EN 15551 certified

# BUFFER SPRINGS

- Light-weight TecsPak® proprietary elastomer
- Certified to EN 15551 as per TSI-WAG
- Certified to EN 50125 T1, T2, T3
- Tested for operation from -50°C to +50°C
- Impervious to oil, grease, dust
- Abrasion resistant

A few of the many reasons Miner buffer springs remain the most widely applied in the industry, and the only buffer springs with over 40 years of successful service and more than 1 million units supplied.



30kJ 35kJ 40kJ

- Maximum Wagon Protection
- Minimum Life Cycle Cost
- Reliable Performance
- Unmatched Experience

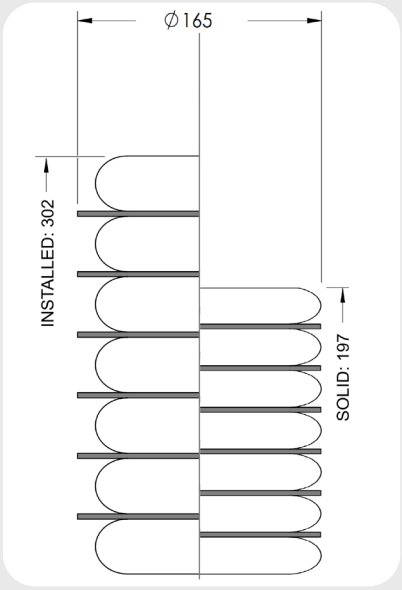
Simple. Reliable. Proven.

MINER ENTERPRISES INC.
W. H. MINER DIVISION

PERFECTING RAILCAR PERFORMANCE

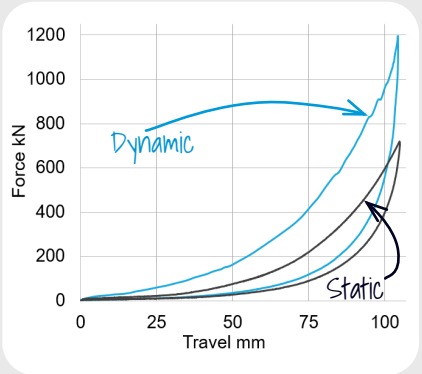
# TECSPAK™ BUFFER SPRINGS

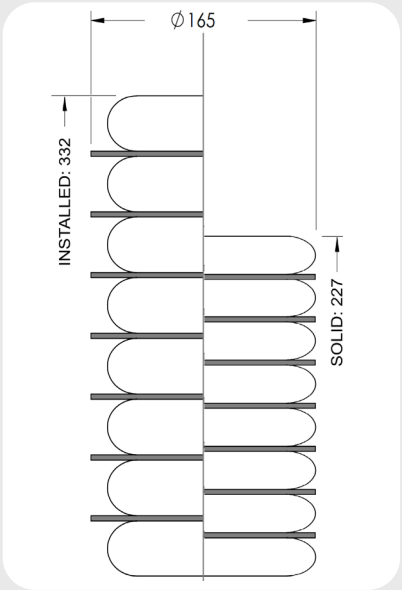
## EN 15551 CERTIFIED




### 30kJ

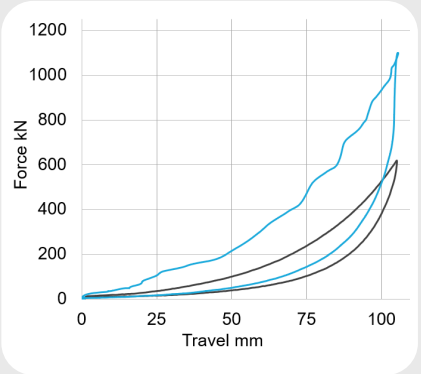
| | |
|---|---|
| Installed height (mm) | 305 |
| Stroke (mm) | 105 |
| Pre-force (kN) | 15 |
| Static Capacity (kJ) | 17.7 |
| Dynamic Capacity (kJ) | 32 |
| Weight (kg) | 7.2 |

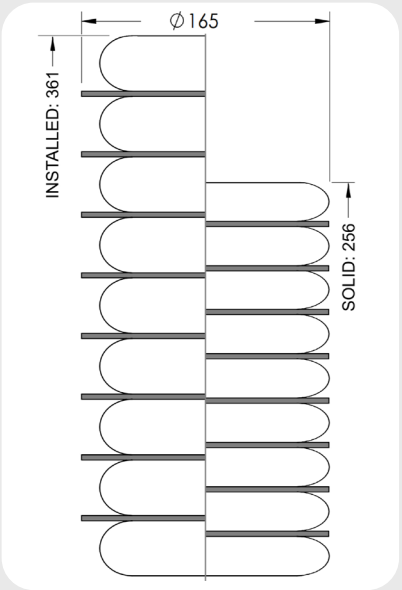



### 35kJ

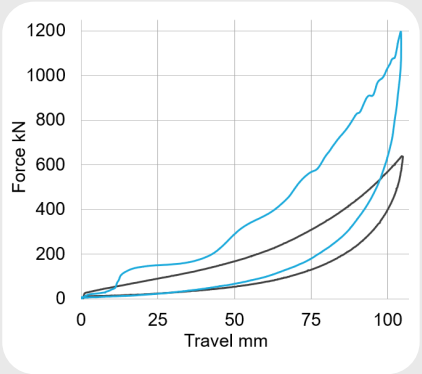
| | |
|---|---|
| Installed height (mm) | 332 |
| Stroke (mm) | 105 |
| Pre-force (kN) | 19 |
| Static Capacity (kJ) | 18.1 |
| Dynamic Capacity (kJ) | 36 |
| Weight (kg) | 8.4 |




### 40kJ

| | |
|---|---|
| Installed height (mm) | 361 |
| Stroke (mm) | 105 |
| Pre-force (kN) | 25 |
| Static Capacity (kJ) | 19.5 |
| Dynamic Capacity (kJ) | 42 |
| Weight (kg) | 9.5 |




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