ABT POLİÜRETAN SANAYİ VE TİCARET DİLER COŞKUN

ELEVATOR PIT BUFFER USER MANUAL

EUROPEAN ELEVATOR DIRECTIVE: 2014/33/EU
NEW STANDARDS: EN 81-20:2020, EN 81-50:2020

1. ABT POLYURETHANE elevator buffers are used to minimize the kinetic energy generated by the elevator cabin or counterweight when the elevator exceeds the point where it is supposed to stop under normal conditions. They must not be used for any other purpose.

2. ABT POLYURETHANE elevator buffers are manufactured according to the new directives and standards for elevators operating at speeds of 1.00 m/s and below, and their use is recommended.

3. The maximum and minimum capacities of the buffers according to elevator speeds are provided in the table, and the appropriate type can be selected. They must not be used outside their specified load capacities.

4. Installation of the buffer: the cabin buffer is placed at the bottom of the shaft under the cabin, and the counterweight buffer is placed centrally under the counterweight impact plate or symmetrically if more than one buffer is used. If the buffer is mounted by bonding to a steel plate base, the steel plate is bolted to the floor at its four corners. The surface on which the buffer rests must be checked with a spirit level to ensure it is horizontal. The mounting surface and impact plate must be designed and installed rigidly so they do not lose alignment or deform over time.

5. During compression under load (maximum compression amount is 80% of the buffer height), there must be no obstruction preventing full compression. Hydraulic buffers are mandatory for all speeds above 1.00 m/s.

6. If more than one buffer is used depending on elevator load, these buffers must be of the same type and height. Buffers of the same height but different stiffness and capacity must not be used together.

7. The environments where elevator shaft buffers are used or stored must be between -40 and +80 degrees. Humidity must not remain continuously above 80%, and buffers must not be in constant contact with water. Buffers are resistant to solid and liquid oils. However, they must be kept away from acids, cleaning materials, and bases. Cracked or damaged buffers must not be used.

10. Buffers must be inspected every six months in the elevator shaft to ensure no damage has occurred and installation integrity has not been compromised. The lifetime of ABT polyurethane elevator buffers is a minimum of five years; when usage and maintenance conditions are followed, their service life can be much longer. Polyurethane buffers require no maintenance. However, the visual condition of these safety components must be inspected periodically. The color of the buffers is white when first manufactured; over time they may turn yellow or brown. This is normal and does not affect the physical or mechanical properties. Buffers must not remain under continuous load during operation or maintenance.

12. For any questions or issues, you may contact “ABT POLIURETAN”.

ABT POLİÜRETAN SANAYİ VE TİCARET DİLER COŞKUN

Data/Type	ABT POLİÜRETAN TAMPON							
	EYL 1	EYL 2	EYL 3	EYL 5	EYL 10080	EYL 12580	EYL 14080	EYL 16580
Nominal Speed (m/s)	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Load Capacity Max. (kg)	2250	2150	3000	750	1600	2000	2800	3750
Load Capacity Min. (kg)	700	700	700	350	400	700	700	700
Diameter (mm)	125	100	125	80	100	125	140	165
Buffer Height (mm)	100	160	195	80	80	80	80	80
Stroke (mm)	71	133	146	30	58	57	60	55

Data/Type	ABT POLİÜRETAN TAMPON							
	EYL 1	EYL 2	EYL 3	EYL 5	EYL 10080	EYL 12580	EYL 14080	EYL 16580
Nominal Speed (m/s)	0,63	0,63	0,63	0,63	0,63	0,63	0,63	0,63
Load Capacity Max. (kg)	3240	3040	4314	1350	2300	2875	4039	5390
Load Capacity Min. (kg)	700	700	700	230	400	700	700	700
Diameter (mm)	125	100	125	80	100	125	140	165
Buffer Height (mm)	100	160	195	80	80	80	80	80
Stroke (mm)	79	133	156	40	78	102	65	59