

# TECHNICAL DATA SHEET (ALIGN)



## PRODUCT DESCRIPTION

Our Grating and frame are functional, attractive and economical solution to exterior and interior drainage problem provides a dynamic and contemporary appearance to complement today's architectural spaces.

### MATERIAL USED

Stainless Steel 316,304,430.

### KEY FEATURES

- Good Corrosion Resistance.
- Rapid Drainage, 80 ltr/min.

### DIMENSIONS

Sr. No.	Description	Color	Length (±0.5mm)	Width (±0.5mm)	Thickness (±0.05mm)	Frame Height (±0.5mm)
1	Frame	BLACK MATTE	200	200	1	4
	Grating		171	171	2	

Note - Also available in pipe cut with 42mm Dia.

## STAINLESS STEEL GRADE 316

### PHYSICAL PROPERTIES

- Density g/cm<sup>3</sup> : 7.90
- Hardness (HV5) : 200
- Safe Load Capacity (Kg) : 450

### CHEMICAL PROPERTIES

- Superiorly Corrosion resistant.
- Acid resistant.
- Recommended to use in harsh environments.
- Heat resistance.

### CHEMICAL COMPOSITION

Chemical Composition	CAS No.	% Weight
■ Carbon	7440-44-0	0.022
■ Chromium	7440-47-3	16.77
■ Iron	7439-89-6	67.91
■ Manganese	7439-96-5	1.761
■ Phosphorus	7723-14-0	0.039
■ Silicon	7440-21-3	0.359
■ Sulphur	7704-34-9	0.0055
■ Nickel	7440-02-0	10.24
■ Molybdenum	7439-98-7	2.074
■ Aluminium	7429-90-5	0.013
■ Cobalt	7440-48-4	0.21
■ copper	7440-50-8	0.403
■ Niobium	7440-03-1	0.019
■ Titanium	7440-32-6	0.0060
■ Vanadium	7440-62-2	0.069
■ Tungsten	7440-33-7	0.014
■ Tin	7440-31-5	0.012
■ Arsenic	7440-38-2	0.0075
■ Nitrogen	7727-37-9	0.066

## STAINLESS STEEL GRADE 304

### PHYSICAL PROPERTIES

- Density g/cm<sup>3</sup> : 7.90
- Hardness (HV5) : 220
- Safe Load Capacity (Kg) : 450

### CHEMICAL PROPERTIES

- Standard Corrosion resistance
- Easy maintenance
- Not acid resistance

### CHEMICAL COMPOSITION

Chemical Composition	CAS No.	% Weight
■ Carbon	7440-44-0	0.065
■ Silicon	7440-21-3	0.330
■ Manganese	7439-96-5	1.030
■ Phosphorus	7723-14-0	0.041
■ Sulphur	7704-34-9	0.006
■ Chromium	7440-47-3	18.250
■ Molybdenum	7439-98-7	0.240
■ Nickel	7440-02-0	8.240
■ Aluminium	7429-90-5	0.0034
■ Cobalt	7440-48-4	0.220
■ Copper	7440-50-8	0.360
■ Niobium	7440-03-1	0.0079
■ Titanium	7440-32-6	0.004
■ Venadium	7440-62-2	0.006
■ Tungsten	7440-33-7	0.021
■ Tin	7440-31-5	0.008
■ Arsenic	7440-38-2	0.003
■ Boron	7440-42-8	0.0007
■ Nitrogen	7727-37-9	0.024
■ Iron	7439-89-6	71.140

## STAINLESS STEEL GRADE 430

### PHYSICAL PROPERTIES

- Density g/cm<sup>3</sup> : 7.90
- Hardness (HV5) : 175
- Safe Load Capacity (Kg) : 450

### CHEMICAL PROPERTIES

- Good Corrosion resistance
- Not acid resistance

### CHEMICAL COMPOSITION

Chemical Composition	CAS No.	% Weight
■ Carbon	7440-44-0	0.080
■ Chromium	7440-47-3	16.420
■ Iron	7439-89-6	81.990
■ Manganese	7439-96-5	0.680
■ Phosphorus	7723-14-0	0.027
■ Silicon	7440-21-3	0.290
■ Sulphur	7704-34-9	0.004
■ Nickel	7440-02-0	0.160
■ Molybdenum	7439-98-7	0.014
■ Aluminium	7429-90-5	0.080
■ Cobalt	7440-48-4	0.031
■ Copper	7440-50-8	0.097
■ Titanium	7440-32-6	0.0037
■ Tungsten	7440-33-7	0.004
■ Tin	7440-31-5	0.004
■ Nitrogen	7727-37-9	0.027
■ Arsenic	7440-38-2	0.003
■ Venadium	7440-62-2	0.081
■ Niobium	7440-03-1	0.004
■ Boron	7440-42-8	0.0003

### STORAGE RECOMEDATION

Store in a cool well ventilated place in original packing. Open packing while going to be used.

### NOTE

- Product is in compliance with substance of Very High Concern (SVHC) i.e.  $\leq 0.1\%$  w/w as per the candidate list promulgated by the European Chemicals Agency (ECHA) which are defined in Article 57 of REACH Regulation (EC1907/2006) checked by Tuv-Nord Group.