



CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000821965 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093310/03 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000489650 | DATE 08/24/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.10 | 0.91 | 0.013 | 0.043 | 0.19 | 0.29 | 0.11 | 0.17 | 0.027 | 0.005 | 0.001 | 0.022 | 0.003 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55191 | 71570 | 380 | 494 | 8.000 | 200.0 | 25.20 |
| 55725 | 71985 | 384 | 496 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 28839; Swing = 17°, 16° Dr/Dr Interlock Strength-lbs per lineal inch = 24809; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 25469; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25641; Swing = 17°, 16°

Gerdau's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

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|--|---|
|  BHASKAR YALAMANCHILI QUALITY DIRECTOR Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com |  WADE LUMPKINS QUALITY ASSURANCE MGR. Phone: 972-779-3118 Email: Wade.Lumpkins@gerdau.com |
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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000822695 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093310/03 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000489868 | DATE 08/25/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.10 | 0.91 | 0.013 | 0.043 | 0.19 | 0.29 | 0.11 | 0.17 | 0.027 | 0.005 | 0.001 | 0.022 | 0.003 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55191 | 71570 | 380 | 494 | 8.000 | 200.0 | 25.20 |
| 55725 | 71985 | 384 | 496 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 28839; Swing = 17°, 16° Dr/Dr Interlock Strength-lbs per lineal inch = 24809; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 25469; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25641; Swing = 17°, 16°

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| Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com | Phone: 972-779-3118 Email: Wade.Lumpkins@gerdau.com |



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MIDLOTHIAN, TX 76065
USA

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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000821945 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 33,594 LB | HEAT / BATCH 59093310/03 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000489643 | DATE 08/24/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.10 | 0.91 | 0.013 | 0.043 | 0.19 | 0.29 | 0.11 | 0.17 | 0.027 | 0.005 | 0.001 | 0.022 | 0.003 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55191 | 71570 | 380 | 494 | 8.000 | 200.0 | 25.20 |
| 55725 | 71985 | 384 | 496 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 28839; Swing = 17°, 16° Dr/Dr Interlock Strength-lbs per lineal inch = 24809; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 25469; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25641; Swing = 17°, 16°

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CERTIFIED MATERIAL TEST REPORT

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300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

Table with customer information: CUSTOMER SHIP TO, CUSTOMER BILL TO, GRADE, SHAPE / SIZE, DOCUMENT ID, LENGTH, WEIGHT, HEAT / BATCH, SALES ORDER, CUSTOMER MATERIAL N°, SPECIFICATION / DATE or REVISION, CUSTOMER PURCHASE ORDER NUMBER, BILL OF LADING, DATE.

Table with chemical composition: C (%), Mn (%), P (%), S (%), Si (%), Cu (%), Ni (%), Cr (%), Mo(%), Sn (%), V (%), Nb (%), Al (%), CEqvA6 (%).

Table with mechanical properties: YS 0.2% (PSI), UTS (PSI), YS (MPa), UTS (MPa), G/L (Inches), G/L (mm), Elong. (%).

COMMENTS / NOTES
Op/Op Interlock Strength-lbs per lineal inch = 28544; Swing = 17°, 18° Dr/Dr Interlock Strength-lbs per lineal inch = 25513; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 24404; Swing = 17°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 24008; Swing = 18°, 17°
Gerdaus steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

Bhaskar YALAMANCHILI
QUALITY DIRECTOR

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MIDLOTHIAN, TX 76065
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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000822895 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093310/03 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000489944 | DATE 08/25/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.10 | 0.91 | 0.013 | 0.043 | 0.19 | 0.29 | 0.11 | 0.17 | 0.027 | 0.005 | 0.001 | 0.022 | 0.003 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55191 | 71570 | 380 | 494 | 8.000 | 200.0 | 25.20 |
| 55725 | 71985 | 384 | 496 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 28839; Swing = 17°, 16° Dr/Dr Interlock Strength-lbs per lineal inch = 24809; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 25469; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25641; Swing = 17°, 16°

Gerdau's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000822666 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093310/03 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000489861 | DATE 08/25/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.10 | 0.91 | 0.013 | 0.043 | 0.19 | 0.29 | 0.11 | 0.17 | 0.027 | 0.005 | 0.001 | 0.022 | 0.003 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55191 | 71570 | 380 | 494 | 8.000 | 200.0 | 25.20 |
| 55725 | 71985 | 384 | 496 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 28839; Swing = 17°, 16° Dr/Dr Interlock Strength-lbs per lineal inch = 24809; Swing = 16°, 17° Op/Dr Interlock Strength-lbs per lineal inch = 25469; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25641; Swing = 17°, 16°

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USA

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|--|--|--|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON,TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON,TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000823929 |
| SALES ORDER 12141412/000010 | | CUSTOMER MATERIAL N° STK | | LENGTH 60'00" | WEIGHT 6,108 LB | HEAT / BATCH 59093304/06 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000490266 | DATE 08/29/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.98 | 0.019 | 0.027 | 0.21 | 0.36 | 0.12 | 0.22 | 0.025 | 0.006 | 0.001 | 0.023 | 0.003 | 0.33 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 58519 | 74623 | 404 | 514 | 8.000 | 200.0 | 24.50 |
| 57921 | 74935 | 399 | 517 | 8.000 | 200.0 | 24.60 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 22227; Swing = 15°, 17° Dr/Dr Interlock Strength-lbs per lineal inch = 25191; Swing = 16°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 27727; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25563; Swing = 16°, 17°

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USA

Table with customer information: CUSTOMER SHIP TO, CUSTOMER BILL TO, GRADE, SHAPE / SIZE, DOCUMENT ID, LENGTH, WEIGHT, HEAT / BATCH, SALES ORDER, CUSTOMER MATERIAL N°, SPECIFICATION / DATE or REVISION, CUSTOMER PURCHASE ORDER NUMBER, BILL OF LADING, DATE.

Table with chemical composition: C (%), Mn (%), P (%), S (%), Si (%), Cu (%), Ni (%), Cr (%), Mo(%), Sn (%), V (%), Nb (%), Al (%), CEqvA6 (%).

Table with mechanical properties: YS 0.2% (PSI), UTS (PSI), YS (MPa), UTS (MPa), G/L (Inches), G/L (mm), Elong. (%).

COMMENTS / NOTES
Op/Op Interlock Strength-lbs per lineal inch = 27142; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 27740; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 26505; Swing = 18°, 15° Dr/Op Interlock Strength-lbs per lineal inch = 26404; Swing = 18°, 16°
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Handwritten signatures and names: Bhaskar Yalamanchili (Quality Director), Wade Lumpkins (Quality Assurance MGR). Includes contact information: Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com and Phone: 972-779-3118 Email: Wade.Lumpkins@gerdau.com.



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MIDLOTHIAN, TX 76065
USA

Table with customer information: CUSTOMER SHIP TO, CUSTOMER BILL TO, GRADE, SHAPE / SIZE, DOCUMENT ID, LENGTH, WEIGHT, HEAT / BATCH, SALES ORDER, CUSTOMER MATERIAL N°, SPECIFICATION / DATE or REVISION, CUSTOMER PURCHASE ORDER NUMBER, BILL OF LADING, DATE.

Table with chemical composition: C (%), Mn (%), P (%), S (%), Si (%), Cu (%), Ni (%), Cr (%), Mo(%), Sn (%), V (%), Nb (%), Al (%), CEqvA6 (%).

Table with mechanical properties: YS 0.2% (PSI), UTS (PSI), YS (MPa), UTS (MPa), G/L (Inches), G/L (mm), Elong. (%).

COMMENTS / NOTES
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Bhaskar Yalamanchili
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QUALITY DIRECTOR

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|---|--|---|--|--------------------|--------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 27.5 | DOCUMENT ID: 0000830636 |
| SALES ORDER 12141412/000020 | | CUSTOMER MATERIAL N° | | LENGTH 30'00" | WEIGHT 5,412 LB | HEAT / BATCH 59097578/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492554 | | DATE 09/15/2022 | | |
| SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-14 ASTM A709-18 | | | | | | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.08 | 0.95 | 0.017 | 0.035 | 0.22 | 0.31 | 0.09 | 0.21 | 0.024 | 0.005 | 0.001 | 0.020 | 0.001 | 0.31 |


| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 55759 | 70254 | 384 | 484 | 8.000 | 200.0 | 25.00 |
| 56362 | 71014 | 389 | 490 | 8.000 | 200.0 | 26.10 |

COMMENTS / NOTES

Gerdaus steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

 BHASKAR YALAMANCHILI
 QUALITY DIRECTOR

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| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON,TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON,TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 27.5 | DOCUMENT ID: 0000830637 |
| SALES ORDER 12141412/000020 | | CUSTOMER MATERIAL N° | | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-14 ASTM A709-18 | | |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000492554 | DATE 09/15/2022 | | |
| | | LENGTH 30'00" | | WEIGHT 5,412 LB | | HEAT / BATCH 59097592/04 |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 1.03 | 0.017 | 0.031 | 0.26 | 0.34 | 0.10 | 0.20 | 0.029 | 0.005 | 0.001 | 0.023 | 0.001 | 0.34 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 59563 | 75963 | 411 | 524 | 8.000 | 200.0 | 26.10 |
| 59380 | 75729 | 409 | 522 | 8.000 | 200.0 | 26.30 |

COMMENTS / NOTES

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|--|--|--|--------------------|--|--------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON,TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON,TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 27.5 | DOCUMENT ID: 0000830638 |
| SALES ORDER 12141412/000020 | | CUSTOMER MATERIAL N° | | LENGTH 30'00" | WEIGHT 4,059 LB | HEAT / BATCH 59097594/04 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492554 | DATE 09/15/2022 | | | |
| | | | | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-14 ASTM A709-18 | | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.92 | 0.017 | 0.024 | 0.23 | 0.36 | 0.09 | 0.16 | 0.027 | 0.006 | 0.001 | 0.020 | 0.000 | 0.31 |

| MECHANICAL PROPERTIES | | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|--|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) | |
| 57578 | 74014 | 397 | 510 | 8.000 | 200.0 | 25.00 | |
| 57922 | 74370 | 399 | 513 | 8.000 | 200.0 | 25.20 | |

COMMENTS / NOTES

Gerdau's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

Bhaskar
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Wade A. Lumpkins
WADE LUMPKINS
QUALITY ASSURANCE MGR.

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

| | | | | | | |
|---|--|---|--|--------------------|------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000830183 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093306/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492414 | | DATE 09/15/2022 | | |
| SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | | | | | | |

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.97 | 0.020 | 0.032 | 0.24 | 0.31 | 0.10 | 0.20 | 0.023 | 0.006 | 0.001 | 0.022 | 0.004 | 0.32 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 57614 | 74953 | 397 | 517 | 8.000 | 200.0 | 25.70 |
| 57313 | 74419 | 395 | 513 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 27142; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 27740; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 26505; Swing = 18°, 15° Dr/Op Interlock Strength-lbs per lineal inch = 26404; Swing = 18°, 16°

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|---|--|---|--|--------------------|------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000829989 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 6,108 LB | HEAT / BATCH 59093302/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492333 | | DATE 09/14/2022 | | |
| SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | | | | | | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.08 | 0.98 | 0.013 | 0.019 | 0.24 | 0.34 | 0.11 | 0.18 | 0.026 | 0.007 | 0.001 | 0.024 | 0.004 | 0.32 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 57520 | 72482 | 397 | 500 | 8.000 | 200.0 | 25.20 |
| 58404 | 74302 | 403 | 512 | 8.000 | 200.0 | 24.50 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 21714; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 25976; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 24804; Swing = 17°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 24362; Swing = 15°, 17°

Gerdaus steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact metalsrecycling@gerdau.com.

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|--|--|--|--|--------------------|------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON,TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON,TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000829990 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 6,108 LB | HEAT / BATCH 59093304/06 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492333 | | DATE 09/14/2022 | | |
| SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | | | | | | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.98 | 0.019 | 0.027 | 0.21 | 0.36 | 0.12 | 0.22 | 0.025 | 0.006 | 0.001 | 0.023 | 0.003 | 0.33 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 58519 | 74623 | 404 | 514 | 8.000 | 200.0 | 24.50 |
| 57921 | 74935 | 399 | 517 | 8.000 | 200.0 | 24.60 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 22227; Swing = 15°, 17° Dr/Dr Interlock Strength-lbs per lineal inch = 25191; Swing = 16°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 27727; Swing = 15°, 16° Dr/Op Interlock Strength-lbs per lineal inch = 25563; Swing = 16°, 17°

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000829991 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 24,432 LB | HEAT / BATCH 59093306/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000492333 | DATE 09/14/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |


| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.97 | 0.020 | 0.032 | 0.24 | 0.31 | 0.10 | 0.20 | 0.023 | 0.006 | 0.001 | 0.022 | 0.004 | 0.32 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 57614 | 74953 | 397 | 517 | 8.000 | 200.0 | 25.70 |
| 57313 | 74419 | 395 | 513 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 27142; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 27740; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 26505; Swing = 18°, 15° Dr/Op Interlock Strength-lbs per lineal inch = 26404; Swing = 18°, 16°

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000830623 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 36,648 LB | HEAT / BATCH 59093306/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | | BILL OF LADING 1327-0000492551 | DATE 09/15/2022 | SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.97 | 0.020 | 0.032 | 0.24 | 0.31 | 0.10 | 0.20 | 0.023 | 0.006 | 0.001 | 0.022 | 0.004 | 0.32 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) |
| 57614 | 74953 | 397 | 517 | 8.000 | 200.0 | 25.70 |
| 57313 | 74419 | 395 | 513 | 8.000 | 200.0 | 24.80 |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 27142; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 27740; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 26505; Swing = 18°, 15° Dr/Op Interlock Strength-lbs per lineal inch = 26404; Swing = 18°, 16°

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CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

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|---|--|---|--|--------------------|------------------------------------|-----------------------------|
| CUSTOMER SHIP TO JD FIELDS & COMPANY 55 WAUGH DR HOUSTON, TX 77007-5800 USA | | CUSTOMER BILL TO J D FIELDS & COMPANY INC HOUSTON, TX 77219-4401 USA | | GRADE A572-50 | SHAPE / SIZE Sheet Pile PS / 31 | DOCUMENT ID: 0000830640 |
| SALES ORDER 12141412/000030 | | CUSTOMER MATERIAL N° | | LENGTH 60'00" | WEIGHT 12,216 LB | HEAT / BATCH 59093306/05 |
| CUSTOMER PURCHASE ORDER NUMBER 78-72378 | | BILL OF LADING 1327-0000492554 | | DATE 09/15/2022 | | |
| SPECIFICATION / DATE or REVISION ASTM A572-15 ASTM A6-17 ASTM A709-17 | | | | | | |



| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | Sn (%) | V (%) | Nb (%) | Al (%) | CEqvA6 (%) |
| 0.09 | 0.97 | 0.020 | 0.032 | 0.24 | 0.31 | 0.10 | 0.20 | 0.023 | 0.006 | 0.001 | 0.022 | 0.004 | 0.32 |

| MECHANICAL PROPERTIES | | | | | | | |
|-----------------------|-----------|----------|-----------|--------------|----------|------------|--|
| YS 0.2% (PSI) | UTS (PSI) | YS (MPa) | UTS (MPa) | G/L (Inches) | G/L (mm) | Elong. (%) | |
| 57614 | 74953 | 397 | 517 | 8.000 | 200.0 | 25.70 | |
| 57313 | 74419 | 395 | 513 | 8.000 | 200.0 | 24.80 | |

COMMENTS / NOTES

Op/Op Interlock Strength-lbs per lineal inch = 27142; Swing = 15°, 15° Dr/Dr Interlock Strength-lbs per lineal inch = 27740; Swing = 15°, 16° Op/Dr Interlock Strength-lbs per lineal inch = 26505; Swing = 18°, 15° Dr/Op Interlock Strength-lbs per lineal inch = 26404; Swing = 18°, 16°

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