

Advantage of Products

A strong, durable material made of iron and carbon, and often other metals, to achieve different properties. Steel is often used as a **Structural material in construction**.

Popularity of Steel derives from its:

- ✦ Strength and Versatility
- ✦ High Aesthetic Potential
- ✦ Ability to work well with other materials
- ✦ Excellent environmental performance
- ✦ Offering high recyclability and reuse potential
- ✦ Ability to be prefabricated offsite and constructed quickly and accurately onsite
- ✦ Excellent durability and performance in use
- ✦ Cost less than 50% than conventional buildings due to
 - Faster to assemble
 - More accurately designed
 - Highly energy efficient
 - Increased Safety
 - More flexible

ADVANTAGE OF COLOR COATED SHEET OVER ASBESTOS SHEET

| Sl. No. | ASBESTOS SHEET | COLOR COATED SHEET |
|---------|---------------------------------------|--|
| 1. | Gets cracked. | No cracking. |
| 2. | Heavy material 13-15kg/m ² | Light material 5kg/m ² . |
| 3. | Lower strength in wet conditions | No change in strength in wet conditions. |
| 4. | Maximum length available 3 meters. | Any transportable length is available (upto 12 meter) means less over laps/Leakage |
| 5. | Limited strength | High strength - M.P.A 240-550 |
| 6. | Maximum purlin spacing in 1.4 meters. | Purlin spacing can be up to 2 meters or more depending upon thickness and shape of trapezoidal sheets. |
| 7. | Requires more purlins to support | Requires less purlins to support hence saving in steel. |



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| 8. | Blackened AC sheets reflects less sun heat absorbs more heat. | Lighter shades reflects 60-70% sun heat absorbing hardly 30-40% this creates better conditions inside. |
| 9. | Looks drab & dull, develops blackness in couple of monsoons due to moss formation | Looks beautiful as monsoons washes the surface & clean it. |
| 10. | Leakage problem | No leakage problems, multicolor sheets are sound material. Side laps well designed. Engineered method for erection eliminates leakage. |
| 11. | Low impact strength-brittle | High impact strength, colorful, beauty is combined with durability. |
| 12. | Asbestos material has health hazard | No health hazard. |
| 13. | Life risk in maintenance | No risk in maintenance |
| 14. | No resale value | Very good resale value |
| 15. | No aesthetic look | Gives aesthetically beautiful look. |
| 16. | High breakage/ damage in transport & handling. | No breakage/damage in transport and handling. |
| 17. | Asbestos sheets are beyond repair | Repair not required. |
| 18. | Initially low cost but life cycle cost in 10 years more then 3 times. | Initially little high cost but life cycle cost in 10 years is almost nil. |

ADVANTAGE OF COLOR COATED SHEET OVER CGI SHEETS

| Sl. No. | GI ROUND CORRUGATED | COLOR COATED SHEETS |
|---------|---|---|
| 1. | Round Corrugated with only 16-18mm depth - low strength | Trapezoidal Corrugated Shape with 32-41mm depth - High Strength |
| 2. | Tensile Strength 240 MPA | High Tensile Steel Minimum 550 MPA for better |



| | | Spanning |
|----|---|--|
| 3. | <p>Leakage Problem</p> <ul style="list-style-type: none">• Only one profile of round corrugated with low depth of 18mm.• Small round area 90mm for water shedding leads to leakage from side laps.• Small length of 8', 10', 12' available leads to lots of leakage from too many joint and wastage due to joint. | <p>No Leakage</p> <ul style="list-style-type: none">• Many Trapezoidal Shapes available, Trapezoidal Shape for low slop roof to avoid any leakage.• Wide pan of 186-225mm allow proper water shedding.• Any length from 3' to 40' and even up to 200' available to avoid any end lap and save wastage and leakage. |
| 4. | Looks dull with lots of hooks. | Look authentically pleasing with hardly any fastners Visible |
| 5. | Life of 5-6 Years | Life of Four Times then Galvanized |