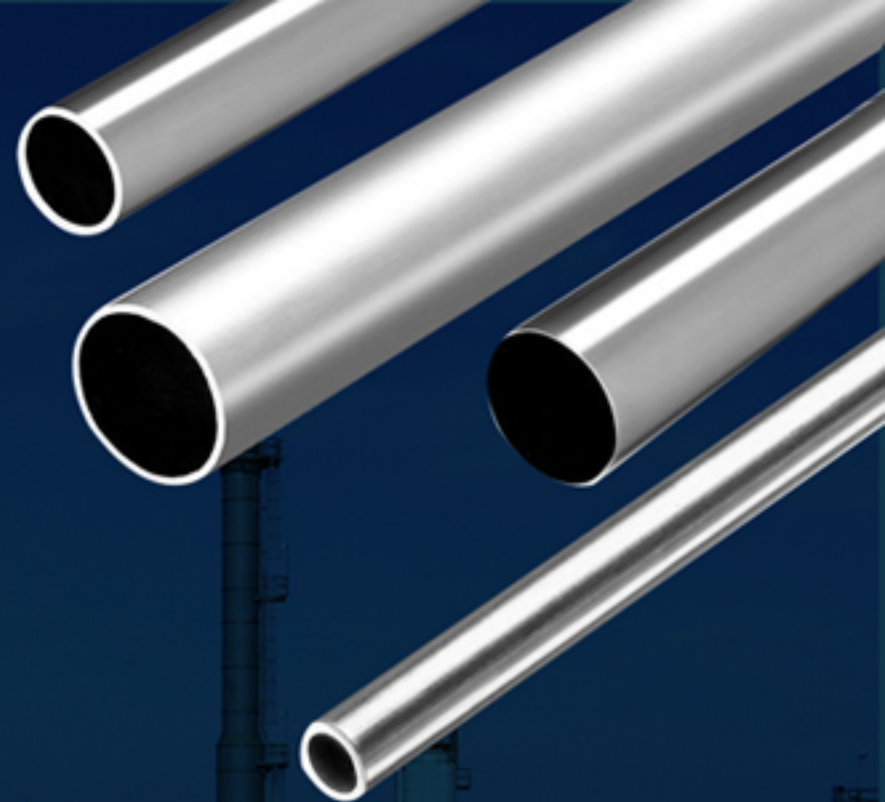




CALCUTTA TRADING CENTRE



Dealer of -



We provide our customers with the following products:-

| <u>Products</u>                     | <u>Range in OD</u>        | <u>OD : Outer diameter</u> | <u>WT: Wall thickness</u> |
|-------------------------------------|---------------------------|----------------------------|---------------------------|
| G.I PIPES                           | (OD) ½" NB to 6 NB        | (WT) Light ,Medium, Heavy  | (A,B,C Class)             |
| SEAMLESS BOILER TUBE                | (OD) 19.05 mm to 101.6 mm | (WT) 2.05 mm to 12.7 mm    |                           |
| SUBMERGED ARC WELDED (HSAW / LSAW ) | (OD) 24" to 100"          | ( WT) 5 mm to 40mm         |                           |
| CARBON STEEL SEAMLESS PIPE          | (OD) 10 mm to 610 mm      | (WT) 0.5 mm to 50 mm       | (Sch 20 To XXS)           |
| ERW BOILER TUBE                     | (OD) 19.05 mm to 101.6 mm | (WT) 2 mm to 5 mm          | (Air Pre heater tube)     |
| LOW TEMPERATURE PIPES               | (OD) ½" NB to 14 NB       | (WT) All Schedule From     | (Sch 20 To XXS)           |
| ALLOY STEEL PIPES                   | (OD) ½" NB to 14 NB       | (WT) All Schedule From     | (Sch 20 To XXS)           |
| ERW PIPES                           | (OD) ½" NB to 6 NB        | (WT) Light ,Medium, Heavy  | (A,B,C Class)             |
|                                     | (OD) 168.3 mm to 20"      | (WT) 4 mm to 12.7 mm       |                           |

## PVC Pipes –

| DIMENSION OF UPVC PIPES (in mm) IS : 4985/2000<br>WALL THICKNESS |             |            |          |          |           |           |             |
|------------------------------------------------------------------|-------------|------------|----------|----------|-----------|-----------|-------------|
| SIZE                                                             | TOLERNACE   | CLASS-I    | CLASS-II | CLASS-IN | CLASS-IV  | CLASS-V   | CLASS-VI    |
| OUT SIDE                                                         | ON OUT SIDE | 2.5 Kg/cm2 | 4 Kg/cm2 | 6 Kg/cm2 | 8 Kgf/cm2 | 10Kgf/cm2 | 12.5kgf/cm2 |

| DIAMETER | DIAMETER | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
|----------|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50       | +0.3     | -    |      |      |      | 1.7  | 2.1  | 2.3  | 2.8  | 2.8  | 3.3  | 3.4  | 4.0  |
| 63       | +0.3     | -    |      | 1.5  | 1.9  | 2.2  | 2.7  | 2.8  | 3.3  | 3.5  | 4.1  | 4.3  | 5.0  |
| 75       | +0.3     | -    |      | 1.8  | 2.2  | 2.6  | 3.1  | 3.4  | 4.0  | 4.2  | 4.9  | 5.1  | 5.9  |
| 90       | +0.3     | 1.3  | 1.7  | 2.1  | 2.6  | 3.1  | 3.7  | 4.0  | 4.6  | 5.0  | 5.7  | 6.1  | 7.1  |
| 110      | +0.4     | 1.6  | 2.0  | 2.5  | 3.0  | 3.7  | 4.3  | 4.9  | 5.6  | 6.1  | 7.1  | 7.5  | 8.7  |
| 125      | +0.4     | 1.8  | 2.2  | 2.9  | 3.4  | 4.3  | 5.0  | 5.6  | 6.4  | 6.9  | 8.0  | 8.5  | 9.8  |
| 140      | +0.5     | 2.0  | 2.4  | 3.2  | 3.8  | 4.8  | 5.5  | 6.3  | 7.3  | 7.7  | 8.9  | 9.5  | 11.0 |
| 160      | +0.5     | 2.3  | 2.8  | 3.7  | 4.3  | 5.4  | 6.2  | 7.2  | 8.3  | 8.8  | 10.2 | 10.9 | 12.6 |
| 180      | +0.6     | 2.6  | 3.1  | 4.2  | 4.9  | 6.1  | 7.1  | 8.0  | 9.2  | 9.9  | 11.4 | 12.2 | 14.1 |
| 200      | +0.6     | 2.9  | 3.4  | 4.6  | 5.3  | 6.8  | 7.9  | 8.9  | 10.3 | 11.0 | 12.7 | 13.6 | 15.7 |
| 225      | +0.7     | 3.3  | 3.9  | 5.2  | 6.0  | 7.6  | 8.8  | 10.0 | 11.5 | 12.4 | 14.3 | 15.3 | 17.6 |
| 250      | +0.8     | 3.6  | 4.2  | 5.7  | 6.5  | 8.5  | 9.8  | 11.2 | 12.9 | 13.8 | 15.9 | 17.0 | 19.6 |
| 280      | +0.9     | 4.1  | 4.8  | 6.4  | 7.4  | 9.5  | 11.0 | 12.5 | 14.4 | 15.4 | 17.8 | 19.0 | 21.9 |

|     |      |     |     |     |     |      |      |      |      |      |      |      |      |
|-----|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 315 | +1.0 | 4.6 | 5.3 | 7.2 | 8.3 | 10.7 | 12.4 | 14.0 | 16.1 | 17.3 | 19.9 | 21.4 | 24.7 |
|-----|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|

| DIMENSION OF CASING PIPES (in mm) IS : 12818/92 |                  |       |                              |      |                               |      |
|-------------------------------------------------|------------------|-------|------------------------------|------|-------------------------------|------|
| NOMINAL                                         | OUTSIDE DIAMETER |       | WALLTHICKNESS CM CASING PIPE |      | WALL THICKNESS CS CASING PIPE |      |
| DIAMETER                                        | MIN.             | MAX.  | MIN.                         | MAX. | MIN.                          | MAX. |
| 40                                              | 48.0             | 48.2  | 3.5                          | 4.0  | -                             |      |
| 50                                              | 60.0             | 60.2  | 4.0                          | 4.6  | -                             |      |
| 80                                              | 88.0             | 88.3  | 4.0                          | 4.6  | -                             |      |
| 100                                             | 113.0            | 113.3 | 5.0                          | 5.7  | -                             |      |
| 125                                             | 140.0            | 140.4 | 6.5                          | 7.3  | -                             |      |
| 150                                             | 165.0            | 165.4 | 7.5                          | 8.5  | 5.7                           | 6.5  |
| 175                                             | 200.0            | 200.5 | 8.8                          | 9.8  | 7.0                           | 7.8  |
| 200                                             | 225.0            | 225.5 | 10.0                         | 11.2 | 7.6                           | 8.8  |
| 250                                             | 280.0            | 280.5 | 12.5                         | 14.0 | 9.6                           | 11.0 |

| DIMENSION OF RIBBED SCREEN (in mm) IS:12818/92 |                  |                                |                             |
|------------------------------------------------|------------------|--------------------------------|-----------------------------|
| NOMINAL DIAMETER                               | OUTSIDE DIAMETER | OUTER DIAMETER OVER CONNECTION | WALL THICKNESS (under RIBS) |

|     |       |       | MIN. | MAX. |
|-----|-------|-------|------|------|
| 40  | 52.0  | 56.0  | 3.5  | 4.0  |
| 50  | 64.0  | 69.0  | 4.0  | 4.6  |
| 80  | 92.0  | 98.0  | 4.0  | 4.6  |
| 100 | 117.0 | 124.0 | 5.0  | 5.7  |
| 125 | 144.0 | 154.0 | 6.5  | 7.3  |
| 150 | 164.0 | 182.0 | 7.5  | 8.5  |
| 175 | 204.0 | 219.0 | 8.8  | 9.8  |
| 200 | 229.0 | 247.0 | 10.0 | 11.0 |

| DIMENSIONS OF PVC THREADED PIPE MADE TO ASTM-D-1785 &<br>THREADED TO MATCH G. I. PIPES AS PER IS : 1239 (Part-I) |          |             |          |             |          |
|------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|-------------|----------|
|                                                                                                                  |          | SCHEDULE 40 |          | SCHEDULE 80 |          |
| NOMINAL PIPE                                                                                                     | OUTSIDE  | WALL        | PRESSURE | WALL        | PRESSURE |
| SIZE IN                                                                                                          | DIAMETER | THICKNESS   | RATING   | THICKNESS   | RATING   |
| INCHES                                                                                                           | IN MM    | IN MM       | BAR      | IN MM       | BAR      |
| 15 mm (½")                                                                                                       | 21.2     | 2.8         | 20.5     | 3.7         | 29       |
| 20mm (⅝")                                                                                                        | 26.6     | 2.9         | 16.5     | 3.9         | 23       |
| 25mm (1")                                                                                                        | 33.3     | 3.4         | 15.6     | 4.5         | 22       |

|               |       |     |      |      |     |
|---------------|-------|-----|------|------|-----|
| 32mm (1 1/4") | 42.0  | 3.6 | 12.5 | 4.9  | 18  |
| 40mm (1 1/2") | 48.1  | 3.7 | 11.5 | 5.1  | 16  |
| 50mm (2")     | 60.2  | 3.9 | 10.5 | 5.5  | 15  |
| 65mm (2 1/2") | 72.8  | 5.2 | 9.5  | 7.0  | 14  |
| 80mm (3")     | 88.7  | 5.5 | 9.0  | 7.6  | 13  |
| 100mm (4")    | 114.1 | 6.0 | 7.5  | 8.6  | 11  |
| 125mm (5")    | 141.0 | 6.0 | 6.5  | 9.5  | 10  |
| 150mm (6")    | 168.0 | 7.1 | 6.0  | 11.0 | 9.7 |
| 200mm (8")    | 218.7 | 8.2 | 5.5  | 12.7 | 8.3 |
| 250mm (10")   | 272.7 | 9.3 | 4.9  | 15.1 | 8.3 |

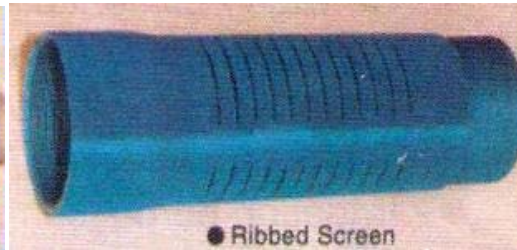
### SALIENT FEATURES OF UPVC PIPES

1. Highly economical vis a vis metal and all other conventional pipes.
2. Light weight facilitates very easy handling and installation.
3. Virtually immune to all sorts of corrosion, most ideal for saline and other corrosive condition.
4. Smooth inner surface causes high flow rate of liquid - much less load on pump-enormous saving of power.
5. Non-toxic, odourless and Hygienic - Ideal for potable waterlines.
6. Excellent elastic property ensures resistance to soil movement.
7. Fire resistant-Self Extinguishing.
8. Very easy jointing methods.
9. Long service life/durability.



## MAJOR APPLICATION AREAS

- Rural & Urban water supply projects.
- Sewage / effluent disposal and Rain water drainage.
- Water distribution lines in domestic segment / housing projects
- Sugar / Chemical / other process industries
- Telecommunication / Cable ducting
- Irrigation purpose in Tea gardens.



## All Other Products –



Casing, Tubing line pipe and high test pressure line pipe

API-5L& IS3589 Gr. A & B



Tubes for Pressure Purposes Ordinary Duties

BS : 806/54 Clases A & B

BS : 3601 Gr. 22, 27 & 35

IS : 9295 Idlers & Conveyors



Tubes for low temperature services

BS : 3603 Gr. 27 LT, 3C & 27 LT 50

A : 333 Gr. 1 & 6

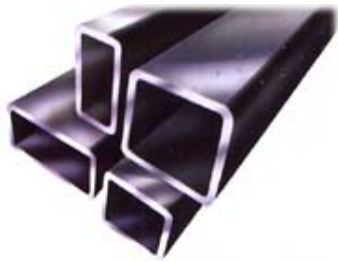
A : 334 Gr. 1 & 6



Tubes for high temperature services

ASTM-A-106 Gr. A & B

ASTM-A-335 Gr. P1, P5, P11 & P22



Square & Rectangular Hollow section Tubes for structural & general engineering purpose



CASING PIPES



APPLICATION



LARGE DIAMETER PIPES



LARGE DIAMETER PIPES



PIPES FITTINGS



PIPES FITTINGS



SMALL DIAMETER PIPES



SMALL DIAMETER PIPES

## Product Specification \_\_\_\_\_

This page gives the precise detail of products in the form of tables divided in four tables which can be seen in here.

| SPECIFICATIONS OF MS/CS PIPES AND TUBES |                                                                                                   |                                                                                |
|-----------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1) For Cycle and Motor Cycles           | IS 2039/1964/1981/1991 ERW-C1/C2;<br>CEW-C1/C2 BS 171/1951/1983 ERW-C1/C2/C3/;                    | CEW-C1/C2/C3                                                                   |
| 2) For Automobiles                      | IS 3074/1965/1979/1990 ERW-1/2,<br>CEW- 1/2 BS 6323/1982/ P5 ERW;<br>P6 CEW BS 980/1950/ ERW-1/2; | CEW-1/2 JIS 3445/1983 STKM 11/12/13<br>DIN 2393/1967 ERW;<br>DIN 2394/1957 CEW |

|                                                    |                                                                                                                                                                                                                                 |                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 3) For Boilers and Heat Exchangers                 | IS1914/1961/1977/1982/1990<br>ERW-320CEW-320<br>BS3059/1968/1978/1987/1990<br>PI ERW-320;CEW-320<br>PII ERW-360; CEW-360                                                                                                        | ASTM A178/1989 Gr.A<br>ASTM A214/1988<br>JIS 3461/1984 STB35                                                                            |
| 4) For Mechanical, Strural and General Engineering | IS/3601/1966/1984/1987/1990 ERW WT<br>160/200/240<br>CEW Annealed CEW 160/200/240<br>CEW As drawn CEW370/430<br>BS 6323/1982/P5 ERW; P6CEW<br>BS 1775/1964 ERW-11; CEW-11/24<br>JIS 3445/1983 STKM11/12/13<br>DIN 2393/1967/ERW | DIN 2394/1957 CEW<br>ASTM A513/88<br>ASTM 500/89 Gr.A,Gr.B<br>IS 1161/1979 ERW YST 210/240<br>IS 1239/1969 P1<br>JIS 3444/1982 STK30/41 |
| 5) Pipe for Pressure Applications                  | API 5L/1990<br>ASTM A53/89 Gr.A, Gr.B                                                                                                                                                                                           | BS 1387/1985                                                                                                                            |
| 6)Section/ Shape Tubes                             | IS 4923/1985/1990 ERW YST 210/240                                                                                                                                                                                               | JIS G 3466/82 STKR 41                                                                                                                   |
| 7) Furniture                                       | IS 7138/1977/1988 ERW                                                                                                                                                                                                           |                                                                                                                                         |
| 8)Idler tubes                                      | IS 8036/1983/1990 EW 210/240                                                                                                                                                                                                    |                                                                                                                                         |
| 9) Round/Elliptical Transformer tubes              | IS 8036/1976/1988 ERW                                                                                                                                                                                                           |                                                                                                                                         |

|                                                    |                                 |                      |
|----------------------------------------------------|---------------------------------|----------------------|
| 10) Seamless redrawing                             | ASTM A179/88 A210/88 Gr.A1      | ASTM A106/Gr.A, Gr.B |
| 11) Propeller ERW & CEW                            | To TPI specifications           |                      |
| 12) Bobbin Tubes CEW                               | To TPI specifications           |                      |
| 13) For Water & GAs Tubes                          | IS 1239 (PART 1) 1990           |                      |
| 14) For Structural Purposes                        | IS 1161-1979 STEELTUBES         |                      |
| 15) For Idlers for Belt Conveyors                  | IS 9295-1983                    |                      |
| 16) For water Gas and Sewage                       | IS 3589-1991/BS 534             |                      |
| 17) For Line Pipe                                  | IS 1978-1982, API-52, ASTM A-53 |                      |
| 18) For Rigid Steel Conduits for Electrical Wiring | IS 2667-1988                    |                      |
| 19) For Conduits for Electrical Wiring             | IS 9538 (Part I & II )-1981     |                      |

| STAINLESS STEEL TUBES SPECIFICATIONS |                                 |                               |                                 |              |               |                                                                     |                                                                               |
|--------------------------------------|---------------------------------|-------------------------------|---------------------------------|--------------|---------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Grade<br>TP                          | Tensile<br>strength<br>ksi(MPa) | Yield<br>strength<br>ksi(MPa) | Elongation in 2<br>inches % min | Max.Hardness |               | Thermal conductivity<br>cal/Sec. Cm.°C. at Tem.<br>Range 20-500 ° C | Co-efficient of expansion<br>X 106 Cm/Cm/ ° C at<br>Temp.<br>range 20-870 ° C |
|                                      |                                 |                               |                                 | Brinnel      | Rockwel<br>°B |                                                                     |                                                                               |
| 304                                  | 75(515)                         | 30(205)                       | 35                              | 200          | 90            | 0.051                                                               | 19.8                                                                          |
| 304L                                 | 70(485)                         | 25(170)                       | 35                              | 200          | 90            | 0.051                                                               | 19.8                                                                          |
| 310                                  | 75(515)                         | 30(205)                       | 35                              | 200          | 90            | 0.044                                                               | 18.8                                                                          |
| 316                                  | 75(515)                         | 30(205)                       | 35                              | 200          | 90            | 0.042                                                               | 19.3                                                                          |
| 316L                                 | 70(485)                         | 25(170)                       | 35                              | 200          | 90            | 0.042                                                               | 19.3                                                                          |
| 316Ti                                | 70(540)                         | 30(205)                       | 35                              | 200          | 90            | 0.042                                                               | 19.3                                                                          |
| 321                                  | 75(515)                         | 30(205)                       | 35                              | 200          | 90            | 0.051                                                               | 19.8                                                                          |
| 317L                                 | 75(515)                         | 30(205)                       | 35                              | 200          | 90            | 0.049                                                               | 17.5                                                                          |

| STANDARD SIZES & WEIGHTS OF PIPES |                  |    |                |    |           |             |                |       |      |                   |         |     |         |     |       |
|-----------------------------------|------------------|----|----------------|----|-----------|-------------|----------------|-------|------|-------------------|---------|-----|---------|-----|-------|
| Norma<br>I<br>Size                | Outside Diameter |    | Wall Thickness |    | Clas<br>s | Sched<br>No | Plain End      |       |      |                   |         |     |         |     |       |
|                                   |                  |    |                |    |           |             | Nominal Weight |       |      | Test Pressure min |         |     |         |     |       |
|                                   |                  |    |                |    |           |             |                |       |      | Butt Welded       | Grade A |     | Grade B |     |       |
| in                                | in               | mm | in             | mm |           |             | lb/ft          | kg/ft | kg/m | psi               | kg/cm   | psi | kg/cm2  | psi | kg/cm |

|       |       |      |      |     |     |      |      |      |      |       |      |       |       |       |       |
|-------|-------|------|------|-----|-----|------|------|------|------|-------|------|-------|-------|-------|-------|
|       |       |      |      |     |     |      |      |      |      |       | 2    |       |       |       | 2     |
| 1/8   | .405  | 10.3 | .068 | 1.7 | std | 40   | .24  | .11  | .36  | 700   | 49.2 | 700   | 49.2  | 700   | 49.2  |
|       |       |      | .095 | 2.4 | xs  | 80   | .31  | .14  | .46  | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
| 1/4   | .540  | 13.7 | .088 | 2.2 | std | 40   | .42  | .19  | .63  | 700   | 49.2 | 700   | 49.2  | 700   | 49.2  |
|       |       |      | .119 | 3.0 | xs  | 80   | .54  | .24  | .80  | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
| 3/8   | .675  | 17.1 | .091 | 2.3 | std | 40   | .57  | .26  | .85  | 700   | 49.2 | 700   | 49.2  | 700   | 49.2  |
|       |       |      | .126 | 3.2 | xs  | 80   | .74  | .34  | 1.10 | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
| 1/2   | .840  | 21.3 | .109 | 2.8 | std | 40   | .85  | .39  | 1.26 | 700   | 49.2 | 700   | 49.2  | 700   | 49.2  |
|       |       |      | .147 | 3.7 | xs  | 80   | 1.09 | .49  | 1.26 | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
|       |       |      | .294 | 7.5 | xxs | .... | 1.71 | .78  | 2.54 | 1,000 | 70.3 | 1,000 | 70.3  | 1,000 | 70.3  |
| 3/4   | 1.050 | 26.7 | .113 | 2.9 | std | 40   | 1.13 | .51  | 1.68 | 700   | 49.2 | 700   | 49.2  | 700   | 49.8  |
|       |       |      | .154 | 3.9 | xs  | 80   | 1.47 | .67  | 2.19 | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
|       |       |      | .308 | 7.8 | xxs | ...  | 2.44 | 1.11 | 3.63 | 1,000 | 70.3 | 1,000 | 70.3  | 1,000 | 70.3  |
| 1     | 1.315 | 33.4 | .133 | 3.4 | std | 40   | 1.68 | .76  | 2.50 | 700   | 49.2 | 700   | 49.2  | 700   | 49.2  |
|       |       |      | .179 | 4.5 | xs  | 80   | 2.17 | .98  | 3.23 | 850   | 59.8 | 850   | 59.8  | 850   | 59.8  |
|       |       |      | .358 | 9.1 | xxs | ...  | 3.66 | 1.66 | 5.45 | 1,000 | 70.3 | 1,000 | 70.3  | 1,000 | 70.3  |
| 1 1/4 | 1.660 | 42.2 | .140 | 3.6 | std | 40   | 2.27 | 1.03 | 3.38 | 1,000 | 70.3 | 1,000 | 70.3  | 1,000 | 77.3  |
|       |       |      | .191 | 4.9 | xs  | 80   | 3.00 | 1.36 | 4.46 | 1,300 | 91.4 | 1,500 | 145.5 | 1,600 | 112.5 |

|       |       |       |      |      |      |     |       |      |       |       |      |       |       |       |       |
|-------|-------|-------|------|------|------|-----|-------|------|-------|-------|------|-------|-------|-------|-------|
|       |       |       | .382 | 9.7  | xxs  | ... | 5.21  | 2.36 | 7.75  | 1,400 | 98.4 | 1,800 | 126.6 | 1,900 | 133.6 |
| 1 1/2 | 1.900 | 48.3  | .145 | 3.7  | std  | 40  | 2.72  | 1.23 | 4.05  | 1,000 | 70.3 | 1,000 | 70.3  | 1,100 | 77.3  |
|       |       |       | .200 | 5.1  | xs   | 80  | 3.63  | 1.65 | 5.40  | 1,300 | 91.4 | 1,500 | 105.5 | 1,600 | 112.5 |
|       |       |       | .400 | 10.2 | xxs  | ... | 6.41  | 2.91 | 9.54  | 1,400 | 98.4 | 1,800 | 126.6 | 1,900 | 133.6 |
| 2     | 2.375 | 60.3  | .154 | 3.9  | std  | 40  | 3.65  | 1.66 | 5.43  | 1,000 | 70.3 | 2,300 | 161.7 | 2,500 | 175.8 |
|       |       |       | .218 | 5.5  | xs   | 80  | 5.02  | 2.28 | 7.47  | 1,300 | 91.4 | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .344 | 8.8  | .... | 160 | 7.46  | 3.38 | 11.10 |       |      | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .436 | 11.1 | xxs  | ... | 9.03  | 4.10 | 13.44 | 1,400 | 98.4 | 2,500 | 175.8 | 2,500 | 175.8 |
| 2 1/2 | 2.875 | 73.0  | .203 | 5.2  | std  | 40  | 5.79  | 2.63 | 8.62  | 1,000 | 70.3 | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .276 | 7.0  | xs   | 80  | 7.66  | 3.47 | 11.40 | 1,300 | 91.4 | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .375 | 9.5  | ...  | 160 | 10.01 | 4.54 | 14.90 | 1,400 | 98.4 | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .552 | 14.0 | xxs  | ... | 13.70 | 6.21 | 20.39 | 1,400 | 98.4 | 2,500 | 175.8 | 2,500 | 175.8 |
| 3     | 3.500 | 88.9  | .188 | 4.8  | ...  | ..  | 6.63  | 3.01 | 9.87  | 1,000 | 70.3 | ...   | ...   | ...   | ..    |
|       |       |       | .216 | 5.5  | std  | 40  | 7.58  | 3.44 | 11.28 | 1,000 | 70.3 | 2,200 | 154.7 | 2,500 | 175.8 |
|       |       |       | .300 | 7.6  | xs   | 80  | 10.25 | 4.65 | 15.25 | 1,300 | 91.4 | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .438 | 11.1 | ...  | 160 | 14.31 | 6.49 | 21.30 | ...   | ...  | 2,500 | 175.8 | 2,500 | 175.8 |
|       |       |       | .600 | 15.2 | xxs  | ... | 18.58 | 8.43 | 27.65 | ...   | .... | 2,500 | 175.8 | 2,500 | 175.8 |
| 3 1/2 | 4.000 | 101.6 | .188 | 4.8  | ...  | ... | 7.63  | 3.46 | 11.35 | 1,200 | 84.4 | ...   | ...   | ...   | ....  |
|       |       |       | .226 | 5.7  | std  | 40  | 9.11  | 4.13 | 13.56 | 1,200 | 84.4 | 2,000 | 140.6 | 2,400 | 168.7 |

|   |       |       |      |      |     |     |       |       |       |       |       |       |       |       |       |
|---|-------|-------|------|------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   |       |       | .318 | 8.1  | xs  | 80  | 12.51 | 5.67  | 18.62 | 1,700 | 119.5 | 2,800 | 196.9 | 2,800 | 196.9 |
| 4 | 4.500 | 114.3 | .156 | 4.0  | ... | ... | 7.25  | 3.29  | 10.79 | 1,000 | 70.3  | ...   | ..    | ..    | ..    |
|   |       |       | .188 | 4.8  | ... | ... | 8.64  | 3.92  | 12.86 | 1,200 | 84.4  | ...   | ...   | ..    | ...   |
|   |       |       | .219 | 5.6  | ..  | ..  | 10.00 | 4.54  | 14.88 | 1,200 | 84.4  | ...   | ...   | ...   | ..    |
|   |       |       | .237 | 6.0  | std | 40  | 10.79 | 4.89  | 16.06 | 1,200 | 84.4  | 1,900 | 133.6 | 2,200 | 154.7 |
|   |       |       | .337 | 8.6  | xs  | 80  | 14.98 | 6.79  | 22.29 | 1,700 | 119.5 | 2,700 | 189.8 | 2,800 | 196.9 |
|   |       |       | .438 | 11.1 | ... | 120 | 18.98 | 8.61  | 28.25 | ..    | ..    | 2,800 | 196.9 | 2,800 | 196.9 |
|   |       |       | .531 | 13.5 | ... | 160 | 22.52 | 10.21 | 33.51 | ...   | ..    | 2,800 | 196.9 | 2,800 | 196.9 |
|   |       |       | .674 | 17.1 | xxs | ... | 27.54 | 12.49 | 40.98 | ...   | ..    | 2,800 | 196.9 | 2,800 | 196.9 |
| 5 | 5.563 | 141.3 | .258 | 6.6  | std | 40  | 14.62 | 6.63  | 21.76 | ...   |       | 1,700 | 119.5 | 1,900 | 133.6 |
|   |       |       | .375 | 9.5  | xs  | 80  | 20.78 | 9.43  | 30.92 | ...   | ..    | 2,400 | 168.7 | 2,800 | 196.9 |
|   |       |       | .500 | 12.7 | ... | 120 | 27.04 | 12.27 | 40.24 | ..    | ...   | 2,800 | 196.9 | 2,800 | 196.9 |
|   |       |       | .625 | 15.9 | ... | 160 | 32.96 | 14.95 | 49.05 | ...   | ...   | 2,800 | 196.9 | 2,800 | 196.9 |
|   |       |       | .750 | 19.0 | xxs | ..  | 38.55 | 17.49 | 57.37 | ...   | ...   | 2,800 | 196.9 | 2,800 | 196.9 |

### SIZES & DETAILS OF PRODUCTS MS/CS PIPES

| Normal<br>Size | Outside<br>Diameter |    | Wall<br>Thickness |    | Clas<br>s | Sche<br>d No | Plain End     |       |      |                   |       |         |        |         |        |
|----------------|---------------------|----|-------------------|----|-----------|--------------|---------------|-------|------|-------------------|-------|---------|--------|---------|--------|
|                |                     |    |                   |    |           |              | Normal Weight |       |      | Test Pressure min |       |         |        |         |        |
|                |                     |    |                   |    |           |              |               |       |      | Butt Welded       |       | Grade A |        | Grade B |        |
| in             | in                  | mm | in                | mm |           |              | lb/ft         | kg/ft | kg/m | psi               | kg/cm | psi     | kg/cm2 | psi     | kg/cm2 |

|    |       |       |      |      |     |     |       |       |            |  |   |       |       |            |       |
|----|-------|-------|------|------|-----|-----|-------|-------|------------|--|---|-------|-------|------------|-------|
|    |       |       |      |      |     |     |       |       |            |  | 2 |       |       |            |       |
| 6  | 6.625 | 168.3 | .280 | 7.1  | std | 40  | 18.97 | 8.60  | 28.23      |  |   | 1,500 | 105.5 | 1,800      | 126.6 |
|    |       |       | .432 | 11.0 | xs  | 80  | 28.57 | 12.96 | 42.52      |  |   | 2,300 | 161.7 | 2,700      | 189.8 |
|    |       |       | .562 | 14.3 |     | 120 | 36.42 | 16.52 | 54.20      |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
|    |       |       | .719 | 18.3 |     | 160 | 45.34 | 20.57 | 67.47      |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
|    |       |       | .864 | 21.9 | xxs | ..  | 53.16 | 24.11 | 79.11      |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
| 8  | 8.625 | 219.1 | .250 | 6.4  |     | 20  | 22.36 | 10.14 | 33.28      |  |   | 1,000 | 70.3  | 1,200      | 84.4  |
|    |       |       | .277 | 7.0  |     | 30  | 24.70 | 11.20 | 36.76      |  |   | 1,200 | 84.4  | 1,300      | 91.4  |
|    |       |       | .322 | 8.2  | std | 40  | 28.55 | 12.95 | 42.49      |  |   | 1,300 | 91.4  | 1,600      | 112.5 |
|    |       |       | .406 | 10.3 |     | 60  | 35.66 | 16.18 | 53.07      |  |   | 1,700 | 119.5 | 2,00       | 140.6 |
|    |       |       | .500 | 12.7 | xs  | 80  | 43.39 | 19.68 | 64.57      |  |   | 2,100 | 147.7 | 2,400      | 168.7 |
|    |       |       | .594 | 15.1 |     | 100 | 50.93 | 23.10 | 75.79      |  |   | 2,500 | 175.8 | 2,8002,800 | 196.9 |
|    |       |       | .719 | 18.3 |     | 120 | 60.69 | 27.53 | 90.32      |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
|    |       |       | .812 | 20.6 |     | 140 | 67.79 | 30.75 | 100.8<br>8 |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
|    |       |       | .875 | 22.2 | xxs | ... | 72.42 | 32.85 | 107.7<br>7 |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
|    |       |       | .906 | 23.0 |     | 160 | 74.71 | 33.89 | 111.1<br>8 |  |   | 2,800 | 196.9 | 2,800      | 196.9 |
| 10 | 10.75 | 273.0 | .250 | 6.4  |     | 20  | 28.04 | 12.72 | 41.73      |  |   | 850   | 59.8  | 1,000      | 70.3  |

|    |            |       |       |      |     |     |        |       |            |  |  |       |       |       |       |
|----|------------|-------|-------|------|-----|-----|--------|-------|------------|--|--|-------|-------|-------|-------|
|    | 0          |       |       |      |     |     |        |       |            |  |  |       |       |       |       |
|    |            |       | .279  | 7.1  |     | ..  | 31.20  | 14.15 | 46.43      |  |  | 850   | 66.8  | 1,100 | 77.3  |
|    |            |       | .307  | 7.8  |     | 30  | 34.24  | 15.53 | 50.95      |  |  | 1,000 | 70.3  | 1,200 | 84.4  |
|    |            |       | .365  | 9.3  | std | 40  | 40.48  | 18.36 | 60.24      |  |  | 1,200 | 84.4  | 1,400 | 98.4  |
|    |            |       | .500  | 12.7 | xs  | 60  | 54.75  | 24.83 | 81.46      |  |  | 1,700 | 119.5 | 2,000 | 140.6 |
|    |            |       | .594  | 15.1 |     | 80  | 64.40  | 29.21 | 95.84      |  |  | 2,000 | 140.6 | 2,300 | 161.7 |
|    |            |       | .719  | 18.3 |     | 100 | 77.00  | 34.93 | 114.5<br>9 |  |  | 2,400 | 168.7 | 2,800 | 196.9 |
|    |            |       | .844  | 21.4 |     | 120 | 89.27  | 40.49 | 132.8<br>5 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.000 | 25.4 | xxs | 140 | 104.13 | 47.23 | 154.9<br>6 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.125 | 28.6 |     | 160 | 115.65 | 52.46 | 172.1<br>1 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
| 12 | 12.75<br>0 | 323.8 | .250  | 6.4  |     | 20  | 33.38  | 15.14 | 49.67      |  |  | 700   | 49.2  | 800   | 56.2  |
|    |            |       | .330  | 8.4  |     | 30  | 43.77  | 19.85 | 15.14      |  |  | 95    | 66.8  | 1,100 | 77.3  |
|    |            |       | .375  | 9.5  | std | ... | 49.56  | 22.48 | 73.75      |  |  | 1,100 | 77.3  | 1,200 | 84.4  |
|    |            |       | .406  | 10.3 |     | 40  | 53.56  | 24.29 | 79.71      |  |  | 1,100 | 77.3  | 1,300 | 91.4  |
|    |            |       | .500  | 12.7 | xs  | ... | 65.42  | 19.67 | 97.36      |  |  | 1,400 | 98.4  | 1,600 | 112.5 |
|    |            |       | .562  | 14.3 |     | 60  | 73.22  | 33.21 | 108.9      |  |  | 1,600 | 112.5 | 1,900 | 133.6 |

|    |            |       |       |      |     |     |        |       |            |  |  |       |       |       |       |
|----|------------|-------|-------|------|-----|-----|--------|-------|------------|--|--|-------|-------|-------|-------|
|    |            |       |       |      |     |     |        |       | 6          |  |  |       |       |       |       |
|    |            |       | .688  | 17.5 |     | 80  | 88.57  | 40.17 | 131.8<br>1 |  |  | 1,900 | 133.6 | 2,300 | 161.7 |
|    |            |       | .844  | 21.4 |     | 100 | 107.29 | 48.67 | 159.6<br>6 |  |  | 2,400 | 168.7 | 2,800 | 196.9 |
|    |            |       | 1.000 | 25.4 | xxs | 120 | 125.49 | 56.92 | 186.7<br>5 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.125 | 28.6 |     | 140 | 139.68 | 63.36 | 207.8<br>7 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.312 | 33.3 |     | 160 | 160.33 | 72.72 | 238.6<br>0 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
| 14 | 14.00<br>0 | 355.6 | .250  | 6.4  |     | 10  | 36.71  | 16.65 | 54.63      |  |  | 650   | 45.7  | 1,100 | 52.7  |
|    |            |       | .312  | 7.9  |     | 20  | 45.68  | 20.72 | 67.98      |  |  | 800   | 56.2  | 750   | 66.8  |
|    |            |       | .375  | 9.5  | std | 30  | 54.57  | 24.75 | 81.21      |  |  | 950   | 66.8  | 950   | 77.3  |
|    |            |       | .438  | 11.1 |     | 40  | 63.37  | 28.74 | 94.30      |  |  | 1,100 | 77.3  | 1,100 | 91.4  |
|    |            |       | .500  | 12.7 | xs  | ... | 72.09  | 32.70 | 107.2<br>8 |  |  | 1,300 | 91.4  | 1,300 | 105.5 |
|    |            |       | .594  | 15.1 |     | 60  | 85.01  | 38.56 | 126.5<br>1 |  |  | 1,500 | 105.5 | 1,500 | 126.6 |
|    |            |       | .750  | 19.0 |     | 80  | 106.13 | 48.14 | 157.9<br>4 |  |  | 1,900 | 133.6 | 2,800 | 161.7 |

|    |            |       |       |      |     |     |        |       |            |  |  |       |       |       |       |
|----|------------|-------|-------|------|-----|-----|--------|-------|------------|--|--|-------|-------|-------|-------|
|    |            |       | .938  | 18.8 |     | 100 | 130.79 | 59.33 | 194.6<br>4 |  |  | 2,400 | 168.7 | 2,800 | 196.9 |
|    |            |       | 1.094 | 27.8 |     | 120 | 150.76 | 68.38 | 224.3<br>6 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.250 | 31.8 |     | 140 | 170.22 | 77.21 | 253.3<br>1 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|    |            |       | 1.406 | 35.7 |     | 160 | 189.15 | 85.80 | 281.4<br>9 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
| 16 | 16.00<br>0 | 406.4 | .250  | 6.4  |     | 10  | 42.05  | 19.07 | 62.53      |  |  | 550   | 38.7  | 650   | 45.7  |
|    |            |       | .312  | 7.0  |     | 20  | 52.36  | 23.75 | 77.92      |  |  | 700   | 49.2  | 800   | 56.2  |
|    |            |       | .375  | 9.5  | std | 30  | 62.58  | 28.39 | 93.13      |  |  | 850   | 59.8  | 1,00  | 70.3  |
|    |            |       | .500  | 12.7 | xs  | 40  | 82.77  | 37.54 | 123.1<br>8 |  |  | 1,100 | 77.3  | 1,300 | 91.4  |
|    |            |       | .656  | 16.7 |     | 60  | 107.54 | 48.78 | 160.0<br>4 |  |  | 1,500 | 105.5 | 1,700 | 119.5 |
|    |            |       | .844  | 21.4 |     | 80  | 136.58 | 61.95 | 203.2<br>5 |  |  | 1,900 | 133.6 | 2,200 | 154.7 |
|    |            |       | 1.031 | 26.2 |     | 100 | 164.86 | 74.78 | 245.3<br>4 |  |  | 2,300 | 161.7 | 2,700 | 189.8 |
|    |            |       | 1.219 | 31.0 |     | 120 | 192.40 | 87.27 | 286.3<br>2 |  |  | 2,700 | 189.8 | 2,800 | 196.9 |

|  |  |  |       |      |  |     |        |            |            |  |  |       |       |       |       |
|--|--|--|-------|------|--|-----|--------|------------|------------|--|--|-------|-------|-------|-------|
|  |  |  | 1.438 | 36.5 |  | 140 | 223.57 | 101.4<br>1 | 332.7<br>1 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |
|  |  |  | 1.594 | 40.5 |  | 160 | 245.22 | 111.2<br>3 | 364.9<br>3 |  |  | 2,800 | 196.9 | 2,800 | 196.9 |

| STAINLESS STEEL TUBES DIMENSIONS AND WEIGHT |        |                        |                            |        |                            |        |                            |        |                            |        |
|---------------------------------------------|--------|------------------------|----------------------------|--------|----------------------------|--------|----------------------------|--------|----------------------------|--------|
| NORMAL                                      |        | NOMINAL WALL THICKNESS |                            |        |                            |        |                            |        |                            |        |
| DIAMETER                                    |        | OUTSIDE<br>DIA.        | SCHDULE 5S                 |        | SCHEDULE 10S               |        | SCHEDULE 40                |        | SCHEDULE 80                |        |
| A                                           | B      |                        | WALL<br>THICKNESS (M<br>M) | Weight | WALL<br>THICKNESS (M<br>M) | Weight | WALL<br>THICKNESS (M<br>M) | Weight | WALL<br>THICKNESS (M<br>M) | Weight |
| MM                                          | INCHES |                        |                            | KG/M   |                            | KG/M   |                            | KG/M   |                            | KG/M   |
| 6                                           | 1/4    | 13.7                   | 1.24                       | 0.390  | 1.65                       | 0.500  | 2.24                       | 0.640  | 3.02                       | 0.797  |
| 10                                          | 3/8    | 17.1                   | 1.24                       | 0.490  | 1.65                       | 0.630  | 2.31                       | 0.860  | 3.02                       | 1.100  |
| 15                                          | 1/2    | 21.3                   | 1.65                       | 0.810  | 2.11                       | 1.000  | 2.77                       | 1.290  | 3.75                       | 1.620  |
| 20                                          | 3/4    | 26.7                   | 1.65                       | 1.030  | 2.11                       | 1.270  | 2.87                       | 1.710  | 3.91                       | 2.200  |
| 25                                          | 1      | 33.4                   | 1.65                       | 1.310  | 2.77                       | 2.090  | 3.38                       | 2.540  | 4.55                       | 3.270  |
| 32                                          | 1 1/4  | 42.2                   | 1.65                       | 1.670  | 2.77                       | 2.690  | 3.56                       | 3.440  | 4.85                       | 4.460  |
| 40                                          | 1 1/2  | 48.3                   | 1.65                       | 1.930  | 2.77                       | 3.110  | 3.68                       | 4.120  | 5.08                       | 5.410  |
| 50                                          | 2      | 60.3                   | 1.65                       | 2.420  | 2.77                       | 3.937  | 3.91                       | 5.530  | 5.54                       | 7.480  |
| 65                                          | 2 1/2  | 73.00                  | 2.11                       | 3.750  | 3.05                       | 5.249  | 5.16                       | 8.770  | 7.01                       | 11.400 |



|       |       |        |       |       |       |       |       |       |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 3 /8  | 9.52  | 0.549  | 0.447 | 0.405 | 0.341 | 0.268 | 0.193 | 0.165 |
| 1/2   | 12.7  | 0.768  | 0.654 | 0.542 | 0.451 | 0.350 | 0.264 | 0.213 |
| 3/4   | 19.05 | 1.285  | 1.068 | 0.864 | 0.710 | 0.544 | 0.407 | 0.320 |
| 1     | 25.4  | 1.801  | 1.482 | 1.187 | 0.969 | 0.738 | 0.549 | 0.432 |
| 1 1/4 | 31.75 | 2.318  | 1.895 | 1.510 | 1.228 | 0.932 | 0.692 | 0.543 |
| 1 1/2 | 38.1  | 2.834  | 2.309 | 1.832 | 1.487 | 1.126 | 0.820 | 0.654 |
| 13/4  | 44.45 | 3.408  | 2.722 | 2.191 | 1.775 | 1.341 | 0.834 | 0.765 |
| 2     | 50.8  | 3.868  | 3.136 | 2.478 | 2.006 | 1.541 | 1.119 | 0.877 |
| 2 1/2 | 63.5  | 4.901  | 3.963 | 3.123 | 2.524 | 1.858 | -     | -     |
| 3     | 76.2  | 5.934  | 4.790 | 3.453 | 2.789 | 2.237 | -     | -     |
| 3 1/2 | 88.9  | 6.964  | 5.617 | 4.413 | 3.560 | 2.616 | -     | -     |
| 4     | 101.6 | 8.000  | 6.444 | 5.059 | 4.078 | 2.995 | -     | -     |
| 4 1/2 | 114.3 | 8.900  | 7.272 | 5.620 | 4.501 | 3.374 | -     | -     |
| 5     | 127.0 | 9.917  | 8.099 | 6.255 | 5.008 | 3.753 | -     | -     |
| 6     | 152.4 | 11.953 | 9.753 | 7.527 | 6.023 | 4.474 | -     | -     |

| SQUARE / RECTANGULAR TUBES |              |           |        |
|----------------------------|--------------|-----------|--------|
| SL. NO.                    | PIPE SECTION | THICKNESS | WEIGHT |

| SQUARE PIPE      | MM        | INCH          | MM   | SWG. | KG / MTR |
|------------------|-----------|---------------|------|------|----------|
| 1.               | 25x25     | 1x1           | 2.90 | 11   | 2.07     |
|                  |           |               | 3.20 | 10   | 2.29     |
| 2.               | 38x38     | 1.1/2 x 1.1/2 | 3.20 | 10   | 3.29     |
|                  |           |               | 4.00 | 8    | 3.95     |
| 3.               | 49.5x49.5 |               | 2.90 | 11   | 4.07     |
|                  |           |               | 3.66 | 9    | 4.93     |
|                  |           |               | 4.50 | 7    | 5.95     |
| 4.               | 72x72     | 3x3           | 3.20 | 10   | 6.70     |
|                  |           |               | 4.00 | 8    | 8.22     |
|                  |           |               | 4.80 | 6    | 9.66     |
| 5.               | 91.5x91.5 | 3.1/2 x 3.1/2 | 3.60 | 9    | 9.67     |
|                  |           |               | 4.50 | 7    | 11.88    |
|                  |           |               | 5.40 | 5    | 14.01    |
| 6.               | 132x132   | 5x5           | 4.80 | 6    | 23.83    |
|                  |           |               | 5.40 | 5    | 26.59    |
| RECTANGULAR PIPR |           |               |      |      |          |
| 7.               | 50x25     | 2x1           | 3.20 | 10   | 4.13     |
| 8.               | 66x33     | 2.1/2 x 1.1/4 | 2.90 | 11   | 5.19     |
|                  |           |               | 3.60 | 9    | 6.28     |
|                  |           |               | 4.50 | 7    | 7.58     |

|     |        |           |      |    |       |
|-----|--------|-----------|------|----|-------|
| 9.  | 96x48  | 4 x 2     | 3.20 | 10 | 8.54  |
|     |        |           | 4.00 | 8  | 10.47 |
|     |        |           | 4.80 | 6  | 12.31 |
| 10. | 122x61 | 5 x 2.1/2 | 3.60 | 9  | 12.32 |
|     |        |           | 4.50 | 7  | 14.14 |
|     |        |           | 5.40 | 5  | 17.85 |
| 11. | 172x97 | 7 x 3.1/2 | 4.80 | 6  | 23.83 |
|     |        |           | 5.40 | 5  | 26.59 |

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