

DIN EN 17020-2:2023-07 (E)

Extended application of test results on durability of self-closing for fire resistance and/or smoke control doorsets and openable windows - Part 2: Durability of self-closing of steel rolling shutters

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Determination of the field of extended application	6
4.1	General	6
4.2	Procedure for evaluation	6
4.3	Procedure for maximum field of extended application	7
4.4	Interpretation of test results	7
5	Extended application report	8
6	Classification report	8
Annex A (normative) Construction parameter variations		9
Annex B (normative) Metal rolling shutter assemblies stress calculation method		41
B.1	Calculation principles	41
B.2	Calculation of limiting stress and simulation of the maximum curtain weight	41
B.2.1	Calculation of the limiting stress for the varied parameter	41
B.2.2	Simulation of the maximum required curtain weight	41
B.3	Barrel calculations	41
B.4	Barrel support bracket calculations	43
B.5	Shaft / axle calculations	43
B.6	Endplate calculations	44
Annex C (informative) Figures related to Annex A and Annex B		48