |                   | 4.71                          |      |                    | 6                                                                                                                                                                               | 24.3           | 30.63                              | 142×10                        | 299               | 142                   | 79.8              | 6.81                          | 3.12 |
|                    | 5                       | 17.7           | 22.36                              | 485                           |                   | 80.9                  |                   | 4.66                          |      |                    | 3                                                                                                                                                                               | 13.8           | 17.41                              | 924                           | 318               | 92.4                  | 63.7              | 7.29                          | 4.28 |
|                    | 6                       | 21.0           | 26.43                              | 562                           |                   | 93.7                  |                   | 4.61                          |      |                    | 4                                                                                                                                                                               | 18.2           | 22.95                              | 120×10                        | 411               | 120                   | 82.2              | 7.23                          | 4.23 |
| 125 × 125          | 3                       | 11.4           | 14.41                              | 355                           |                   | 56.7                  |                   | 4.96                          |      | 200 × 100          | 5                                                                                                                                                                               | 22.5           | 28.36                              | 146×10                        | 497               | 146                   | 99.4              | 7.17                          | 4.19 |
|                    | 4                       | 15.0           | 18.95                              | 457                           |                   | 73.2                  |                   | 4.91                          |      |                    | 6                                                                                                                                                                               | 26.7           | 33.63                              | 170×10                        | 577               | 170                   | 115               | 7.12                          | 4.14 |
|                    | 5                       | 18.5           | 23.36                              | 553                           |                   | 88.4                  |                   | 4.86                          |      |                    | 9                                                                                                                                                                               | 38.6           | 48.67                              | 235×10                        | 782               | 235                   | 156               | 6.94                          | 4.01 |
|                    | 6                       | 21.9           | 27.63                              | 641                           |                   | 103                   |                   | 4.82                          |      |                    | 3                                                                                                                                                                               | 16.2           | 20.41                              | 122×10                        | 785               | 122                   | 105               | 7.72                          | 6.20 |
|                    | 9                       | 31.5           | 39.67                              | 865                           |                   | 138                   |                   | 4.67                          |      |                    | 4                                                                                                                                                                               | 21.4           | 26.95                              | 158×10                        | 102×10            | 158                   | 136               | 7.67                          | 6.16 |
| 150 × 150          | 3                       | 13.8           | 17.41                              | 623                           |                   | 83.0                  |                   | 5.98                          |      | 200 × 150          | 5                                                                                                                                                                               | 26.5           | 33.36                              | 193×10                        | 125×10            | 193                   | 166               | 7.62                          | 6.11 |
|                    | 4                       | 18.2           | 22.95                              | 808                           |                   | 108                   |                   | 5.93                          |      |                    | 6                                                                                                                                                                               | 31.4           | 39.63                              | 227×10                        | 146×10            | 227                   | 194               | 7.56                          | 6.06 |
|                    | 5                       | 22.5           | 28.36                              | 982                           |                   | 131                   |                   | 5.89                          |      |                    | 9                                                                                                                                                                               | 45.7           | 57.67                              | 317×10                        | 202×10            | 317                   | 270               | 7.41                          | 5.92 |
|                    | 6                       | 26.7           | 33.63                              | 115×10                        |                   | 153                   |                   | 5.84                          |      |                    | 3                                                                                                                                                                               | 18.6           | 23.41                              | 206×10                        | 947               | 165                   | 126               | 9.39                          | 6.36 |
| 175 × 175          | 9                       | 38.6           | 48.67                              | 158×10                        |                   | 210                   |                   | 5.69                          |      | 250 × 150          | 4                                                                                                                                                                               | 24.5           | 30.95                              | 270×10                        | 123×10            | 216                   | 165               | 9.33                          | 6.32 |
|                    | 3                       | 16.2           | 20.41                              | 100×10                        |                   | 114                   |                   | 7.00                          |      |                    | 5                                                                                                                                                                               | 30.4           | 38.36                              | 330×10                        | 151×10            | 264                   | 201               | 9.28                          | 6.27 |
|                    | 4                       | 21.4           | 26.95                              | 130×10                        |                   | 149                   |                   | 6.95                          |      |                    | 6                                                                                                                                                                               | 36.2           | 45.63                              | 389×10                        | 177×10            | 311                   | 236               | 9.23                          | 6.22 |
|                    | 5                       | 26.5           | 33.36                              | 159×10                        |                   | 182                   |                   | 6.91                          |      |                    | 9                                                                                                                                                                               | 52.9           | 66.67                              | 548×10                        | 247×10            | 438                   | 330               | 9.06                          | 6.09 |
|                    | 6                       | 31.4           | 39.63                              | 186×10                        |                   | 213                   |                   | 6.86                          |      |                    | 4                                                                                                                                                                               | 30.9           | 38.95                              | 507×10                        | 274×10            | 338                   | 274               | 11.4                          | 8.38 |
|                    | 9                       | 45.7           | 57.67                              | 260×10                        |                   | 197                   |                   | 6.71                          |      |                    | 5                                                                                                                                                                               | 38.3           | 48.36                              | 624×10                        | 336×10            | 416                   | 336               | 11.4                          | 8.34 |
| 200 × 200          | 3                       | 18.6           | 23.41                              | 151×10                        |                   | 151                   |                   | 8.02                          |      | 300 × 200          | 6                                                                                                                                                                               | 45.7           | 57.63                              | 737×10                        | 396×10            | 491                   | 396               | 11.3                          | 8.29 |
|                    | 4                       | 24.5           | 30.95                              | 197×10                        |                   | 197                   |                   | 7.97                          |      |                    | 9                                                                                                                                                                               | 67.1           | 84.67                              | 1050×10                       | 563×10            | 702                   | 563               | 11.2                          | 8.16 |
|                    | 5                       | 30.4           | 38.36                              | 241×10                        |                   | 241                   |                   | 7.93                          |      |                    | Remark: The above table is calculated on the following conditions;<br><br>SUS304    Corner (S): 2t<br><br>For any other sectional performance than the above, please contact us |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 6                       | 36.2           | 45.63                              | 283×10                        |                   | 283                   |                   | 7.88                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 9                       | 52.9           | 66.67                              | 399×10                        |                   | 399                   |                   | 7.73                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
| 250 × 250          | 4                       | 30.9           | 38.95                              | 391×10                        |                   | 313                   |                   | 10.0                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 5                       | 38.3           | 48.36                              | 480×10                        |                   | 384                   |                   | 9.97                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 6                       | 45.7           | 57.63                              | 567×10                        |                   | 454                   |                   | 9.92                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
| 300 × 300          | 9                       | 67.1           | 84.67                              | 809×10                        |                   | 647                   |                   | 9.78                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 4                       | 37.2           | 46.95                              | 683×10                        |                   | 455                   |                   | 12.1                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 5                       | 46.3           | 58.36                              | 842×10                        |                   | 561                   |                   | 12.0                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 6                       | 55.2           | 69.63                              | 996×10                        |                   | 664                   |                   | 12.0                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |
|                    | 9                       | 81.4           | 102.7                              | 1430×10                       |                   | 956                   |                   | 11.8                          |      |                    |                                                                                                                                                                                 |                |                                    |                               |                   |                       |                   |                               |      |

Remark: The above table is calculated on the following conditions;

SUS304 Corner (S): 2t

For any other sectional performance than the above, please contact us