

DIN EN 16604-10:2024-07 (E)

Space sustainability - Space debris mitigation requirements (ISO 24113:2023, modified); English version EN 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 General.....	11
6 Protected regions.....	11
6.1 General.....	11
6.2 LEO protected region	12
6.3 GEO protected region.....	12
7 Technical requirements.....	13
7.1 Restricting the intentional release of space debris into Earth orbit during normal operations.....	13
7.1.1 General.....	13
7.1.2 Space debris from pyrotechnics and solid rocket motors.....	13
7.2 Avoiding break-ups in Earth orbit	13
7.2.1 Intentional break-up	13
7.2.2 Accidental break-up caused by an on-board source of energy	13
7.2.3 Accidental break-up caused by a collision.....	14
7.3 Disposal of a spacecraft or launch vehicle orbital stage after the end of mission so as to minimize interference with the protected regions.....	15
7.3.1 Provisions for successful disposal	15
7.3.2 Disposal to minimize interference with the GEO protected region.....	15
7.3.3 Disposal to minimize interference with the LEO protected region	16
7.3.4 Re-entry.....	17
8 Planning requirements	18
8.1 General.....	18
8.2 Space debris mitigation plan.....	18
Annex A (informative) Post-launch life cycle phases of a launch vehicle or spacecraft.....	19
Bibliography.....	20