



TIPOS DE MUELLES

MULTIHOJA

La muelle multihoja llega a contener más de tres hojas y se utiliza generalmente en los ejes traseros de los sistemas de suspensión de las camionetas pick-up y/o camiones de carga.

PARABÓLICA

La muelle parabólica debe su nombre a que asemeja la forma de una parábola a lo largo de la misma. Su tecnología le permite sustituir a las de tipo multihoja por muelles de tres hojas máximo, gracias a que distribuye de mejor forma los esfuerzos en sus hojas.

ZETA

La muelle tipo Z se utiliza en sistemas de suspensión neumática, generalmente sujetando el eje trasero de los tracto camiones y/o autobuses urbanos.



¿CÓMO MEDIR UNA MUELLE?

1



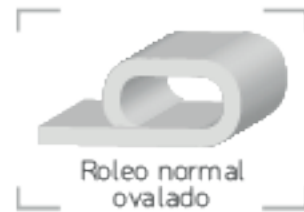
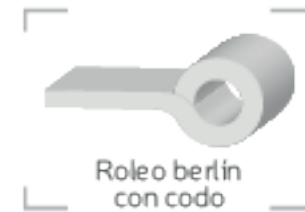
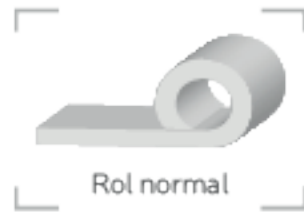
1. La altura libre (arco libre) se mide tomando un hilo de referencia ya sea al centro de los roleos o al ras de las hojas por el lado del patin (hay excepciones donde se debe tomar la medida a puntos de apoyos, también existe la posibilidad de tomar dos alturas cuando la muelle es semielíptica). Se debe tensar el hilo y con una cinta métrica (flexómetro) se toma la medida tocando la punta de la cinta del flexómetro a la hoja maestra en dirección hacia donde está el tornillo de centro y tomar la medida que coincida con el hilo.

2



2. Las longitudes de los lados corto y largo se miden sobre el contorno de la hoja a medir, tomando en cuenta desde el extremo hacia la perforación central, considerando que estas fueron tomadas cuando la hoja de la muelle estaba plana. Cuando la hoja maestra (principal) tiene roleos, las longitudes se toman del centro del diámetro del roleo a la perforación central.

TIPOS DE ROLEOS Y ENVOLVENTES



TIPOS DE ACABADOS



Acabado cuadrado
inserto chabeta



Acabado redondo con
cazuela para inserto



Acabado redondo con doble
perforación para inserto



Acabado tipo despunte



Acabado despalmado
con es cuadra



Acabado con saques
en extremos (Mack)



Despalme cuadrado
sin perforación



Despalme redondo
sin perforación



Acabado cuadrado
con doble perforación



Acabado cuadrado
con ranura



Acabado cuadrado
con ranura



Acabado con perforaciones
extremos (Mack)



Acabado destaje para 1/4 de
rol envolvente y pata de chino

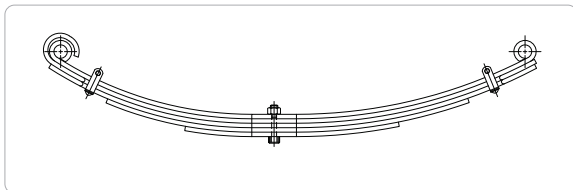


Acabado escuadra
para volvo white



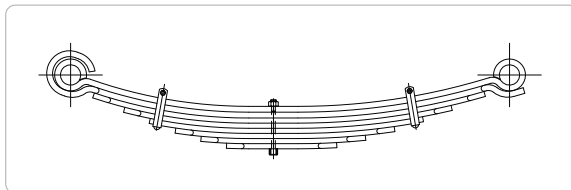
Acabado escuadra
para volvo white

43-500
DELANTERA

S-500 '92-'02


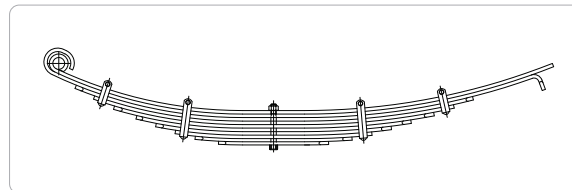
| | | | | | | | | | | |
|------------------------|----------|----|----|---|---|---|---|---|---|----|
| Núm. Original | - | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 5/0.499" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 7" | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓✓ | ✓ | ✓ | | | | | |

55-1248
DELANTERA

7000 NEW GENERATION '00-'06


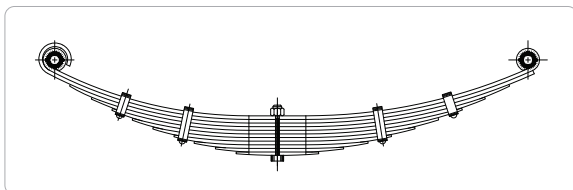
| | | | | | | | | | | |
|------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 3540085-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.709" 6/0.625" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 3/ | | | | | | | | | |
| Buje L.C. | RB-269 | | | | | | | | | |
| Buje L.L. | RB-269 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

70-113
DELANTERA

D-600 '68-'88


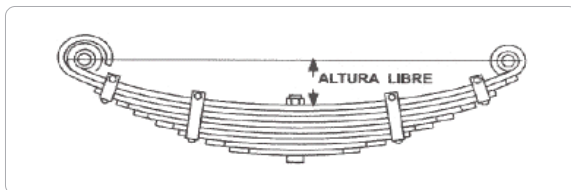
| | | | | | | | | | | |
|------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • A-10530-18 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 8/0.447" 2/0.401" | | | | | | | | | |
| L.C. | 28" | | | | | | | | | |
| L.L | 36" | | | | | | | | | |
| Altura libre | 6" | | | | | | | | | |
| Buje L.C. | RNG | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | ✓ | | | | | | | |

70-125
DELANTERA

D-800 '70-'90


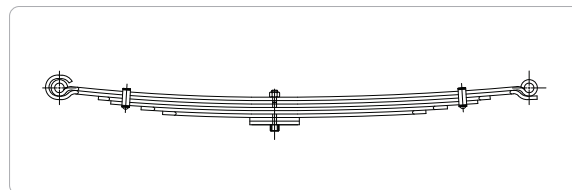
| | | | | | | | | | | |
|------------------------|---------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • A-17530-18 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 11/0.401" | | | | | | | | | |
| L.C. | 25/ " | | | | | | | | | |
| L.L | 28/ " | | | | | | | | | |
| Altura libre | 6/ | | | | | | | | | |
| Buje L.C. | TB-68 ROSCADO | | | | | | | | | |
| Buje L.L. | TB-68 ROSCADO | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | ✓ | | | | | | | |

80-200
DELANTERA

S-500 CAMIÓN MEDIANO '65-'90


| | | | | | | | | | | |
|------------------------|-----------------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • A-3530-A-18 • A-3530-B-18 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 4/0.360" 2/0.323" | | | | | | | | | |
| L.C. | 22 1/2 " | | | | | | | | | |
| L.L | 23" | | | | | | | | | |
| Altura libre | 4" | | | | | | | | | |
| Buje L.C. | LHG | | | | | | | | | |
| Buje L.L. | LHG | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-100-C
DELANTERA

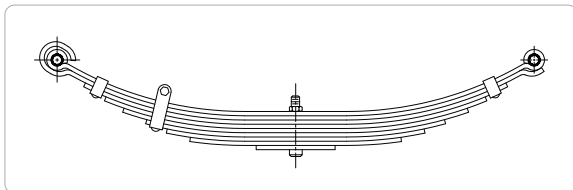
CAMIÓN S-400 BOXER '90-'00


| | | | | | | | | | | |
|------------------------|----------------------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 572355-C91 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 4/0.447" 2/0.401" 2/0.323" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 25" | | | | | | | | | |
| Altura libre | 4/ | | | | | | | | | |
| Buje L.C. | RB-75 | | | | | | | | | |
| Buje L.L. | RB-75 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

81-140-A

DELANTERA

CAMIÓN S-600 '90-'00

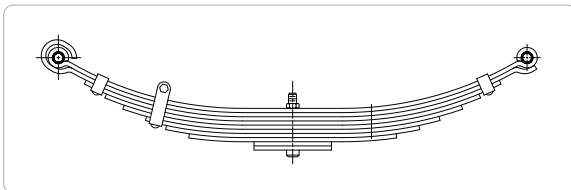


| | | | | | | | | | | |
|------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 2998173-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 8/0.499" 1/0.447" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4" | | | | | | | | | |
| Buje L.C. | NJK | | | | | | | | | |
| Buje L.L. | NJK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-140-B

DELANTERA

CAMIÓN S-600 '90-'00

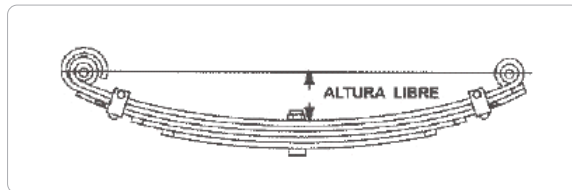


| | | | | | | | | | | |
|------------------------|------------|-----|----|----|----|----|---|---|---|----|
| Núm. Original | • 8234-M91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 10/0.447" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4" | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓ | ✓ | | |

81-140-C

DELANTERA

AUTOBUS URBANO '90-'00

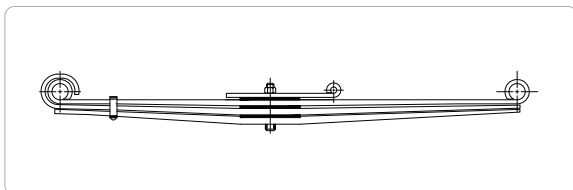


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|------------------------|---------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 1653685-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 4/0.499" | | | | | | | | | |
| L.C. | 29" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 6" | | | | | | | | | |
| Buje L.C. | TB-26 ROSCADO | | | | | | | | | |
| Buje L.L. | TB-26 ROSCADO | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-140-E

DELANTERA

SERIES S-9400 '90-'00

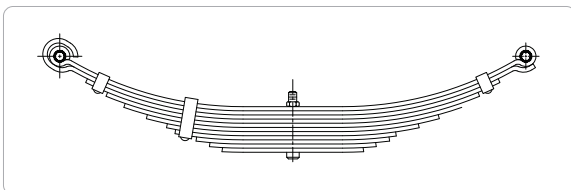


| | | | | | | | | | | |
|------------------------|----------------------|-----|----|---|---|---|---|---|---|----|
| Núm. Original | • 1653751-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 3/0.788" 1/0.323" | | | | | | | | | |
| L.C. | 29" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4 /" | | | | | | | | | |
| Buje L.C. | TB-26 ROSCADO | | | | | | | | | |
| Buje L.L. | TB-26 ROSCADO | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | | | | | | | |

81-140-G

DELANTERA

S-700 '88-'98

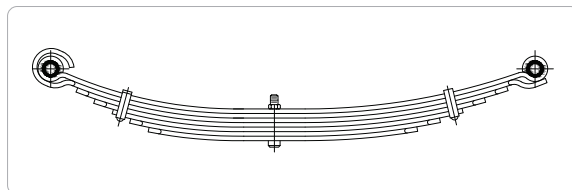


| | | | | | | | | | | |
|------------------------|--------------|-----|----|---|---|---|---|---|---|----|
| Núm. Original | • 533563-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 11/0.499" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4 | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | ✓ | ✓ | ✓ | ✓ | | | |

81-140-K

DELANTERA

SERIE-8000 '02-'08

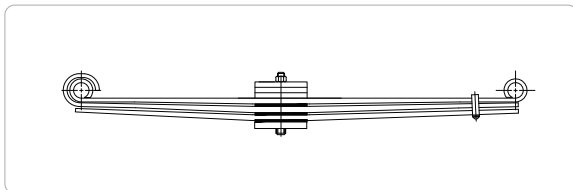


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|------------------------|--------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 533563-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 7/0.499" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4 | | | | | | | | | |
| Buje L.C. | RB-253 | | | | | | | | | |
| Buje L.L. | RB-253 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-170

DELANTERA

SERIE-8000 '02-'08

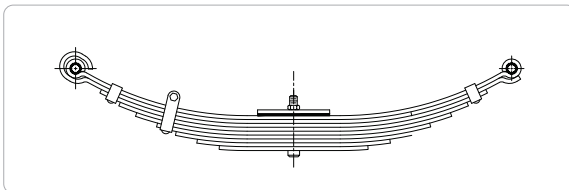


| | | | | | | | | | | |
|------------------------|------------------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 2991412-C91 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 3/1" 3/0.423" 1/0.527" | | | | | | | | | |
| L.C. | 30" | | | | | | | | | |
| L.L. | 28" | | | | | | | | | |
| Altura libre | 3" | | | | | | | | | |
| Buje L.C. | RNG | | | | | | | | | |
| Buje L.L. | RNG | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-170-E

DELANTERA

CAMIÓN S-654/URBANO LINER '04-'12

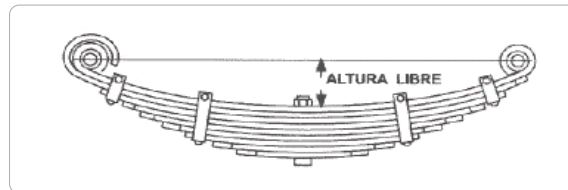


| | | | | | | | | | | |
|------------------------|---------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 2989428-C91 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 10/0.499" | | | | | | | | | |
| L.C. | 30" | | | | | | | | | |
| L.L. | 28" | | | | | | | | | |
| Altura libre | 3" | | | | | | | | | |
| Buje L.C. | RNG | | | | | | | | | |
| Buje L.L. | RNG | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

81-180-F

DELANTERA

S-600



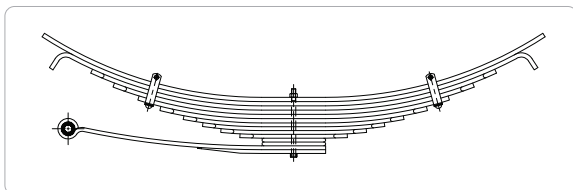
| | | | | | | | | | | |
|------------------------|--------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 640C030070 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 8/0.401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 36" | | | | | | | | | |
| Altura libre | 3 1/2" | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

45-100

TRASERA



CAMIÓN S-1900 '78-'92



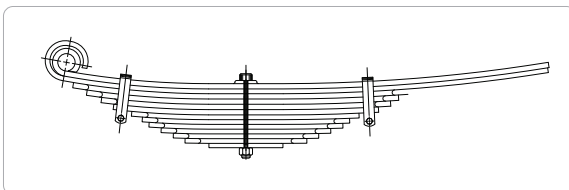
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|------------------------|--|-----|-----|-----|-----|----|----|----|----|----|
| Núm. Original | • 421292-C91 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 6/0.499" 2/0.499" R 8/0.447" 1/0.447" R | | | | | | | | | |
| L.C. | 30/ " | | | | | | | | | |
| L.L. | 30/ " | | | | | | | | | |
| Altura libre | 6 / " | | | | | | | | | |
| Buje L.C. | RNG | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓✓ | ✓✓✓ | ✓✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ |

71-124-A

TRASERA



TRACTO-CAMIÓN '84-'96



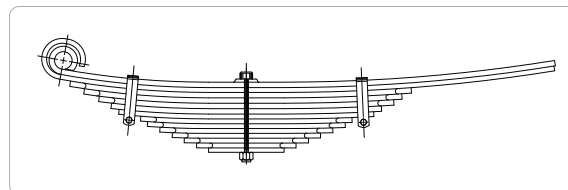
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|------------------------|-----------------------|----|----|----|----|----|----|----|----|----|
| Núm. Original | • 24532-19 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 12/0.625" 1/0.662" | | | | | | | | | |
| L.C. | 17" | | | | | | | | | |
| L.L. | 28/ " | | | | | | | | | |
| Altura libre | 2 / " | | | | | | | | | |
| Buje L.C. | TPK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ |

71-125

TRASERA



TRACTO-CAMIÓN '84-'96



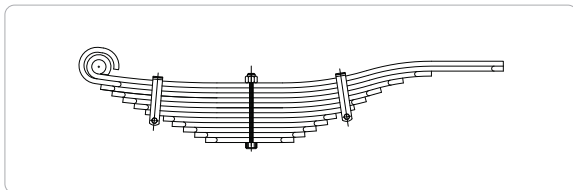
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|------------------------|----------------------------------|-----|----|----|----|----|----|----|----|----|
| Núm. Original | • BA-25912 • A-24555-19 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 5/0.499" 8/0.447" 1/0.401" | | | | | | | | | |
| L.C. | 17" | | | | | | | | | |
| L.L. | 28/ " | | | | | | | | | |
| Altura libre | 2" | | | | | | | | | |
| Buje L.C. | TPK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ |

71-125-C

TRASERA



TRACTO-CAMIÓN '84-'96



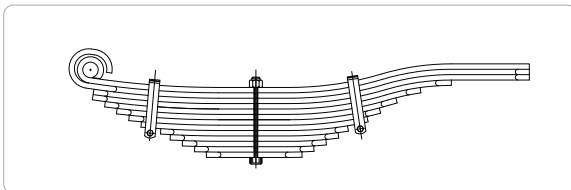
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|------------------------|----------------|-----|----|----|---|---|---|---|---|----|
| Núm. Original | • T-548836-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 12/0.558" | | | | | | | | | |
| L.C. | 17 1/8" | | | | | | | | | |
| L.L | 28 3/8" | | | | | | | | | |
| Altura libre | 2 3/16" | | | | | | | | | |
| Buje L.C. | TPK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | ✓✓ | ✓ | ✓ | ✓ | | | |

71-125-CM

TRASERA



TRACTO-CAMIÓN '84-'96



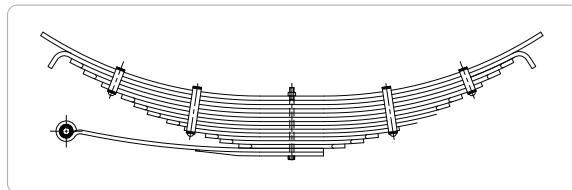
| | | | | | | | | | | |
|------------------------|-------------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • T-548836-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 12/0.558" 1/0.558" R | | | | | | | | | |
| L.C. | 17" | | | | | | | | | |
| L.L | 28" | | | | | | | | | |
| Altura libre | 2" | | | | | | | | | |
| Buje L.C. | TPK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

80-280

TRASERA



D-500/533 CON TIRANTE '65-'85



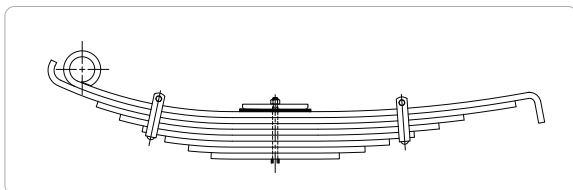
| | | | | | | | | | | |
|------------------------|----------------------|-----|----|----|---|---|---|---|---|----|
| Núm. Original | • A-14532-19 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 6/0.499" 9/0.447" | | | | | | | | | |
| L.C. | 38" | | | | | | | | | |
| L.L | 38" | | | | | | | | | |
| Altura libre | 7" | | | | | | | | | |
| Buje L.C. | RNG | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓ | ✓✓ | ✓ | | | | | |

80-280-B

TRASERA



SUSPENSIÓN E-4 HENDRICKSON 4x4 '86-'90



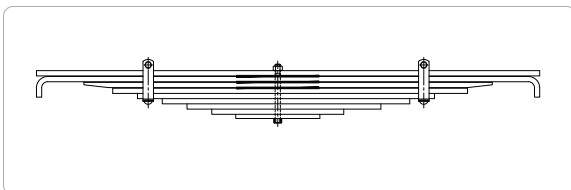
| | | | | | | | | | | |
|------------------------|------------------------------------|----|---|---|---|---|---|---|---|----|
| Núm. Original | • 47475 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 8/0.558" 1/0.558" R 1/0.360" | | | | | | | | | |
| L.C. | 19" | | | | | | | | | |
| L.L | 24/ " | | | | | | | | | |
| Altura libre | - | | | | | | | | | |
| Buje L.C. | RB-167 | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓ | ✓ | | | | | | |

81-200

TRASERA



TIPO TANDEM TRACTO S-9400 '94-'98



| | | | | | | | | | | |
|------------------------|----------------------|-----|-----|-----|----|---|---|---|---|----|
| Núm. Original | • 2995910-C91 | | | | | | | | | |
| Ancho | 3/ " | | | | | | | | | |
| No. de hojas y espesor | 8/0.499" 1/0.401" | | | | | | | | | |
| L.C. | 23" | | | | | | | | | |
| L.L | 25" | | | | | | | | | |
| Altura libre | 2 / | | | | | | | | | |
| Buje L.C. | PATÍN | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓✓ | ✓✓✓ | ✓✓✓ | ✓✓✓ | ✓✓ | ✓ | ✓ | ✓ | ✓ | ✓ |