

# ISO 9836:2017-09 (E)

## Performance standards in building - Definition and calculation of area and space indicators

---

Contents	Page
Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Units .....	3
5 Intra-muros calculation methods and list of indicators for geometric performance .....	3
5.1 Surface areas .....	3
5.1.1 Calculation principles .....	3
5.1.2 Covered area .....	3
5.1.3 Total floor area .....	3
5.1.4 Intra-muros area .....	5
5.1.5 Net floor area .....	5
5.1.6 Area of structural elements .....	6
5.1.7 Usable area .....	6
5.1.8 Services area .....	7
5.1.9 Circulation area .....	8
5.1.10 Building envelope area .....	8
5.1.11 Effective and actual building loss area .....	8
5.2 Volumes .....	15
5.2.1 Calculation principles .....	15
5.2.2 Gross volume of buildings or parts of buildings which are enclosed and covered on all sides .....	17
5.2.3 Gross volume of buildings or parts of buildings which are not enclosed on all sides up to their full height, but which are covered .....	17
5.2.4 Gross volume of buildings or parts of buildings which are enclosed by components, but which are not covered .....	18
5.2.5 Net volume .....	18
5.2.6 Net volume above intra-muros area .....	18
5.2.7 Net volume above usable area .....	18
5.2.8 Net volume above services area .....	19
5.2.9 Net volume above circulation area .....	19
5.3 Examples of indicators .....	19
5.3.1 Surface area indicators .....	19
5.3.2 Space indicators .....	20
5.3.3 Area/volume indicators .....	21
5.4 Commentary .....	21
Annex A (informative) Examples of using building loss factors for a new construction .....	22
Bibliography .....	23