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## PORTLAND CEMENT - WHITE CEM I 52,5 R - (EN 197-1)

CRH White | Excellence in white

|                                       |                      |        |                          |
|---------------------------------------|----------------------|--------|--------------------------|
| <u>Control Period</u>                 | July- September 2015 |        |                          |
| <u>Fineness</u>                       |                      |        |                          |
| Specific surface                      | cm <sup>2</sup> /g   | 4430   |                          |
| Residue on 0.045 mm sieve             | %                    | 3.49   |                          |
| <u>Soundness (Expansion/ Le Chat)</u> |                      |        |                          |
|                                       | mm                   | 1.55   | ≤ 10 mm                  |
| <u>Water demand</u>                   |                      |        |                          |
|                                       | %                    | 30.05  |                          |
| <u>Setting time</u>                   |                      |        |                          |
| Initial                               | Min.                 | 105    | ≥ 45 Min.                |
| Final                                 | Min.                 | 135    |                          |
| <u>Compressive strenght</u>           |                      |        |                          |
| at 2 days                             | N/mm <sup>2</sup>    | 36.0   | ≥ 20.0 N/mm <sup>2</sup> |
| at 28 days                            | N/mm <sup>2</sup>    | 61.0   | ≥ 52.5 N/mm <sup>2</sup> |
| <u>Chemical specifications</u>        |                      |        |                          |
| Insoluble residue                     | %                    | 0.45   | ≤ 5.0 %                  |
| Loss on ignition                      | %                    | 3.54   | ≤ 5.0 %                  |
| Cl <sup>-</sup>                       | %                    | < 0.1  | ≤ 0.1 %                  |
| Na <sub>2</sub> O- equivalent         | %                    | < 0.60 |                          |
| SO <sub>3</sub>                       | %                    | 2.99   | ≤ 4.0 %                  |
| Whiteness Ry:                         | %                    | 85.00  |                          |
| Specific gravity (ca.):               | kg/ dm <sup>3</sup>  | 3.10   |                          |
| Bulk density (ca.):                   | kg/ dm <sup>3</sup>  | 1.05   |                          |

Rohožník (SK), November 11<sup>th</sup>, 2015

signature Quality manager

