

# DIN EN 360:2024-04 (E)

## Personal fall protection equipment - Retractable type fall arresters

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>Requirements .....</b>	<b>9</b>
4.1	Design and ergonomics .....	9
4.2	Materials and construction .....	9
4.3	Retraction tension and function .....	10
4.4	Static strength .....	11
4.5	Dynamic tests .....	12
4.5.1	General .....	12
4.5.2	Dynamic performance - overhead attachment in a vertical application .....	14
4.5.3	Dynamic function - overhead attachment in a vertical application .....	14
4.5.4	Dynamic strength - overhead attachment in a vertical application .....	14
4.5.5	Dynamic performance - foot level attachment in a horizontal application .....	14
4.5.6	Dynamic strength and integrity - foot level attachment in a horizontal application .....	14
4.5.7	Dynamic performance - foot level attachment in a vertical application .....	15
4.5.8	Specific dynamic requirements for twin RTFAs .....	15
4.6	Marking and information .....	15
<b>5</b>	<b>Test methods .....</b>	<b>15</b>
5.1	General examination of material and construction .....	15
5.2	Conditioning .....	16
5.2.1	General .....	16
5.2.2	Heat .....	16
5.2.3	Cold .....	17
5.2.4	Wet .....	17
5.2.5	Corrosion .....	17
5.3	Retraction test .....	17
5.3.1	General .....	17
5.3.2	Method - retraction tension - vertical application .....	17
5.3.3	Method - retraction tension - horizontal application .....	19
5.3.4	Method - retraction function .....	20
5.3.5	Method - retraction function with rotation .....	21
5.4	Static strength .....	22
5.4.1	Apparatus .....	22
5.4.2	Method .....	22
5.5	Dynamic performance .....	22
5.5.1	Apparatus and test sample .....	22
5.5.2	Method .....	22
5.6	Dynamic performance at the maximum rated load after conditioning .....	24
5.6.1	Apparatus and test sample .....	24
5.6.2	Method .....	24
5.7	Dynamic performance at near-full extraction .....	25
5.7.1	Apparatus and test sample .....	25
5.7.2	Method .....	25
5.8	Dynamic function at the minimum rated load .....	27
5.8.1	Apparatus .....	27

5.8.2	Method .....	27
5.9	Dynamic strength .....	27
5.9.1	Apparatus .....	27
5.9.2	Method .....	27
5.10	Dynamic tests in a horizontal application .....	28
5.10.1	Apparatus .....	28
5.10.2	Test sample .....	29
5.10.3	Method - dynamic performance .....	29
5.10.4	Method - dynamic strength and integrity .....	30
5.11	Dynamic tests in a horizontal application with a lateral offset .....	33
5.11.1	Apparatus .....	33
5.11.2	Test sample .....	33
5.11.3	Method - dynamic performance .....	33
5.11.4	Method - dynamic strength and integrity .....	34
5.12	Dynamic performance - foot level attachment in a vertical application .....	37
5.12.1	Apparatus and test sample .....	37
5.12.2	Method .....	37
5.13	Dynamic performance - twin RTFAs with both lanyards in a horizontal opposite arrangement .....	39
5.13.1	Apparatus and test sample .....	39
5.13.2	Method .....	39
6	Marking .....	43
7	Manufacturer's instructions and information .....	45
8	Packaging .....	48
<b>Annex A (normative) Additional requirements and test methods for RTFAs and twin RTFAs for use in mobile elevating work platforms .....</b>		<b>49</b>
A.1	Introduction .....	49
A.2	Requirements .....	49
A.3	Marking and information .....	49
A.4	Test method .....	49
A.4.1	General examination of materials and construction .....	49
A.4.2	Dynamic performance and integrity .....	50
A.5	Marking .....	53
A.6	Manufacturer's instructions and information .....	54
<b>Annex C (informative) Significant technical changes between this European Standard and Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/425 aimed to be covered .....</b>		<b>63</b>
<b>Bibliography .....</b>		<b>65</b>