

# E DIN EN 16604-10:2023-06 (E)

Erscheinungsdatum: 2023-05-05

Space sustainability - Space debris mitigation requirements (ISO 24113:2019, modified); English version prEN 16604-10:2023

---

## Contents

Page

European foreword .....	3
Introduction .....	5
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions.....	7
4 Symbols and abbreviated terms.....	11
4.1 Symbols .....	11
4.2 Abbreviated terms.....	11
5 Protected regions.....	12
5.1 General.....	12
5.2 LEO protected region.....	12
5.3 GEO protected region .....	12
6 Technical requirements .....	13
6.1 Avoiding the intentional release of space debris into Earth orbit during normal operations .....	13
6.1.1 General.....	13
6.1.2 Space debris from pyrotechnics and solid rocket motors .....	13
6.2 Avoiding break-ups in Earth orbit.....	13
6.2.1 Intentional break-up .....	13
6.2.2 Accidental break-up caused by an on-board source of energy .....	13
6.2.3 Accidental break-up caused by a collision.....	14
6.3 Disposal of a spacecraft or launch vehicle orbital stage after the end of mission so as to minimize interference with the protected regions .....	14
6.3.1 Provisions for successful disposal .....	14
6.3.2 Disposal to minimize interference with the GEO protected region.....	15
6.3.3 Disposal to minimize interference with the LEO protected region .....	15
6.3.4 Re-entry.....	16
7 Planning requirements.....	16
7.1 General.....	16
7.2 Space debris mitigation plan .....	16
Annex A (informative) Post-launch life cycle phases of a launch vehicle or spacecraft.....	18
Bibliography .....	20