



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.

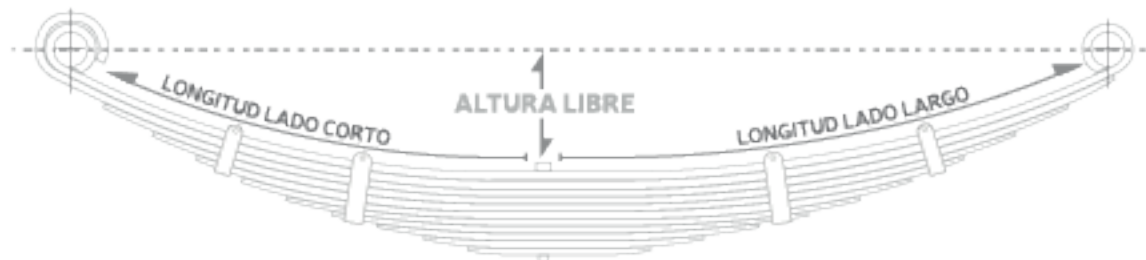
ZETA

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



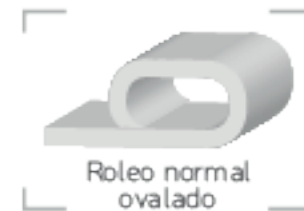
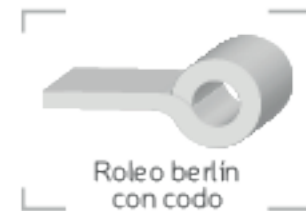
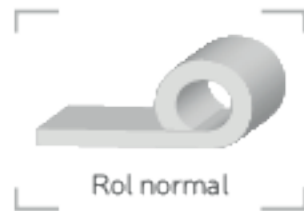
1. La altura libre (arco libre) se mide tomando un hilo de referencia ya sea al centro de los roleos o al ras de las hojas por el lado del patin (hay excepciones donde se debe tomar la medida a puntos de apoyos, también existe la posibilidad de tomar dos alturas cuando la muelle es semielíptica). Se 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 escuadra



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



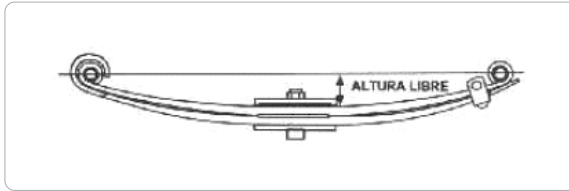
Acabado escuadra
para volvo white



Acabado escuadra
para volvo white

55-1176
DELANTERA


INTERNATIONAL 9700 '96-'99

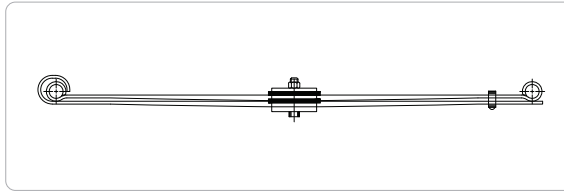


Núm. Original • 1690075-C91

| | | | | | | | | | | |
|------------------------|------------------|----|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.401" 2/1" | | | | | | | | | |
| L.C. | 29" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 4" | | | | | | | | | |
| Buje L.C. | TB-26 | | | | | | | | | |
| Buje L.L. | TB-26 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | | | | | | | | |

55-1192
DELANTERA


SERIES 4000 / 7000 '88-'06

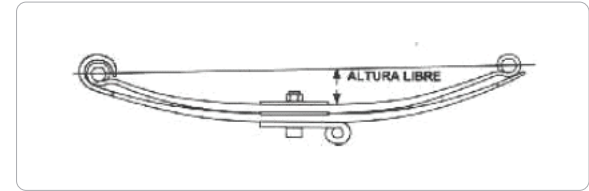


Núm. Original • 2011346-C91

| | | | | | | | | | | |
|------------------------|----------------------|----|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.788" 2/0.401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 5" | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | | | | | | | | |

55-1214
DELANTERA


SERIES 3900 AMTRAN-GENESIS '88-'96

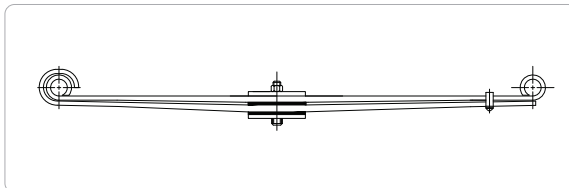


Núm. Original • 2040041-C91

| | | | | | | | | | | |
|------------------------|------------------------|----|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.788" 1/0.788" R | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 3 3/4 | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | | | | | | | | |

55-1218
DELANTERA


SERIES 8100 / 8300 '88-'96

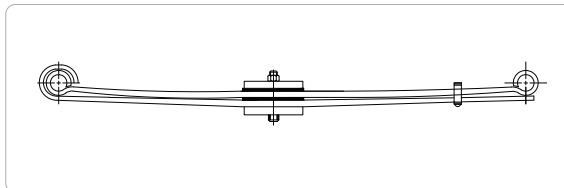


Núm. Original • 3527263-C91

| | | | | | | | | | | |
|------------------------|------------------------|----|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/1" 2/0.323" TACÓN | | | | | | | | | |
| L.C. | 29" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 3" | | | | | | | | | |
| Buje L.C. | RB-253 | | | | | | | | | |
| Buje L.L. | RB-253 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | | | | | | | | |

55-1238
DELANTERA


SERIES 3000 & 4000 NEW GENERATION '04-'10

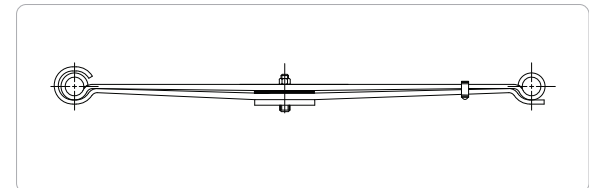


Núm. Original • 3533196-C9

| | | | | | | | | | | |
|------------------------|--------------------|----|---|---|---|---|---|---|---|----|
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 2/0.788" 2/401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L | 29" | | | | | | | | | |
| Altura libre | 3/ " | | | | | | | | | |
| Buje L.C. | RB-270 | | | | | | | | | |
| Buje L.L. | RB-270 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | | | | | | | | |

55-1256
DELANTERA


SERIES 7000 NEW GENERATION '00-'06



Núm. Original • 3540219-C9

| | | | | | | | | | | |
|------------------------|------------------|---|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/1" 1/0.499" | | | | | | | | | |
| 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 | ✓ | ✓ | | | | | | | | |

✓✓✓ Alta Demanda

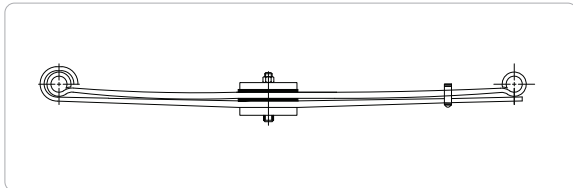
✓✓ Regular Demanda

✓ Baja Demanda

● Sobre Pedido

55-1262
DELANTERA

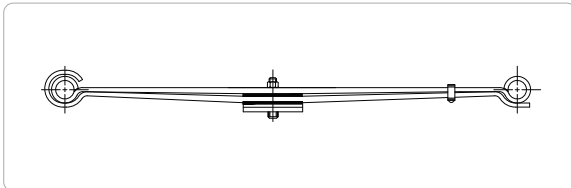

SERIES 7000 NEW GENERATION '00-'06



| | | | | | | | | | | |
|------------------------|------------------------------------|----|---|---|---|---|---|---|---|----|
| Núm. Original | • 3540852-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.886" 2/0.401" 1/0.886" R | | | | | | | | | |
| 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 | ✓✓ | ✓✓ | | | | | | | | |

55-1304
DELANTERA

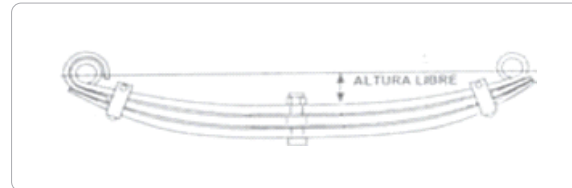

SERIES CF-500/600 '00-'06



| | | | | | | | | | | |
|------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 3586688-C91 | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 2/0.788" 2/0.360" | | | | | | | | | |
| L.C. | 28" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 3" | | | | | | | | | |
| Buje L.C. | RB-247 | | | | | | | | | |
| Buje L.L. | RB-247 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

55-1322
DELANTERA

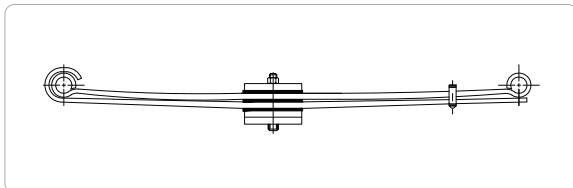

SERIE CONVENCIONAL 9000 '88-'89



| | | | | | | | | | | |
|------------------------|----------------------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 3555571-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 1/0.499" 2/0.938" 1/0.401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 4 3/8" | | | | | | | | | |
| Buje L.C. | TB-26 | | | | | | | | | |
| Buje L.L. | TB-26 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

55-1326
DELANTERA

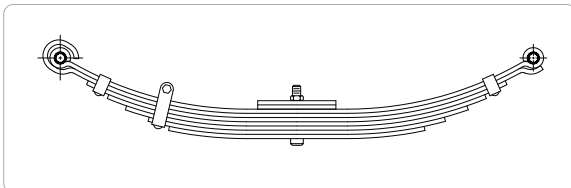

SERIE 8000 NEW GENERATION '00-'06



| | | | | | | | | | | |
|------------------------|----------------------------------|----|---|---|---|---|---|---|---|----|
| Núm. Original | • 3556301-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 2/0.788" 3/0.401" 1/0.788" | | | | | | | | | |
| 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 | ✓✓ | ✓✓ | | | | | | | | |

55-148
DELANTERA

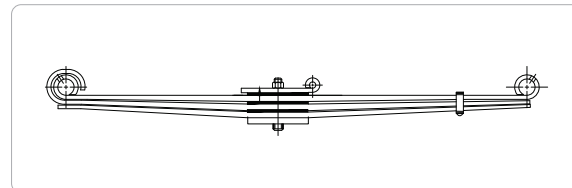

CARROSADO URBANO '01-'03



| | | | | | | | | | | |
|------------------------|---------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 1661469-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 9/0.447" | | | | | | | | | |
| 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 | ✓ | ✓ | | | | | | | | |

55-930
DELANTERA

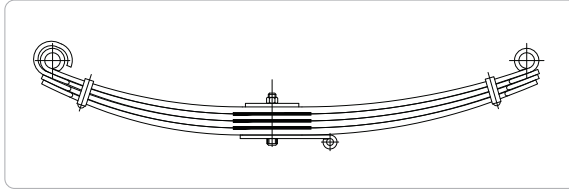

SERIES 9000 CONVENCIONAL '00-'06



| | | | | | | | | | | |
|------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| Núm. Original | • 588204-C1 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 3/0.662" 2/0.401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 5/ " | | | | | | | | | |
| Buje L.C. | TB-26 | | | | | | | | | |
| Buje L.L. | TB-26 | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

55-964
DELANTERA

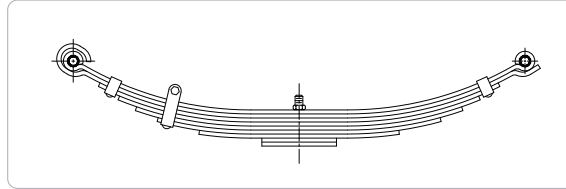

SERIES 9000 CONVENCIONAL '00-'06



| | | | | | | | | | | |
|------------------------|----------------------|----|----|---|---|---|---|---|---|----|
| Núm. Original | • 584647-C92 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 4/0.788" 2/0.401" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 5" | | | | | | | | | |
| Buje L.C. | TB-68 ROSCADO | | | | | | | | | |
| Buje L.L. | TB-68 ROSCADO | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓✓ | | | | | | | |

55-140-BRTP
DELANTERA

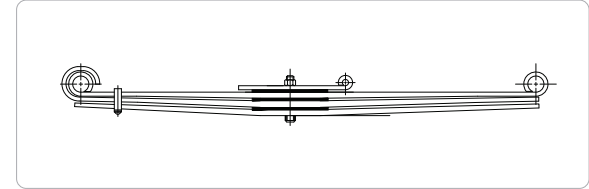
AUTOBUS URBANO '90-'00



| | | | | | | | | | | |
|------------------------|----------|---|---|---|---|---|---|---|---|----|
| Núm. Original | - | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 9/0.447" | | | | | | | | | |
| 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-EM
DELANTERA

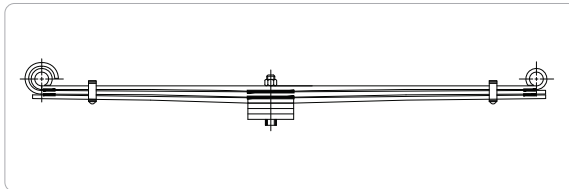

SERIES-S-9400 '90-'00



| | | | | | | | | | | |
|------------------------|------------------|----|----|---|---|---|---|---|---|----|
| Núm. Original | • 1653751-C91 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 3/1" 1/0.323" | | | | | | | | | |
| L.C. | 29" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| 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 | ✓✓ | ✓✓ | ✓✓ | | | | | | | |

81-140-F
DELANTERA

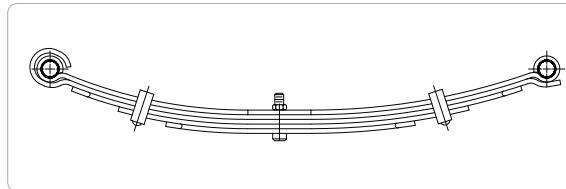

S-500 '90-'98



| | | | | | | | | | | |
|------------------------|----------------------|----|----|---|---|---|---|---|---|----|
| Núm. Original | • 2996707-C92 | | | | | | | | | |
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 3/0.625" 3/0.662" | | | | | | | | | |
| L.C. | 25" | | | | | | | | | |
| L.L. | 29" | | | | | | | | | |
| Altura libre | 5 / " | | | | | | | | | |
| Buje L.C. | RNK | | | | | | | | | |
| Buje L.L. | RNK | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓✓ | | | | | | | |

81-140-KA
DELANTERA

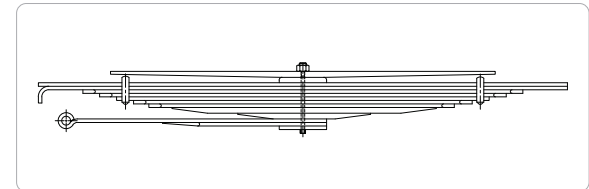

SERIE-8000 '02-'08



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

45-170-A
DELANTERA


INTERNATIONAL '06



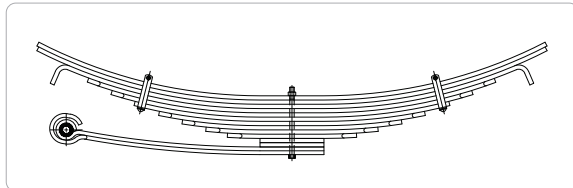
| | | | | | | | | | | |
|------------------------|---|----|----|----|----|----|---|---|---|----|
| Núm. Original | - | | | | | | | | | |
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 2/0.558" 4/0.499" 5/0.625" 1/0.662"AUX 2/0.812" | | | | | | | | | |
| L.C. | 19 1/2" | | | | | | | | | |
| L.L. | 19 1/2" | | | | | | | | | |
| Altura libre | 3 1/2" | | | | | | | | | |
| Buje L.C. | PATÍN | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓✓ | ✓ | | | |

55-1217

TRASERA



SERIE 4300 URBANO LARGO



Núm. Original

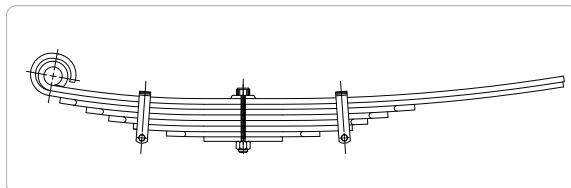
• 3534537-C91

| | | | | | | | | | | |
|------------------------|-----------------------|---|---|---|---|---|---|---|---|----|
| Ancho | 3" | | | | | | | | | |
| No. de hojas y espesor | 12/0.499" 2/0.447" | | | | | | | | | |
| L.C. | 30/ " | | | | | | | | | |
| L.L | 30/ " | | | | | | | | | |
| Altura libre | 6/ " | | | | | | | | | |
| Buje L.C. | RB-164 | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | ✓ | ✓ | | | | | | | | |

71-124-B

TRASERA

TRACTO-CAMIÓN (SUSP. HENDRICKSON) '84-'96



Núm. Original

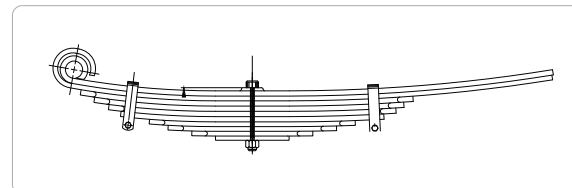
-

| | | | | | | | | | | |
|------------------------|----------|---|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 8/0.625" | | | | | | | | | |
| L.C. | 17/ " | | | | | | | | | |
| L.L | 20/ " | | | | | | | | | |
| Altura libre | 2" | | | | | | | | | |
| Buje L.C. | TPK | | | | | | | | | |
| Buje L.L. | PATÍN | | | | | | | | | |
| Hoja | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Demanda | | | | | | | | | | |

71-124-F

TRASERA

TRACTO-CAMIÓN (SUSP. HENDRICKSON) '84-'96



Núm. Original

-

| | | | | | | | | | | |
|------------------------|-----------|---|---|---|---|---|---|---|---|----|
| Ancho | 4" | | | | | | | | | |
| No. de hojas y espesor | 10/0.625" | | | | | | | | | |
| 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 | | | | | | | | | | |