

## Duferco Light Metal Frame Warranty

### Warranty for use of Duferco Steel Processing continuously hot dip galvanized steel in Light Steel Frame structures

*This warranty applies to DSP continuously hot dip galvanized sheet used within the building envelope of Light Steel Frame structures.*

**Warranty Application Reference number** \_\_\_\_\_

Duferco Steel Processing (Pty) Ltd (DSP), warrants that all continuously hot dip galvanized steel (DSP product) of Z 200 and upwards, used for forming Light Steel Frame (LSF) Structures, enclosed within a durable **building envelope**, will have a functional life span of 50 years, which period commences from the date of dispatch of the material from Duferco's premises in Saldanha Bay, Western Cape, South Africa.

The DSP product that is under warranty, will consist of all steel frame sections manufactured from DSP continuously hot dip galvanized coil, that is covered and completely enclosed by either roofing or cladding materials within the wall cavities and/or roof space (**roof space** = the area between the building ceiling and roof cover). This totally enclosed area within the walls and roof of the building will be defined as the **Building Envelope**.

#### **A. The warranty is subject to the following specific terms and conditions:**

1. Subject to DSP confirming that the "Application for Warranty for Light Steel Frame Buildings" was successful
2. DSP delivers the material in coil form to the profiler's premises
3. The DSP product is not damaged during metal forming or subsequent transport to site or during installation at a site
4. The zinc coating on the continuously galvanized DSP sheeting has not been mechanically damaged through transport and poor handling or chemically damaged through exposure to chemical atmospheres or liquids which are known to be harmful to zinc coatings and that storage and handling were carried out according to the requirements of **APPENDIX B**.
5. That the installation of the DSP product, within the Building Envelope, is more than 800 meters from the sea or 1000 meters from any industrial area

6. The metal frame sections within the structure of the building envelope were all manufactured from DSP product.
7. An inspection must be conducted by the builder at the end of the construction of the frame and before the placing of the cladding. Details of any event that could lead to the premature failure of the DSP product must be recorded by the builder and reported to DSP within 3 days of the event
8. The manufacturer, supplier & builder of the LSF structure are members of the SOUTHERN AFRICAN LIGHT STEEL FRAME BUILDING ASSOCIATION ( [www.sasfa.co.za](http://www.sasfa.co.za) ) or a recognized international Light Steel Frame Building association. Proof of member ship to be supplied on application to Duferco
9. The light metal structure and its installation complies with the requirements and guidelines of SANS 517:2013 Edition1.2 as amended
10. Each structure is signed off by a structural engineer who is a registered Professional Engineer with the Engineering Council of SA or Chartered Engineer of the UK or a registered engineer in the country where the light steel frame building is constructed

**B. EXCLUSIONS: Damage to the DSP product partly or wholly due to the following, is NOT covered by this warranty.**

1. Extraordinary meteorological conditions e.g. tornadoes, hurricanes
2. An act of God e.g. earthquake, fire, floods, hailstorms
3. Exposure of DSP product in light steel frame form to a chemically aggressive environment including corrosive industrial pollutants, corrosive fumes or deleterious gases which attack the zinc coating and subsequently the underlying steel
4. Damage due to war, riots and terrorist actions
5. DSP products used in light steel frame form which were in contact with:
  - a. Chemicals aggressive to zinc or
  - b. Structural elements manufactured from copper or
  - c. Liquids flowing from copper pipes

6. Surface appearance differences between coils
7. Damage arising from DSP product stored outdoors or in such a manner that moisture accumulated between slits/profiles resulting in White Rust or Wet Storage Staining (**see APPENDIX B**)
8. Damage originating during metal forming processes, transportation to site and site installation as a result of mechanical impact or contact with chemicals corrosive to zinc
9. Surface contamination of the zinc coating by residual iron fillings & iron particles generated during cutting, milling, grinding or boring operations or any assembling operations realized at a building site
10. Damage arising from incorrect or unacceptable methods of installation and unsuitable placement of products in buildings as defined in SANS 517:2013 Edition 1.2 as amended
11. Damage to DSP product used as light steel framing that had been permanently placed in contact with soil, buried in soil or covered with moisture retaining substances
12. Metal frames made from DSP product that protrude from the Building Envelope and which are exposed directly or indirectly to the surrounding atmospheric environment
13. It is specifically recorded that Duferco Steel Processing ( DSP ) is not obliged to honour this warranty in the event of non-compliance with good installation practice as guided by SANS 517:2013 Edition 1.2 as amended and the code of practice of the Southern African Light Metal Frame Building Association ( [www.sasfa.co.za](http://www.sasfa.co.za) )

### **C. Other terms and conditions**

- a) Duferco Steel Processing will not be liable for any indirect costs (removal & re-installation) or damages arising from the use of defective DSP product save that Duferco Steel Processing's liability in terms of this warranty, shall be limited to the replacement of defective material only, at the initial delivery address and DSP shall not be liable for :
  - I. Any consequential costs, damage to property or any injury to persons arising from the use of the DSP product
  - II. Installation or labour costs

- b) Discharge of any liability by DSP of its obligations specified in this warranty, shall be done on a full and final basis of any claims against the company and the receiver of such settlement shall not be entitled to any further claim against DSP with respect to the materials and application in a specific warranty claim
- c) DSP's liability due to premature corrosion of its product in light steel frames shall be limited to either replacement of the same coating designation material or the reimbursement of the cost of purchasing replacement product from DSP
- d) After expiration of the Warranty period, no further claims will be accepted
- e) DSP's liability shall be limited exclusively to a pro-rata share (P) based on the remaining warranty period from date of claim: where X = warranty period, A = years in service till claim and  $P = [(X-A) / X]$

**4.0 Signature and acknowledgement**

A signed copy of this warranty document must be returned to Duferco Steel Processing within 30 (thirty) days of receipt of this document, failing which your Warranty Application will be considered as rejected.

**Signed**.....

**Print Name**.....

**Designation**.....**Company**.....

**Physical Address**.....

.....

...

**Tel**.....

**Email**.....

**Postal address**.....

**The attached form APPENDIX A must be completed and returned to:**

**Duferco Steel Processing (Pty) Ltd  
1 Potassium Street  
Saldanha Bay  
7395**

**OR email it to:**

**[Sales@Duferco.co.za](mailto:Sales@Duferco.co.za)**

# APPENDIX A

## APPLICATION FORM FOR WARRANTY

- 1. Applicant.....
- 2. Project Description.....
- 3. Street Address.....
- 4. Distance from sea.....
- 5. Distance from industrial area.....
- 6. Name of Builder / Main Contractor.....
- 7. Floor Area.....
- 8. Coating designation.....
- 9. Steel service centre name.....
- 10. Slitter of steel coil.....
- 11. Profiler of Steel Frames.....
- 12. Erector of the light steel framework.....
- 13. Exterior cladding.....
- 14. Insulation material.....
- 15. Ceiling Type.....
- 16. Roofing Material.....
- 17. Factors that could influence corrosion performance on steel sections  
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APPENDIX A continued....

**On behalf of applicant**

Completed by name.....

Designation.....

Date.....

Company.....

Contact telephone number.....

**On Behalf of Duferco**

Name.....

Designation.....

Date.....

## APPENDIX B – Storage & Handling of hot dip galvanized sheet

- A. **It is important to properly store and transport galvanized steel** so as not to disrupt the development of the zinc patina. Zinc, like all metals, begins to corrode naturally when exposed to the atmosphere. However, zinc corrosion products form a tenacious, abrasion-resistant patina which helps to provide hot-dip galvanizing with its long service life. The formation of this patina depends on the galvanized coating being exposed to freely circulating air. Stacking galvanized articles closely together, or nesting, for extended periods of time, thereby limiting access to freely circulating air, can lead to the formation of a white powdery product know as wet storage stain
- B. **White rust or wet storage stain is essentially a staining or buildup of zinc hydroxide** on the surface of the galvanized steel. Superficial mild staining is no reason for concern as it will weather away when the parts are put in service. If two surfaces are in close contact with one another and not allowed to dry, excessive buildup of this voluminous and porous corrosion product will remain and as it accumulates in significant quantities, can cause excessive corrosion of the coating.
- C. **Minimizing White Rust or Wet Storage Stain:**
- a. Provide adequate ventilation between stacked pieces and avoid nested stacking
  - b. Elevate and separate articles stacked outdoors with strip spacers and during shipping if there is the likelihood of condensation
  - c. Incline parts to allow for maximum drainage
  - d. Prevent uncovered material from being left at in-transit loading points where it may be exposed to rain, mist or condensation
  - e. Make use of a suitable Vapour Corrosion Inhibitor (VCI)
  - f. Store galvanized material under cover in dry, well-ventilated conditions, away from doorways open to the environment
  - g. Maintain a low humidity environment at storage sites

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