

Eclipse 25 Warranty

CROSSARM

Atropos Eclipse 25 Warranty

Warranty Overview

Atropos Composites ("Atropos") warrants that composite crossarms equipped with the ATROPOS ECLIPSE™ UV Protection System ("Eclipse" or the "Eclipse System") will not exhibit fiber blooming attributable to UV degradation of the Eclipse System for a period of twenty-five (25) years from the date of manufacture, subject to the terms, conditions, and exclusions set forth in this document (the "Warranty").

Definitions

Fiber Blooming: For purposes of this Warranty, "fiber blooming" means the exposure of glass fibers following Atropos' inspection procedure.

Fiber blooming does not include, and is expressly distinguished from, surface color fade, chalking, gloss loss, or minor changes in surface texture and does not affect the mechanical performance of the crossarm, is expected over the service life of the product and is not itself a warrantable condition.

Fiber Bloom Inspection Procedure

1. Surface Preparation

Clean the inspection area using a lint-free microfiber wipe saturated with refractive index fluid until all loose dirt, debris, and surface contaminants are removed. Apply additional refractive index fluid as necessary to maintain a continuous thin film over the inspection area throughout the evaluation.

2. Initial Microscopic Inspection

Using a calibrated optical microscope or magnifier at **10× magnification**, examine the wetted surface for exposed or partially exposed reinforcing glass fibers. Record any observed fibers exceeding **1.0 mm** in exposed length.

3. Surface Abrasion

Apply fresh refractive index fluid to the inspection area. Using a standardized abrasive finger cot, abrade a **30 mm × 30 mm** area for **15 ± 1 seconds** using a circular motion while maintaining a normal force of **3 ± 0.5 lbf** (**13 ± 2 N**). The abrasion is intended only to remove resin that has been degraded by UV exposure and shall not intentionally remove sound laminate material.

4. Post-Abrasion Inspection

Reapply refractive index fluid and examine the abraded area at **10× magnification**. Count all exposed reinforcing glass fibers having an exposed length greater than **1.0 mm**.

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5. Abrasive Finger Cot Inspection

Examine the abrasive finger cot at **10× magnification** and count any glass fibers removed during the abrasion procedure that exceed **1.0 mm** in length.

Acceptance Criteria

A specimen shall be classified as exhibiting **fiber bloom** if **either** of the following conditions is met:

- Any 20 exposed reinforcing glass fibers greater than 1.0 mm in length are present within the 30 mm × 30 mm inspection area following the abrasion procedure; or
- Any 20 reinforcing glass fibers greater than 1.0 mm in length are recovered from the abrasive finger cot following the abrasion procedure.

Warranty Period and Coverage

Warranty Term	25 years from the date of manufacture
Covered Product	Composite crossarms manufactured with the ATROPOS ECLIPSE™ UV Protection System
Covered Failure Mode	Fiber blooming attributable to UV degradation
Remedy	Repair or replacement of the affected crossarm, at Atropos's election
Claim Requirement	• Required information: original job number, date of manufacture, location of installation, date of installation, photographs of the affected area, and a description of the observed condition. • Required material: the crossarm in question must be returned to the Atropos factory for evaluation
Transferability	Not transferable; original purchaser of record only

What is Covered

This Warranty is limited solely to fiber blooming attributable to UV degradation of the ATROPOS ECLIPSE™ UV Protection System occurring within 25 years from the date of manufacture. It does not constitute a warranty of the structural capacity, mechanical properties, dielectric performance, service life, or fitness for a particular purpose of the composite crossarm except as may be expressly provided under a separate written warranty issued by Atropos. Where a valid claim is established, Atropos will, at its election, repair or replace the affected crossarm.

What is NOT Covered

This Warranty does not cover damage, defect, or failure caused by, arising from, or related to:

- Installation practices not in accordance with Atropos's published installation guidance.
- Physical impact, including but not limited to damage from equipment, vehicles, falling limbs, or ballistic events.
- Chemical exposure beyond the conditions for which the product is designed and specified.
- Fire or exposure to open flame.
- Acts of nature, including but not limited to severe weather, flooding, and seismic events.
- Any modification of the crossarm by a party other than Atropos, except for field drilling and hardware installation performed by the purchaser in strict accordance with Atropos-provided instructions and using materials supplied by Atropos.
- Any cause of damage or degradation other than UV degradation of the Eclipse protection system
- Improper storage, transportation, or handling prior to installation, including storage conditions inconsistent with Atropos published recommendations or damage occurring during shipping or warehousing.
- Repair, refinishing, painting, coating, sanding, grinding, machining, or other surface treatment performed by any party other than Atropos.
- Surface abrasion, scraping, gouging, or wear resulting from installation, handling, hardware movement, maintenance activities, or other mechanical contact.
- Improper hardware installation, including over-tightening of fasteners, incompatible hardware, improper clamp loading, or installation practices that exceed Atropos published specifications.
- Use of the crossarm outside its published design ratings, intended application, or specified environmental conditions.
- Surface discoloration or contamination caused by pollution, industrial fallout, salt deposits, agricultural chemicals, bird droppings, biological growth, tree sap, or similar contaminants.
- Cleaning or maintenance methods that damage the surface.
- Electrical damage including flashover, arcing, corona, tracking, lightning, or switching surges unrelated to UV degradation.
- Removal or alteration of identification markings preventing product identification.
- Repair or destruction before Atropos inspection.
- Fiber blooming caused by anything other than degradation of the Eclipse UV Protection System.

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How to Make a Claim

To submit a warranty claim, the purchaser shall notify Atropos in writing within sixty (60) days after discovery of the claimed defect with the following information. Failure to provide timely notice may result in denial of the warranty claim to the extent permitted by applicable law:

- Original job number
- Date of manufacture (from the crossarm's identification marking and end cap)
- Location of installation
- Date of installation
- Photographs of the affected area and a description of the observed condition

The crossarm in question must be returned to the Atropos factory for evaluation before a final warranty determination is made. Atropos will provide return instructions upon receipt of the claim. Claims submitted without the original job number or without the physical part being made available for factory evaluation may not be processed.

Atropos will evaluate the returned part and, where the claim is confirmed as warranted, arrange repair or replacement in accordance with this Warranty.

Warranty Contact	sales@atropos.build
Phone	314-451-3140, Mon-Fri 8:00am-5:00pm CDT
Headquarters	12208 Missouri Bottom Rd, St. Louis, Missouri, 63042

How to Make a Claim

Transferability

This Warranty is extended solely to the original purchaser of record and is not transferable to any subsequent owner, utility, or other party. A change in ownership of the covered crossarm or the facility in which it is installed voids this Warranty.

Limitation of Liability

Atropos's liability under this Warranty is limited to the repair or replacement remedy described above. Atropos disclaims liability for incidental or consequential damages, including but not limited to labor costs of removal or reinstallation, to the extent permitted by applicable law.

Governing Law

This Warranty is governed by the laws of the State of Missouri, without regard to conflict-of-law principles.

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Entire Warranty

This document constitutes the entire warranty given by Atropos with respect to UV degradation and fiber blooming of Eclipse-equipped composite crossarms, and supersedes any prior or contemporaneous representations on this subject, whether written or oral, except as otherwise agreed in writing by Atropos.

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CONTACT US

UNYIELDING QUALITY, SERVICE, VALUE

For more information on Atropos composite crossarms and other atropos infrastructure products, please contact us.

- Phone: 314-451-3140
- Email: sales@atropos.build
- Website: www.atropos.build