
IDENTIFYING STAINLESS STEEL

I OFFER MY PROFOUND GRATITUDE TO
THE GREAT PROFESSION OF
ARCHITECTURE AND ITS HEROES WHO
HAVE GIVEN US SOME OF THE HIGHEST
EXPRESSIONS OF MAN'S GENIUS, YET
HAVE REMAINED UNKNOWN,
UNDISCOVERED BY MAJORITY OF
PEOPLE.

YEAR 1943 AYN RAND
IN "THE FOUNTAIN HEAD"

ABOUT ME

- I am known as Ananthanarayanan.
- A graduate in Mechanical Engineering in year 1969 from Kerala University.
- After 2 years of plant training, started the work in the Stainless Steel fabrication shop at Atomic Energy, Mumbai.
- Joined Steel Authority of India in the year 1980 at their Stainless project at Salem.
- Was attached to the Product Development and Application Department.
- Took Voluntary retirement in the year 2002.
- Now enjoying retired life combined with Independent Technical Consulting in the area of Stainless Steel.

Easy Identification of SS grades

Identifying SS from Chrome Plated Steel



Identifying 304 & 316 grade SS



Identifying 304 & 316



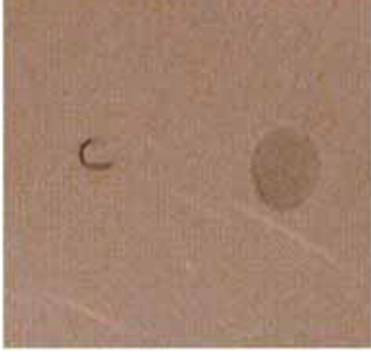
Identifying different SS



304 Grade SS



430 grade SS



4 % Nickel SS



2 % Nickel SS



1 % Nickel SS

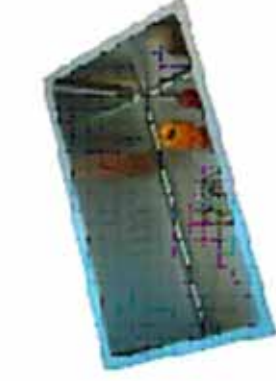
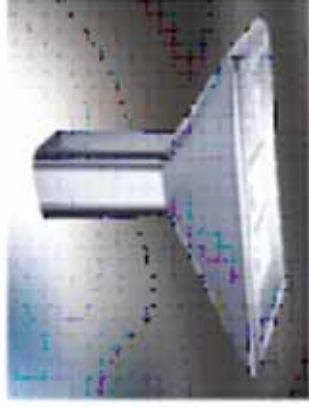


At present

Where SS has high presence in ABC sector?

SINK, FAUCET, HOOD, BURNER BODY

AVAILABLE AT CORNER SHOPS

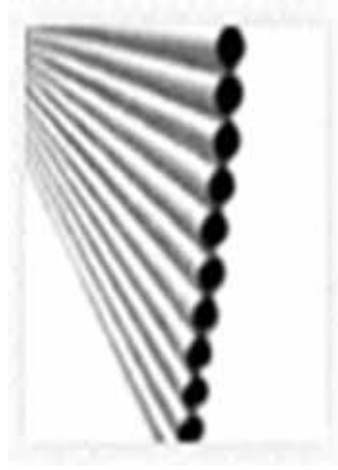


HARDWARE

AVAILABLE AT CORNER SHOPS



TUBES



AVAILABLE AT HARDWARE SHOPS

WHAT IS AVAILABLE FOR B2B BUT
NOT FOR B2C

BENCHES & RAILINGS



NOT EASILY AVAILABLE

SS COLOR COATED SHEETS



NOT EASILY AVAILABLE

SPECIAL FINISHED SHEETS

NOT EASILY AVAILABLE



WATER TANKS



**NOT AVAILABLE IN HARDWARE
SHOPS**

WHY THEY SHOULD BE EASILY AVAILABLE

**LIKE ALUMINIUM SHEET, EXTRUSIONS,
COLOR COATED ROOF SHEETS, WINDOW AND
DOOR SECTION.**

**THAT CAN INCREASE CONSUMPTION OF SS IN
ABC SECTOR**

INTERNATIONALLY WHAT IS THERE

- SS cladded extruded section
- Doors
- Grills
- Tiles
- PVD sheets
- Etched sheets
- Sandwich and honey comb panels
- Reinforcement rods
- Tubular collapsible gate

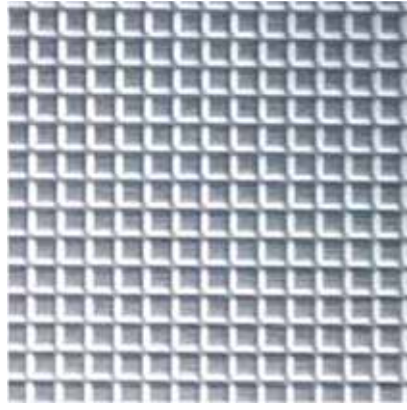
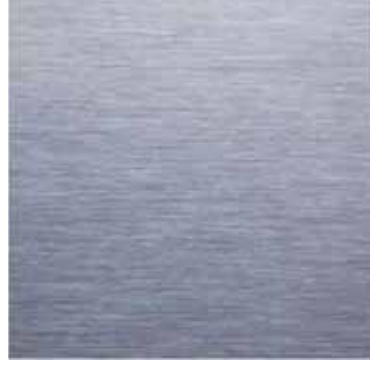
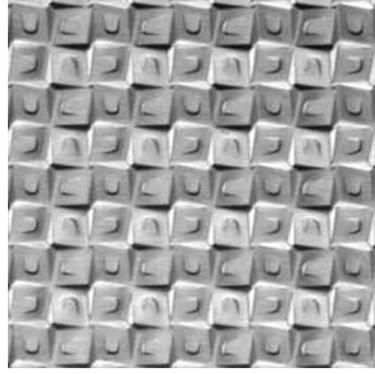


Installed now in Bangalore and Chennai

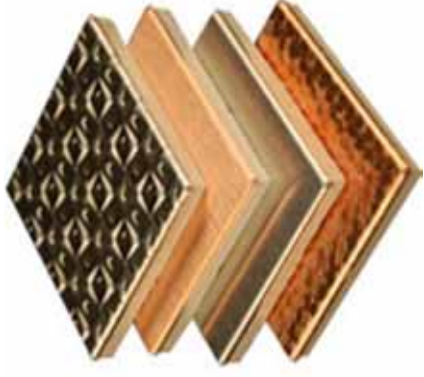


SS doors in China

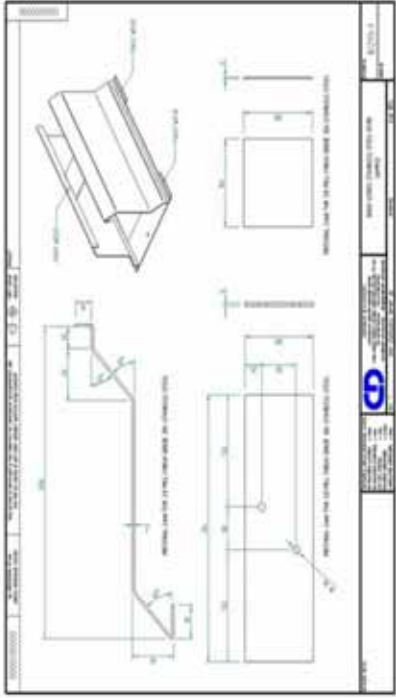




SS Tiles Rigidized Metal Corporation

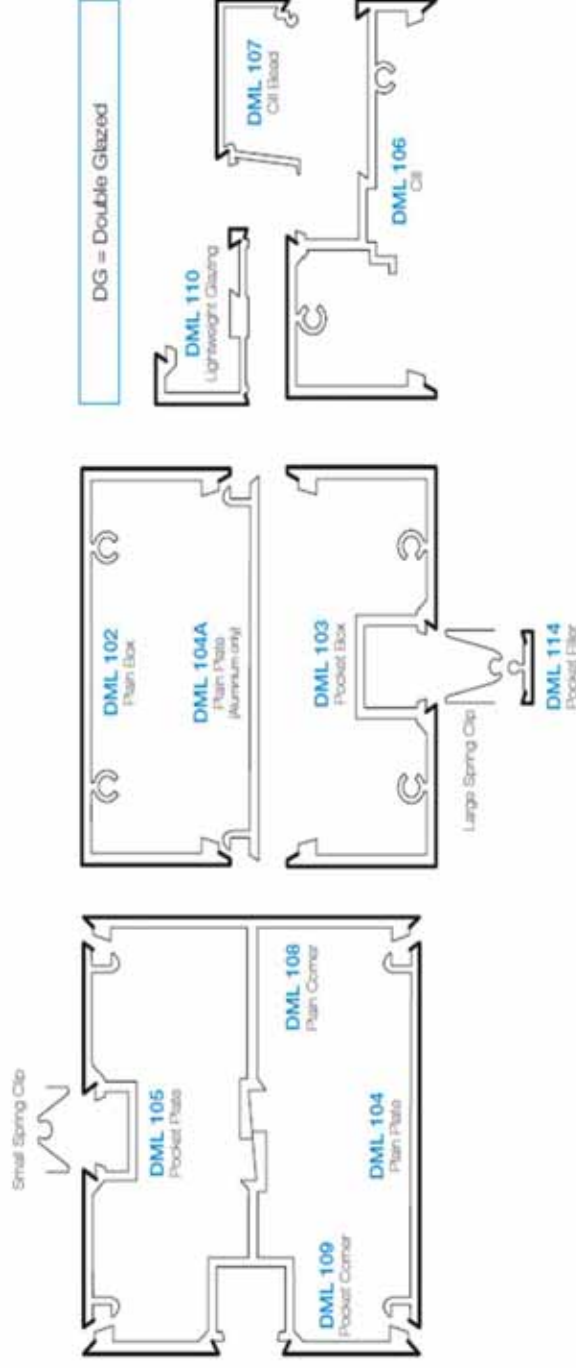


SS Tiles – Rigidized Metal Corporation



SS Skirting Italy

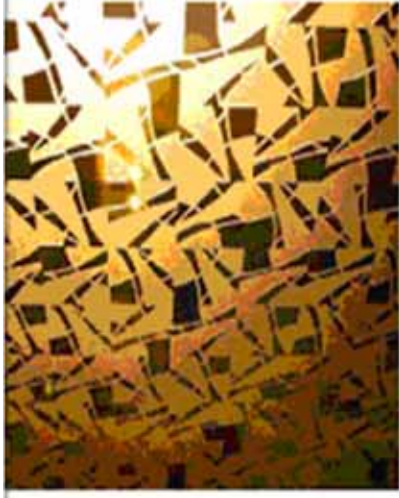
SS CLADDED ALUMINIUM SECTION - UK



Key advantages of Drawmet™

Apart from affording reduced manufacturing lead times and thereby facilitating quicker deliveries, the key advantage derived by utilising Drawmet™ instead of a conventional aluminium only system, is the aesthetically superior appearance achieved by the alternative metal finishes.

SS ETCHED SHEETS-CHINA



Titanium Coated SS Sheets - CHINA

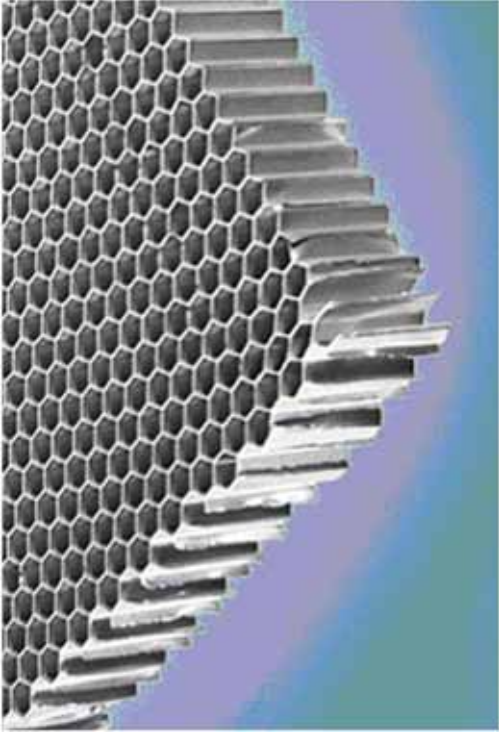


Aesthetics

Higher Surface hardness

Better Corrosion resistance

SS HoneyComb - China



Stainless Steel Reinforcement bar - UK



What needs to be done

- Take clue from Aluminium industry development
 - ✓ Al in cookware
 - ✓ Al in Electric cable
 - ✓ Al for extrusions
 - ✓ Al for sandwich panels
 - ✓ Al in bus bodies, train coaches, wagons

Quality fabrication

We can look at it in 2 ways

- Aesthetic and pleasing to the eye
 - where what counts is
 - ✓ dimensional proportions
 - ✓ merging with adjacent structure
 - ✓ selection of surface finishes
 - ✓ natural light reflections
 - ✓ blending with nature

Correct material usage & fabrication technique

What counts in this is

- **No over selection of material**
- **Surface protection during installation**
- **Sharp edges and burr removal**
- **No chance of contact accidents**
- **Surface cleanliness even in dark areas**
- **Contact material selection based on galvanic chart**
- **Easy to fix, replace, clean and maintain**

- SS has the best of properties for architectural building and construction components
- The only property which it lacks is transparency as in plastics
- Let us think ways and means of higher utilization of SS in ABC
- Join hands with SS producers, fabricators, designers and dealers

Thank You