

## Protokol z merania hrúbky č. ZMV/2016/Z14/07/PR

Predmet merania: Prvky ocelevej konštrukcie Starého mosta

Metóda merania: ultrazvuková

Príprava povrchu: brúsením na kovový povrch

Väzobné médium: vazelína

Merací prístroj: STRESS TL

Miesto merania: Prešov

Dátum merania: 29.6.2016

Meranie vykonal: Ing. Martin Vitásek, PhD.

| Označenie dielca | Smer k prvku (príp. iná orientácia) | Prvok S – styčník P - pozdĺžnik | Pozícia V – vrch VB – bok vonkajší DB – vnútorný bok S - spodok | Číslo merania (HXY) | Namerané hrúbky (mm)                        |
|------------------|-------------------------------------|---------------------------------|---|---------------------|---|
| HP-S3            | S4                                  | P                               | V   | H1                  | 17,3; 17,8; 17,0; 17,4; 17,0                |
|                  |                                     |                                 | DB  | 2                   | 13,3; 14,2; 14,6; 15,2; 16,4; silná korózia |
|                  |                                     |                                 | VB  | 3                   | 16,0; 17,1; 15,0; 15,7; 18,2                |
|                  | Dunaj                               | S                               | DB  | 4                   | 18,8; 18,8; 18,7; 18,7                      |
|                  |                                     |                                 | VB  | 5                   | 20,1; 20,1; 20,2; 21,3; 21,0                |
|                  |                                     | P                               | V   | 6                   | 10,1; 10,2; 10,1                            |
|                  |                                     |                                 | DB  | 7                   | 9,3; 9,1; 8,9; 8,9; 9,0                     |
|                  |                                     |                                 | VB  | 8                   | 10,0; 10,1; 10,0; 10,1                      |
| HL-H3            | Dunaj                               | S                               | VB  | 9                   | 19,5; 19,4; 19,5                            |
|                  |                                     | S/P                             | V   | 10                  | 9,5; 9,4; 9,5; 9,5                          |
|                  |                                     | S/P                             | S   | 11                  | 9,6; 9,7; 9,7; 9,7                          |
|                  |                                     | S                               | DB  | 12                  | 19,5; 19,6; 19,4; 19,5                      |
|                  |                                     | P                               | VB  | 13                  | 9,7; 9,6; 9,6; 9,7; pokračovanie styčníka   |
|                  | H4                                  | P                               | S   | 14                  | 24,9; 24,9; 24,9; 24,9                      |
|                  |                                     |                                 | VB  | 15                  | 23,9; 24,0; 23,9; 23,9                      |
|                  |                                     |                                 | DB  | 16                  | 24,0; 24,0; 24,0                            |
|                  |                                     |                                 | V   | 17                  | 25,6; 25,0; 25,1; 25,1                      |
| HP-H3            | Dunaj                               | S                               | VB  | 18                  | 19,8; 19,9; 19,9; 19,9                      |
|                  |                                     | S/P                             | V   | 19                  | 10,0; 9,9; 9,9; 9,9                         |
|                  |                                     | S/P                             | S   | 20                  | 9,8; 9,7; 9,8; 9,7                          |
|                  |                                     | S                               | DB  | 21                  | 19,8; 19,7; 19,7; 19,8                      |
|                  |                                     | P                               | VB  | 22                  | 9,8; 9,7; 9,7; 9,7; pokračovanie styčníka   |
|                  | H4                                  | P                               | S   | 23                  | 25,4; 24,8; 25,7; 25,7; 25,7; 24,9          |
|                  |                                     |                                 | VB  | 24                  | 23,6; 23,7; 23,7; 23,6                      |
|                  |                                     |                                 | DB  | 25                  | 24,1; 24,1; 24,0; 24,0                      |
|                  |                                     |                                 | V   | 26                  | 24,8; 24,8; 25,1; 24,9                      |

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|------------------|-------------------------------------|---|---|------------------------------|---|
| HP-S4            | S3                                  | P   | V   | 27                           | 17,5; 17,4; 17,6; 17,6                      |
|                  |                                     |   | VB  | 28                           | 16,1; 16,6; 15,4; 15,2; 15,4                |
|                  |                                     |   | DB  | 29                           | 17,7; 17,6; 17,3; 17,4;                     |
|                  |                                     |   | S   | 30                           | 17,5; 17,5; 17,5                            |
|                  |                                     |   | V   | 31                           | 25,0; 25,0; (11,9R); 25,1; 25,0             |
|                  | stred dĺžky                         | P   | VB  | 32                           | 24,2; 24,6; 25,2; 24,4; 25,4                |
|                  |                                     |   | DB  | 33                           | 25,8; 25,7; 25,0; 25,0; 25,7                |
|                  |                                     |   | S   | 34                           | 24,9; 24,8; 25,1; 24,8                      |
|                  |                                     |   | V   | 35                           | 22,1; 22,3; 21,5; 22,2; 21,8 korózna jama   |
|                  | S7                                  | P   | V   | 36                           | 34,0; 33,9; 33,9                            |
|                  |                                     |   | VB  | 37                           | 24,9; 25,4; 24,9; 24,7                      |
|                  |                                     |   | DB  | 38                           | 24,9; 24,9; (4,1R); 25,6                    |
| S                |                                     |   | 39  | 35,1; 36,1; 35,2; 35,1; 35,1 |   |
| HL-S4            | S3                                  | P   | V   | 40                           | 16,1; 15,9; 15,8; 16,2; silná korózia       |
|                  |                                     |   | DB  | 41                           | 15,2; 15,4; 16,1; 16,1; silná korózia       |
|                  |                                     |   | VB  | 42                           | 17,2; 17,4; 17,5; 17,1                      |
|                  |                                     |   | S   | 43                           | 16,8; 16,9; 16,6; 16,9                      |
|                  | S7                                  | P   | V   | 44                           | 34,0; 34,5; 34,0; 33,5; 33,3; silná korózia |
|                  |                                     |   | VB  | 45                           | 24,9; 24,9; 25,1; 24,7                      |
|                  |                                     |   | DB  | 46                           | 24,5; 24,4; 24,4                            |
| S                | 47                                  | 35,6; 32,3; 35,3; 35,4; 35,2; silná korózia |   |                              |   |
| H?-H4            | H7 (pk)                             | P   | S   | 48                           | 40,5; 39,8; 40,1; 39,8; 40,0                |
|                  |                                     |   | VB/DB   | 49                           | 41,0; 41,1; 40,9                            |
|                  |                                     |   | VB/DB   | 50                           | 40,2; 39,6; 38,0; 39,5; rozdvojenie         |
|                  |                                     |   | V   | 51                           | 40,4; 40,4; 40,4                            |
|                  | H3 (ok)                             | P   | S   | 52                           | 25,5; 24,4; 24,4; 24,5                      |
|                  |                                     |   | VB/DB   | 53                           | 24,2; 23,3; 23,2                            |
|                  |                                     |   | VB/DB   | 54                           | 24,2; 24,3; 24,4; 24,3                      |
|                  |                                     |   | V   | 55                           | 24,9; 24,8                                  |
| H?-H4            | H3 (ok)                             | P   | S   | 56                           | 24,4; 24,5; 24,5; 24,5                      |
|                  |                                     |   | VB/DB   | 57                           | 23,9; 24,0; 23,8                            |
|                  |                                     |   | VB/DB   | 58                           | 25,3; 24,7; 25,3                            |
|                  |                                     |   | V   | 59                           | 24,6; 24,6; 24,6                            |
|                  | H7 (pk)                             | P   | S   | 60                           | 40,4; 40,3; 40,9                            |
|                  |                                     |   | VB/DB   | 61                           | 39,8; 39,8; 39,8                            |
|                  |                                     |   | VB/DB   | 62                           | 39,7; 39,7; 39,8; 40,4                      |
| V                | 63                                  | 40,7; 40,7; 40,6                            |   |                              |   |

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|------------------|-------------------------------------|---------------------------------|---|--------------------------|----------------------------------|--|
| HL-S5            | ?                                   | P                               | V   | 64                       | 10,5; 10,1; 9,4; 9,2; 10,0; 10,2 |  |
|                  |                                     |                                 | VB/DB   | 65                       | 9,5; 9,5; 9,5; 9,5               |  |
|                  |                                     |                                 | VB/DB   | 66                       | 9,6; 9,5; 9,5; 9,5               |  |
|                  |                                     |                                 | S   | 67                       | 9,4; 9,4; 9,5; 9,5               |  |
|                  |                                     |                                 | S   | VB/DB                    | 68                               | 18,8; 19,8; 18,5; extrémne rozdvojenie |
|                  | ?                                   | P                               | S   | 69                       | 13,9; 14,0; 13,7; 13,8           |  |
|                  |                                     |                                 | VB/DB   | 70                       | 13,3; 14,2; 14,4; 14,5           |  |
|                  |                                     |                                 | VB/DB   | 71                       | 14,3; 14,4; 14,3; 14,7           |  |
|                  |                                     |                                 | V   | 72                       | 14,6; 14,6; 14,7                 |  |
|                  |                                     |                                 | S   | 73                       | 15,2; 15,1; 15,3; 15,3; 15,1     |  |
| P                |                                     |                                 | 74  | 9,7; 9,5; 9,5; 9,6; 10,0 |                                  |  |
| HP-H5            | H6 (pk)                             | P                               | S   | 75                       | 16,5; 16,4; 17,2; 17,3           |  |
|                  |                                     |                                 | DB/VB   | 76                       | 16,4; 16,4; 16,4; 16,4           |  |
|                  |                                     |                                 | V   | 77                       | 16,2; 16,2; 16,3; 16,2           |  |
|                  |                                     |                                 | DB/VB   | 78                       | 16,4; 16,4; 16,3; 16,7           |  |
|                  |                                     | S                               | VB  | 79                       | 18,2; 18,2; 18,3; 18,3           |  |
|                  |                                     |                                 | DB  | 80                       | 18,2; 18,4; 18,3; 18,3           |  |
|                  | H2 (ok)                             | P                               | S   | 81                       | 9,8; 9,9; 9,8; 9,9               |  |
|                  |                                     |                                 | DB/VB   | 82                       | 9,8; 9,9; 9,8; 9,9               |  |
|                  |                                     |                                 | DB/VB   | 83                       | 9,9; 10,0; 9,9; 9,9              |  |
|                  |                                     |                                 | V   | 84                       | 10,0; 10,0; 9,9; 10,1            |  |
| S                | VB                                  | 85                              | 21,3; 21,4; 21,5; 22,0  |                          |                                  |  |
|                  | DB                                  | 86                              | 21,6; 21,5; 21,7  |                          |                                  |  |
| HL-H5            | H6 (pk)                             | P                               | S   | 87                       | 17,0; 16,5; 16,5; 16,4           |  |
|                  |                                     |                                 | DB/VB   | 88                       | 16,3; 16,3; 16,2; 16,4           |  |
|                  |                                     |                                 | DB/VB   | 89                       | 15,9; 15,8; 15,9                 |  |
|                  |                                     |                                 | S   | 90                       | 9,1; 9,6; 9,5; 9,6; 9,6          |  |
|                  |                                     | S                               | VB  | 91                       | 18,2; 18,2; 18,2                 |  |
|                  |                                     |                                 | DB  | 92                       | 18,2; 18,2; 18,2                 |  |
|                  | H2 (ok)                             | P                               | DB/VB   | 93                       | 9,7; 9,7; 9,8; 9,8               |  |
|                  |                                     |                                 | DB/VB   | 94                       | 9,7; 9,7; 9,8; 9,8               |  |
|                  |                                     | S                               | DB/VB   | 95                       | 21,3; 21,4; 22,1                 |  |
|                  |                                     |                                 | DB/VB   | 96                       | 21,4; 21,4; 21,5                 |  |

Poznámky:

ok originálny koniec  
pk pálený koniec

Vypracoval:

Ing. Martin Vitásek, PhD.

14.7.2016