



شركة حديد  
الصناعية  
**التقنية العليا**  
**HITECH**  
STEEL INDUSTRIES



# CHAIN LINK FENCE

## TECHNICAL DATASHEET

**HCIS CLASS-2**

**IN ACCORDANCE TO HCIS /SAIS CLASS-2**



## Specification Sheet for Chain Link Fence System HCIS Category - 2

| Wire Specification  |                      |  |
|---------------------|----------------------|--|
| Fence Member        | Dimension            | Description  |
| Chain Link Fabric   |                      | Fabric shall be Vinyl Coated chain link with 50mm diamond mesh, with top selvedged twisted and bottom selvedge knuckled shall be woven continuously without splices. |
|                     | Wire Diameter        | 9 Gauge  |
|                     | Vinyl Coating        | PVC Fusion Bonded fabric as per ASTM F668, Class-2b.   |
|                     | Zinc Coating         | Uniformly Galvanized in accordance with ASTM A641, Class-1   |
|                     | Coating              | Coated with 0.20mm (8mill) of PVC applied by Fusion Bonded method.   |
|                     | Colour               | Dark Green RAL 6005  |
|                     | Mesh Size            | 50mm x 50mm Diamond Mesh   |
|                     | Height               | 2700mm (+/-12mm)   |
|                     | Breaking Strength    | The minimum breaking strength for the Fence Fabric shall be 9650 N (2170 lbs)  |
|                     | Top Selvedge         | Twisted  |
|                     | Bottom Selvedge      | Knuckled   |
| Tension Wire        | Wire Diameter        | 7 gage (4.50mm)  |
|                     | Vinyl Coating        | PVC Fusion Bonded fabric as per ASTM F668, Class-2b.   |
|                     | Zinc Coating         | Uniformly Galvanized in accordance with ASTM A641, Class-1   |
|                     | Coating              | Coated with 0.20mm (8mill) of PVC applied by Fusion Bonded method.   |
|                     | Colour               | Dark Green RAL 6005  |
|                     | 2.0 Rows             | No of Rows   |
| Tie Wire            | Wire Diameter        | 9 gage (3.76mm)  |
|                     | Vinyl Coating        | PVC Fusion Bonded fabric as per ASTM F668, Class-2b.   |
|                     | Zinc Coating         | Uniformly Galvanized in accordance with ASTM A641, Class-1   |
|                     | Coating              | Coated with 0.20mm (8mill) of PVC applied by Fusion Bonded method.   |
|                     | Colour               | Dark Green RAL 6005  |
| Barb Wire<br>6 Rows | No, of Strand        | 2 Strands  |
|                     | Strand Wire Diameter | 12.5 gage (2.50mm)   |
|                     | Galvanized           | As per ASTM A121   |
|                     | Barb Wire            | 14 Gage (2.00mm)   |
|                     | Point Type           | 4 Pointed.   |

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|  |                       |                                |
|--|-----------------------|--------------------------------|
|  | Spacing               | 125mm                          |
|  | No. of Rows           | 6 Rows                         |
| <b>Razor Wire Concertina<br/>3 Rows</b>  | Diameter              | SS loops                       |
|  | No of Loops           | 600mm (+/-50mm) before stretch |
|  | Cluster Per Loop      | 24 Nos (+/-1)                  |
|  | Barb Length           | Minimum 30mm                   |
|  | Razor Tape Material   | SS430                          |
|  | Wire Diameter         | 2.50mm                         |
|  | Tensile Strength      | Min. 965 kN/m <sup>2</sup>     |
|  | Wrap around Core Wire | Min. 230 Degree                |
| <p>Wire Dimensions and Tolerances in accordance with ASTM A641<br/>All Wires Except barb Wire are Galvanised in accordance with ASTM A641 Class 1<br/>Barb Wire are Galvanised in accordance with ASTM A641 Class 3<br/>Chain Link Wire and Line Wire are Fusion Bonded in accordance with ASTM F 668 Class 2 b in Green RAL 6005.</p> |                       |                                |

| Metal Specification   |  |  |
|-----------------------|--|--|
| Fence Member          | Dimension  | Description                                      |
| <b>Straining Post</b> | 114.30mm   | Outer Diameter of Pipe                           |
|                       | 8.56mm SCH 80  | Thickness of Pipe (Tolerances as per ASTM F1083) |
|                       | 3.70 Meter   | 2.70 Mtr Above Ground Level+ 1.0 Mtr Buried      |
|                       | 90 Meter   | Place at every 90 Meters Interval C/C            |
|                       | All posts to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>Corner Post</b>    | 114.30mm   | Outer Diameter of Pipe                           |
|                       | 8.56mm SCH 80  | Thickness of Pipe (Tolerances as per ASTM F1083) |
|                       | 3.70 Meter   | 2.70 Mtr Above Ground Level+ 1.0 Mtr Buried      |
|                       | All posts to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>End Post</b>       | 114.30mm   | Outer Diameter of Pipe                           |
|                       | 8.56mm SCH 80  | Thickness of Pipe (Tolerances as per ASTM F1083) |
|                       | 3.70 Meter   | 2.70 Mtr Above Ground Level+ 1.0 Mtr Buried      |
|                       | All posts to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |

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## Specification Sheet for Chain Link Fence System HCIS Category - 2

|   |  |  |
|---|--|--|
| <b>Intermediate Post</b>  | 88.90mm  | Outer Diameter of Pipe                           |
|   | 7.62mm SCH 80  | Thickness of Pipe (Tolerances as per ASTM F1083) |
|   | 3.60 Meter   | 2.70 Mtr Above Ground Level + 0.90 Mtr Buried    |
|   | 3.0 Meter  | Place at every 3.0 Meters Interval C/C           |
|   | All posts to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>Horizontal Brace</b>   | 60.30mm  | Outer Diameter of Pipe                           |
|   | 3.91mm SCH 40  | Thickness of Pipe (Tolerances as per ASTM A53)   |
|   | Approx. 2.90Meter  | Length (Suitable to Post C/C-3.0 Meter)          |
|   | All pipes to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>Top Rail</b>   | 60.30mm  | Outer Diameter of Pipe                           |
|   | 3.91mm SCH 40  | Thickness of Pipe (Tolerances as per ASTM A53)   |
|   | 6.0 Meter  | Length   |
|   | All pipes to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>Brace Strut</b>  | 60.30mm  | Outer Diameter of Pipe                           |
|   | 3.91mm SCH 40  | Thickness of Pipe (Tolerances as per ASTM A53)   |
|   | Approx. 3.00 Meter   | Length (Suitable to Post Inclined to 45 Degree)  |
|   | 3.0 Meter  | Placed at every 3 Meter                          |
|   | All pipes to be internally and externally galvanized in accordance to ASTM F1043 and then Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005. |  |
| <b>Stretcher Bar</b>  | 6mm x 19mm   | Flat Bar   |
|   | 2.70 Meter   | Length   |
| <b>Truss Router Diameter</b>  | 10.0mm   | Router Diameter Diameter                         |
|   |  | Suitable for Post C/C- 3.0 Meter                 |
| <p>All Post are Schedule 80 Pipe in accordance with ASTM F1083 having Tensile and Yield Strength of Min. 48,000 (330 Mpa) and Min. 30,000 psi (205 Mpa) respectively.<br/>Rail and Braces are Schedule 40 Pipes in Accordance with ASTM A53 SCH 40 Grade A having Tensile and Yield Strength of Min. 48,000 (330 Mpa) and Min. 30,000 psi (205 Mpa) respectively.<br/><b>All posts/ Pipes are galvanized internally and externally in accordance to ASTM F1043 and Thermoplastic coated externally to a Minimum of 350 microns in Green RAL 6005.</b></p> |  |  |

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## Specification Sheet for Chain Link Fence System HCIS Category - 2

### Accessories Specification

|                                  |          |                                      |
|----------------------------------|----------|--------------------------------------|
| Brace Bands                      | 114.30mm | Made from 25mm x 3mm Flats           |
| Brace Bands                      | 88.90mm  | Made from 25mm x 3mm Flats           |
| Tension Band                     | 114.30mm | Made from 25mm x 3mm Flats           |
| Short Winder                     |          | Standard                             |
| Rail End Cap                     | 60.30mm  | Used to fix Horizontal brace.        |
| Turn Buckle                      |          | Standard                             |
| Hog Ring                         | 2.0mm    |                                      |
| Eye bolt                         | 100mm    | SS316                                |
| Heavy Duty Extension Arm         | -        | Made from 50 x 5mm thick Equal Angle |
| Light Duty Extension Arm         | -        | Made from 2.0mm Pressed Steel        |
| Sleeve                           | 60.30mm  | To Connect Top Rail C/ C 6 Meter     |
| Expansion Sleeve (Spring Loaded) | 60.30mm  | To Connect Top Rail C/ C 30 Meter    |

All accessories shall comply to ASTM F 626 and Subsequently PVC Coated 10 - 15 Mills in Dark Green RAL 6005  
Tension Bar / Stretcher Bars shall be Hot dip galvanized in accordance with ASTM A123 and Subsequently PVC Coated 10 - 15 Mills  
in All Hardwares SS316.

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