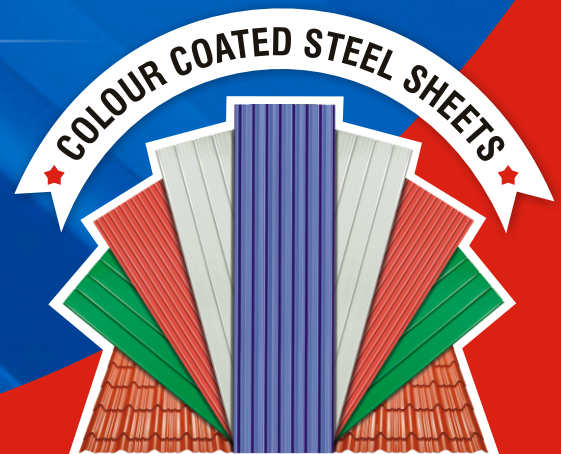




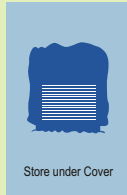
Material Storage and Installation Guidelines



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Material Storage

✓ Do's



- ✓ Store indoor and away from access to open areas. If left in the open, protect with waterproof covers
- ✓ If material is not required for immediate use, stack it neatly and clear off the ground. Maintain a clear gap of 30 cm between sheet package and ground



- ✓ Store off the ground and with a minimum 5 degrees slope (1:10) so that if rain penetrates the covering, water will drain away
- ✓ Inspect the storage site regularly to ensure that moisture has not penetrated the stock

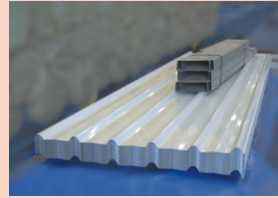


- ✓ If stacked or bundled product gets wet, separate it without delay, wipe it with a clean cloth and allow it to dry thoroughly
- ✓ The sheet should be kept gently to ensure that it is not damaged



- ✓ Use a spreader bar for long sheets. For small to medium size projects, without mechanical handling facilities unload and pass sheets by hand to the roof one at a time
- ✓ Use Personal Protective Equipment such as clean hand gloves and closed shoes while lifting

✗ Don'ts



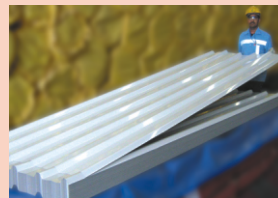
- ✗ Don't keep heavy material on stacked sheets
- ✗ Don't place sheets vertically without proper support



- ✗ Don't keep sheets in direct contact with soil
- ✗ Don't let the surface get wet



- ✗ Don't use metal chain for lifting sheets
- ✗ Don't store material on walking path. Sheet moving path should be clear and movement of people should be restricted



- ✗ Don't slide sheet over rough surface or over each other. Always carry tools, don't drag them



Do's for Installation



- ✓ Use recommended Personal Protective Equipment (helmet, goggles, shoes, gloves and high visibility vests) while handling and installing the sheets



- ✓ Always wear smooth and soft-soled shoes



- ✓ Cut materials on the ground and not on other material where hot particles can fall and cause damage to the finishing of the sheet

- ✓ Remove all metal scrap, drill particles, pop rivet mandrels and excess fasteners from the roof to avoid rust stains



- ✓ Use a power saw with a metal-cutting blade to cut thin sheets. This results in fewer hot metal particles and leaves less resultant burr than a carborundum disc



- ✓ Structures like tubes, HSS, angles and channels (except Zinc coated supporting structures) should be painted before fixing the sheets

- ✓ Use neutral cure silicone rubber sealants

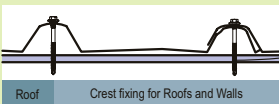


- ✓ Clean the roof with clean water or mild detergent by using soft cloth, mop or soft nylon bristle to avoid swarf stains and rusts

- ✓ Use chalk line and fix screw directly on the supporting members



- ✓ While walking on the roof, keep your weight evenly distributed to avoid concentrating your weight on either heels or toes

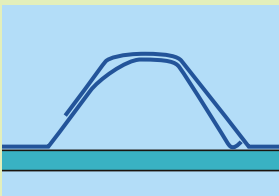


- ✓ **For Roofing:** Always place roof screws through the crest



- ✓ **For Walling:** Always fix screws either on valley or through the crest by stitching

- ✓ Use recommended screws/fasteners of Class 3 with EPDM rubber sealing washers



- ✓ The groove portion should be on the inner side. The air gap on the left ensures that water does not travel upward

Removal of Guard Film

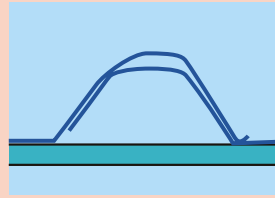


- ✓ Remove the guard film after installation. If not removed it could have adverse effect on the colour and will be broken into pieces due to weathering effects

✘ Don'ts for Installation



- ✘ Don't keep colour coated sheets in contact with cement, dirt and chemicals like paint and thinner



- ✘ The groove portion should not be on the outer side. Improper contact makes the roof vulnerable to water leakages



- ✘ Don't install the roof sheets during rains, sheets get wet and slippery



- ✘ Don't leave metal articles on the roof
- ✘ Don't throw bird feed on the sheet. Bird dropping can damage the colour of the sheet

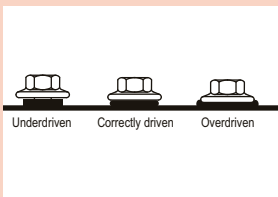


- ✘ Don't use stainless steel screws, J hooks and carbon washers as they may damage the sheet



- ✘ Don't use acetic acid based sealants which liberate aggressive by-products during curing which is detrimental to steel sheets

- ✘ Never use abrasive or solvent type cleaners and wire brushes, steel wool, sponge, scourers to clean the roof sheet as it softens the paint film

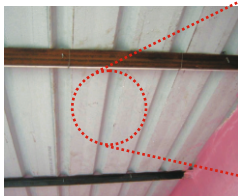


- ✘ Don't overdrive or under drive the screw as it can lead to water leakage or washer damage



- ✘ Don't walk on a single rib, end laps gutter and skylight sheets

Disclaimer on Condensation:



Condensation is the natural formation of water droplets on the bottom side of any installed metal roofing sheet. It may occur when there is a difference in temperature between the air in the building and the sheet itself, causing the water vapour (moisture) in the air to condense on the inside of the sheet. It is a natural phenomenon and hence no claims will be entertained in this regard.

The risk of condensation may be minimised by providing proper ventilation arrangement in the roofs and by using suitable insulation.



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Maintenance Guidelines

Maintenance guidelines for DURASHINE® sheets & components:

Roof/Wall (sheets & components) must be cleaned regularly. Twigs, debris, dust, plant leaves and fungal (all external matters) should be removed and then roof should be cleaned with water. Ensure no scratch/damage occurs to the sheets during removal.

Post Installation:

- ✓ Check for screws, rivets, nails, sheet metal off-cuts, tin cans, etc leftover on top of sheets. Large/sharp or heavy items should be removed by hand using gloves.
- ✓ Check for sand or dirt build up, it should be washed off with clean water and a soft nylon brush.
- ✓ Clean from top to bottom and give a final rinse with water when completed. Ensure no water is trapped anywhere.

Regular Maintenance:

- ✓ Sweep debris into a pile using a stiff, soft bristled brush (shovels or hard tools should not be used)
- ✓ The whole roof and gutters should then be washed down with a hose, including high ends of gutters possibly protected by overhangs, rain heads, water spouts and overflow locations.
- ✓ Ensure no water is trapped/ponding anywhere.

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