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

1% Nickel SS

2% 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
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
**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.
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