



AEROSPACE MATERIAL SPECIFICATION	AMS3920™	REV. A
	Issued 1984-04 Revised 1996-10 Reaffirmed 2022-08	
Superseding AMS3920		
Acceptance Criteria Adhesive-Bonded Metal-Faced Sandwich Structures		

RATIONALE

AMS3920A has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE:

1.1 Application:

This specification establishes the acceptance criteria and inspection requirements for adhesive-bonded sandwich structures including the metal-to-metal bonding found in these structures, but usage is not limited to such applications and each application should be considered individually.

1.2 Classification:

The classification of adhesive bonded structures specified in this specification shall be of the following types:

Type 1: Components which are fracture or fatigue critical as defined in MIL-I-6870 and components, the single failure of which would cause significant danger to operating personnel or would result in an operational penalty. This includes loss of major components, loss of control, unintentional release, inability to release armament stores, or failure of weapon installation components.

Type 2: All components not classified as Type 1.

1.2.1 Structural Classification: The structural classification, Type 1 or Type 2, will be specified on the engineering drawing. All structures shall be considered Type 1 unless otherwise specified on the drawing.

1.2.2 Structural Imperfections: Structural imperfections specified in this specification shall be face-to-core voids and disbonds, metal-to-metal voids, bond voids, porosity, core splice voids, core splice gaps, dents, and markoffs. These imperfections are defined in 8.2.

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