

ISO 21347:2025-08 (E)

Space systems - Fracture and damage control

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	9
5	Fracture and mechanical damage control requirements	10
5.1	Fracture control requirements	10
5.1.1	General	10
5.1.2	Fracture-critical item (FCI) classification	10
5.1.3	Fracture control plan	10
5.1.4	Damage tolerance requirements	11
5.1.5	Special provision	14
5.2	Mechanical damage control requirements	14
5.2.1	General	14
5.2.2	Mechanical damage critical item (MDCI) classification	14
5.2.3	Mechanical damage control plan	14
5.3	Non-destructive evaluation (NDE)	16
5.4	Other special requirements	16
5.4.1	Non-fracture-critical item demonstration	16
5.4.2	Leak-before-burst (LBB) failure mode demonstration	19
5.4.3	Traceability and documentation	19
	Annex A (informative) Fracture control implementation guidelines	20
	Annex B (informative) Guidelines for mechanical damage control of composite-overwrapped pressure vessels (COPV)	26
	Bibliography	29