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Název výstupního souboru : C:\AAA\Škola\05-semestr\BakalarskaPrace\vypocet\4001.mes
Měřítkový koeficient: 1.0000000000 (0.0 mm/100m)

POZOR! Měřítkový koeficient nastaven na hodnotu 1.0.
POZOR! Vypnuta redukce délky na vodorovnou, nebo nebylo možno některé délky redukovat. Do seznamu měření byly načteny šikmé délky.

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Počet bodů s vodorovnou délkou  :      0
Počet bodů se zenitovým úhelom  :     56
Počet bodů s převýšením         :      0
Počet bodů s kódem / bez kódu   :     56 / 1
Počet měření v I/II poloze      :     56 / 0
Číslo min / Číslo max           : 1 / 4005
Z min / Z max                   :  70.13775 / 100.63999
Délka min / Délka max           :   10.6288m /   29.3017m
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**Průměr:** 260.15619 79.35744 14.2565 4.7918

**Stanovisko:** 4001

**Cíl:** 102

**Průměr:** 258.36587 77.23905 14.4186 5.3865

**Stanovisko:** 4001

**Cíl:** 103
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Stanovisko: 4001

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Stanovisko: 4001

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Stanovisko: 4001

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Stanovisko: 4001

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Stanovisko: 4001

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STATISTIKA:

Vodorovné směry:

Počet vzhledových směrů: 56
Počet podezřelých směrů: 0
Počet chybných směrů: 0
Zenitové úhly:
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Počet vyhovujících zenitových úhlů : 56
Počet podezřelých zenitových úhlů  : 0
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## NÁZEV VSTUPNÍHO SOUBORU

Název vstupního souboru: C:\AAA\Škola\05-semestr\BakalarskaPrace\vypocet\4006.gsi

## NÁZEV VÝSTUPNÍHO SOUBORU

Název výstupního souboru: C:\AAA\Škola\05-semestr\BakalarskaPrace\vypocet\4006.mes

## MĚŘITKOVÝ KOEFICIENT

Měřítkový koeficient: 1.0000000000 (0.0 mm/100m)

## POZOR!

POZOR! Měřítkový koeficient nastaven na hodnotu 1.0.

POZOR! Vypnuta redukce délek na vodorovné, nebo nebylo možno některé délky redukovat. Do seznamu měření byly načteny šikmé délky.

## STATISTIKA

- Počet položek: 57
- Počet stanovišť: 1
- Počet bodů se šikmou délkou: 56
- Počet bodů se vodorovnou délkou: 0
- Počet bodů se zenitovým úhlem: 56
- Počet bodů s převýšením: 0
- Počet bodů s kódem / bez kódu: 56 / 1
- Číslo min / Číslo max: 1 / 4006
- Z min / Z max: 69.03355 / 99.69101
- Délka min / Délka max: 11.8722m / 28.6431m
- Signál min / Signál max: 0.2000m / 1.5000m

## REDUKCE ŠIKMÝCH DÉLEK NA VODOROVNÉ

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### Zpracování opakováných měření

**?: Podezřelé měření:**
- oprava vodorovného směru > 0.00050g,
- oprava indexového úhlu > 0.00050g,
- oprava délky a převýšení > 0.0004m

**x**: Chybné měření:
- oprava vodorovného směru > 0.00100g,
- oprava indexového úhlu > 0.00100g,
- oprava délky a převýšení > 0.0008m

### Stanovisko: 4006

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<tr>
<th>Měření</th>
<th>Hz váha</th>
<th>v Hz</th>
<th>Z váha</th>
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<th>v Délky</th>
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Průměr: 343.80787 99.64104 27.1656 0.1532

### Stanovisko: 4006

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Průměr: 91.17805 99.11339 12.4858 0.1739

### Stanovisko: 4006

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Stanovisko: 4006
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--|--|--|--|--|--|--|--|
1  80.93174 1 0.00010 71.42005 1 -0.00005 12.0312 1 0.0000 5.7959 1 0.0000
2  80.93194 1 -0.00010 71.41995 1 0.00005 12.0313 1 -0.0000 5.7960 1 -0.0000

Průměr: 80.93184 71.42000 12.0313 5.7959
Stanovisko: 4006
Cíl: 2
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1  62.88430 1 -0.00021 74.33502 1 -0.00010 11.8463 1 0.0000 5.0632 1 0.0000
2  62.88388 1 0.00021 74.32482 1 0.00010 11.8664 1 -0.0000 5.0633 1 -0.0000

Průměr: 62.88409 74.32492 11.8664 5.0633
Stanovisko: 4006
Cíl: 3
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--|--|--|--|--|--|--|--|
1  34.32510 1 0.00016 77.54388 1 0.00001 13.7588 1 0.0000 5.0654 1 -0.0000
2  34.32542 1 -0.00016 77.54308 1 -0.00010 13.7588 1 -0.0000 5.0653 1 0.0000

Průměr: 34.32526 77.54328 13.7588 5.0653
Stanovisko: 4006
Cíl: 4
Měření | Hz váha | v Hz | Z váha | v Z | Délka váha | v Délky | dH váha | v dH
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1  15.36558 1 -0.00003 82.18080 1 0.00004 17.6031 1 0.0001 5.0600 1 0.0000
2  15.36553 1 0.00003 82.18087 1 -0.00004 17.6032 1 -0.0001 5.0600 1 -0.0000

Průměr: 15.36556 82.18084 17.6031 5.0600
Stanovisko: 4006
Cíl: 5
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1  3.88640 1 -0.00022 85.85536 1 0.00013 22.3972 1 0.0001 5.0598 1 -0.0000
2  3.88596 1 0.00022 85.85562 1 -0.00013 22.3973 1 -0.0001 5.0597 1 0.0000

Průměr: 3.88618 85.85549 22.3972 5.0598
Stanovisko: 4006
Cíl: 6
Měření | Hz váha | v Hz | Z váha | v Z | Délka váha | v Délky | dH váha | v dH
--|--|--|--|--|--|--|--|
1  396.55826 1 -0.00028 88.51514 1 -0.00013 27.6966 1 -0.0000 5.0533 1 0.0001
2  396.55771 1 0.00028 88.51088 1 0.00013 27.6966 1 0.0000 5.0534 1 -0.0001

Průměr: 396.55799 88.51101 27.6966 5.0533
Stanovisko: 4006
Cíl: 102
Měření | Hz váha | v Hz | Z váha | v Z | Délka váha | v Délky | dH váha | v dH
--|--|--|--|--|--|--|--|
1  396.09269 1 0.00010 87.36396 1 -0.00004 28.0807 1 -0.0001 5.6480 1 -0.0000
2  396.09289 1 -0.00010 87.36388 1 0.00004 28.0805 1 0.0001 5.6480 1 0.0000

Průměr: 396.09279 87.36392 28.0806 5.6480
Stanovisko: 4006
Cíl: 103
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87.09131
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Stanovisko: 4006
Clí: 7

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Průměr: 342.81418
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Stanovisko: 4006
Clí: 8

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<th>v Délky</th>
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Stanovisko: 4006
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Stanovisko: 4006
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Stanovisko: 4006
Clí: 11

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Stanovisko: 4006
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Stanovisko: 4006
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Průměr: 254.90614
69.03365
10.8834
5.7542

STATISTIKA:

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Vodorovné směry:

- Počet vyhovujících směrů: 56
- Počet podezřelých směrů: 0
- Počet chybných směrů: 0
Zenitové úhly:

***************
Počet vyhovujících zenitových úhlů : 56
Počet podezřelých zenitových úhlů   : 0
Počet chybných zenitových úhlů      : 0

Délky:

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Počet podezřelých délek             : 0
Počet chybných délek                : 0
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<td>Datum:</td>
<td>13. 4. 2015</td>
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<td>Jméno a příjmení:</td>
<td>Stanislav Fischer</td>
</tr>
<tr>
<td>Bod</td>
<td>Y (m)</td>
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**Orientace:**

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<th>Délka</th>
<th>V délky</th>
<th>V přev.</th>
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Orientační posun: 100.00038g

**Test polární metody:**

Mezní odchylky stanovené pro práci v katastru nemovitostí byly dodrženy.

**Podrobné body Polární metoda**

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<th>Z (m)</th>
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<th>Délka</th>
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Rozdíl = -6,3622

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Typ transformace: Shodnostní (3 parametry)
Rotace : 37.88796
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II.          990.7332    5004.6187
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Střední souřadnicová chyba klíče m0: 0.0002

Požadavky uživatelské tolerance "Býv. 3. třída přesnosti" byly dodrženy.
STATISTIKA:

---

Počet bodů (n) : 20
Požadovaná střední souřadnicová chyba (mxy) : 0.0010m
Mezní střední souřadnicová chyba (uxy=2.5*mxy) : 0.0025m
Koeficient konfidence : 2.5

Počet bodů s sxy v intervalu <0, mxy> : 20 (100.0%)
Počet bodů s sxy v intervalu (mxy, 2.5*mxy> : 0 (0.0%) (označeny ???)
Počet bodů s sxy v intervalu (2.5*mxy, +Nek.) : 0 (0.0%) (označeny xxx)
Maximální výběrová střední souřadnicová chyba (sxy): 0.0004m
Výběrová střední souřadnicová chyba X (sx) : 0.0001m
Výběrová střední souřadnicová chyba Y (sy) : 0.0002m
Výběrová střední souřadnicová chyba (sxy) : 0.0002m
Koeficient použitý pro výpočet výběrových chyb (k) : 2.0

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<td>Stanislav Fischer</td>
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**Referenční soubor : 4001.crd**

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**POROVNÁNÍ ZPRŮMĚRANÝCH SOUŘADNIC**

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**PRŮMĚROVÁNÍ SOUŘADNIC**

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Vatutní soubor : C:AAA\Škola\05-semestr\BakalarskaPrace\vypocet\dvoji-souradnice.crd

Výstupní soubor : C:AAA\Škola\05-semestr\BakalarskaPrace\vypocet\zprumerovano.crd

Mezní oprava souřadnic X/Y : 0.0010m

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**Upravené staničení od bodu č. 101 o -1.2628 m:**

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<th>Bod</th>
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<td>Jméno a příjmení:</td>
<td>Stanislav Fischer</td>
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ZAMĚŘENÍ JEŘÁBOVÉ DRÁHY: areál bss BÁŇSKÁ STAVEBNÍ SPOL. s r. o.
hala MIRRORGLASS s. r. o. - jeřáb 5000kg

Grafické znázornění výsledků měření a porovnání s povolenými tolerancemi dle ČSN 73 5130

zakázka: 5968e
datum: 6. 10. 2014
měřil: Ing. Lucie Radková, Ing. Josef Radek, Stanislav Fischer

SMĚROVÉ VYHODNOCENÍ
(přímost - rozchod)

rozchod 22.500 m
přístroj: LEICA TCRP1201+

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<tr>
<th>podpora - profil</th>
<th>vzdálenost [m]</th>
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<tr>
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<tr>
<td>2</td>
<td>6.0</td>
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<td>5</td>
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<td>6</td>
<td>10.0</td>
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SMĚROVÉ VYHODNOCENÍ
(přímost - rozchod)

<table>
<thead>
<tr>
<th>Levý pás [mm]</th>
<th>Pravý pás [mm]</th>
<th>Odchylka rozchodu [mm]</th>
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</thead>
<tbody>
<tr>
<td>-0.5</td>
<td>-1.5</td>
<td>-2.0</td>
</tr>
<tr>
<td>-3.8</td>
<td>-0.6</td>
<td>+4.9</td>
</tr>
<tr>
<td>+5.5</td>
<td>-0.6</td>
<td>+2.2</td>
</tr>
<tr>
<td>+2.8</td>
<td>+4.5</td>
<td>+0.6</td>
</tr>
<tr>
<td>-2.3</td>
<td>-2.6</td>
<td>-0.1</td>
</tr>
<tr>
<td>-0.1</td>
<td>+3.0</td>
<td>+0.3</td>
</tr>
<tr>
<td>-2.0</td>
<td>-0.3</td>
<td>+2.0</td>
</tr>
<tr>
<td>+3.9</td>
<td>+5.8</td>
<td></td>
</tr>
<tr>
<td>-0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+5.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-20 mm</td>
<td>-15 mm</td>
<td>-10 mm</td>
</tr>
<tr>
<td>-5 mm</td>
<td>0 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>10 mm</td>
<td>15 mm</td>
<td>20 mm</td>
</tr>
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VÝŠKOVÉ VYHODNOCENÍ

přístroj: LEICA TCRP1201+

<table>
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<th>podpora - profil</th>
<th>vzdálenost [m]</th>
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<tr>
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</tr>
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VÝŠKOVÉ VYHODNOCENÍ

<table>
<thead>
<tr>
<th>Levý pás [mm]</th>
<th>Pravý pás [mm]</th>
<th>Rozdíl L - P [mm]</th>
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<tr>
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<td>+7.1</td>
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<tr>
<td>-2.4</td>
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<tr>
<td>+8.7</td>
<td>+1.1</td>
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<td>+3.3</td>
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<td>-1.0</td>
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<td>10 mm</td>
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<td>5 mm</td>
<td>15 mm</td>
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</tr>
<tr>
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<td>20 mm</td>
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<tr>
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<tr>
<td>-20 mm</td>
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<td>5 mm</td>
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<td>10 mm</td>
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KOLMOST NÁRAZNÍKŮ

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<td>odchylky jsou uvedeny [mm]</td>
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délka jeřábové dráhy [m]

| 27.8213 |

Úchylky vyznačené červeným textem znázorňují místa překročených povolených tolerancí.
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<td>Stanislav Fischer</td>
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ZAMĚŘENÍ JEŘÁBOVÉ DRÁHY: areál bss BÁŇSKÁ STAVEBNÍ SPOL. s r. o.
hala MIRRORGLASS s. r. o. - jeřáb 5000kg

Grafické znázornění výsledků měření a porovnání s mezemi pro rektifikaci


SMĚROVÉ VYHODNOCENÍ
(přímst - rozchod)

podpora - profil  vzdálenost [m]  

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<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tr>
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<td></td>
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</tbody>
</table>

rozhod [22.500 m]
přístroj: LEICA TCRP1201+

levý pás [mm]  | 0.5  | -5.5  | -2.2  | 0.1  | -2.0  | 2.9  | 2.6  | -0.6  | 5.8  |
pravý pás [mm]  | 1.5  | -0.6  | -0.6  | -1.7  | 4.5  | -0.6  | 2.6  | -0.1  | 3.0  | 0.3  | 2.0  |
odchylka rozchodu [mm]  | -2.0  | +4.9  | +2.2  | +0.6  | +6.9  | +7.8  |

VYŠKOVÉ VYHODNOCENÍ

podpora - profil  vzdálenost [m]

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</table>

přístroj: LEICA TCRP1201+

levý pás [mm]  | +5.0  | -2.4  | +8.7  | +3.3  | -1.1  | 0.7  | +1.1  | -1.0  | +4.2  | +0.0  | +4.1  |
pravý pás [mm]  | +7.1  | +3.8  | +1.1  | -0.7  | +3.1  | +1.8  | -2.2  | -0.1  | -2.5  | +2.1  | -8.9  |
rozdíl L - P [mm]  | -2.1  | +7.6  | -4.2  | +3.5  | +6.7  | +13.0  |

KOLMOST NÁRAZNÍKŮ

odchylky jsou uvedeny [mm]

délka jeřábové dráhy [m]

Úchylky vyznačené červeným textem znázorňují místa překročených mezí pro rektifikaci.
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<td>Stanislav Fischer</td>
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## TECHNICKÁ ZPRÁVA

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<tr>
<th>Název zakázky</th>
<th>Sokolov, Chebská ulice - zaměření jeřábové dráhy</th>
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*Areál bss BÁŇSKÁ STAVEBNÍ SPOLEČNOST s r. o.*
*Hala MIRRORGLASS s. r. o. – jeřáb 5000 kg*

<table>
<thead>
<tr>
<th>Účel měření</th>
<th>kontrola geometrických parametrů jeřábové dráhy</th>
</tr>
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<tbody>
<tr>
<td>Výškový systém</td>
<td>relativní</td>
</tr>
<tr>
<td>Souřadnicový systém</td>
<td>místní</td>
</tr>
<tr>
<td>Použité měřické metody</td>
<td>prostorová polární metoda</td>
</tr>
<tr>
<td>Použité přístroje</td>
<td>totální stanice LEICA TCRP1201+ s příslušenstvím na měření jeřábových drah, laserový dálkoměr DISTO D8</td>
</tr>
<tr>
<td>Klimatické podmínky</td>
<td>uzavřená výrobní hala, měřeno bez provozu zdvihacího zařízení, teplota +19 °C</td>
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</table>

<table>
<thead>
<tr>
<th>Druh a rozsah práce</th>
<th>Zaměření jeřábové dráhy s průchozími lávkami po obou stranách. Body jsou zaměřeny v místech nad podporami a u nárazníků.</th>
</tr>
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<tbody>
<tr>
<td>Délka dráhy [m]</td>
<td>27.8213 m</td>
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<tr>
<td>Rozchod [m]</td>
<td>22.5000 m</td>
</tr>
<tr>
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<th>Ing. Lucie Radková, Ing. Josef Radek, Stanislav Fischer</th>
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<td>Stanislav Fischer</td>
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<td>Kontroloval</td>
<td>Ing. Josef Radek</td>
</tr>
</tbody>
</table>
Použité normy:

ČSN 73 5130 - Jeřábové dráhy

A.1.1 Tolerance a měření úchylek (stručný výběr)

A.1.1.2 Stanovené tolerance platí pro nové jeřábové dráhy. Jsou stanoveny pro standardní teplotu 20°C. Jsou-li za provozu tyto tolerance překročeny o 20%, musí se jeřábová dráha vyrovnat.

A.1.1.3 Tolerance rozchodu jeřábové dráhy dle
\[ \Delta s = \pm [3 + 0,25 \cdot (s - 10)] \text{mm}, \text{max. } \pm 15 \text{mm} \]
\[ \pm 6.1 \text{mm} \]

A.1.1.5 Dovolená tolerance výškové úrovně od roviny
\[ \pm 10.0 \text{mm} \]

A.1.1.6 Tolerance přímostí v bočním směru
\[ \pm 1.0 \text{mm} \]

ČSN EN 1090-2+A1 - Provádění ocelových konstrukcí

D.2.21 č.8 Umístění nárazníků \( \Delta = \pm s / 1000 \text{m}, \text{max. } \pm 10 \text{mm} \)
\[ \pm 10.0 \text{mm} \]

Z hodnocení výsledků:

Veškeré hodnoty jsou uvedeny v mm

<table>
<thead>
<tr>
<th>Pol.</th>
<th>Popis porovnávané tolerance</th>
<th>Maximálně zjištěná úchylka</th>
<th>Dovolená tolerance</th>
<th>Překročení normy</th>
<th>Mez pro rektifikaci</th>
<th>Nutnost rektifikace</th>
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<tbody>
<tr>
<td>1</td>
<td>Rozchod</td>
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<td>ano</td>
</tr>
<tr>
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<td>-8.9</td>
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<td>ne</td>
<td>±12.0</td>
<td>ne</td>
</tr>
<tr>
<td>3</td>
<td>Výšková úchylka v příčném směru</td>
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<td>±10.0</td>
<td>ano</td>
<td>±12.0</td>
<td>ano</td>
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<tr>
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<tr>
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<td>Přímost levé kolejnice</td>
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<td>±12.0</td>
<td>ne</td>
</tr>
<tr>
<td>6</td>
<td>Přímost pravé kolejnice</td>
<td>±3.0</td>
<td>±10.0</td>
<td>ne</td>
<td>±12.0</td>
<td>ne</td>
</tr>
<tr>
<td>7</td>
<td>Boční úchylka na délku 2 m</td>
<td>-3.9</td>
<td>±1.0</td>
<td>ano</td>
<td>±1.2</td>
<td>ano</td>
</tr>
<tr>
<td>8</td>
<td>Kolmost čel nárazníků</td>
<td>+35.3</td>
<td>±10.0</td>
<td>ano</td>
<td>±12.0</td>
<td>ano</td>
</tr>
</tbody>
</table>

Dovolené tolerance i mez pro rektifikaci byly u posuzované jeřábové dráhy překročeny v položkách 1, 3, 4, 7 a 8. Dráhu je nutno rektifikovat.

Datum dokončení : 15. 10. 2014

správnost potvrdil
úředně oprávněný zeměměřický inženýr