



Plant Hamburg

|   |                                  |                                |
|---|----------------------------------|--------------------------------|
| Hydro Aluminium Rolled Products GmbH, Aluminiumstraße, D-21129 Hamburg<br>TIBNOR OY<br>Atomitie 5A<br>FI-00370 HELSINKI | <b>Packing List No./Position</b> | 1450299748 000050              |
|   | <b>Order-No./Pos./Custo.-No.</b> | 603878/ 000050/ 109293         |
|   | <b>Customer order No.</b>        | 45943072-0710 05.03.2014       |
|   | <b>Material-No.</b>              | 85702088                       |
|   | <b>Alloy</b>                     | 5754                           |
|   | <b>Temper</b>                    | H22                            |
|   | <b>Dimensions (Th. x W x L)</b>  | 2.000 x 1,500.00 x 3,000.00 mm |

|  |                            |
|--|----------------------------|
| <b>Technical Requirements</b><br>DIN EN 485-2+ 4 , DIN EN 515 , DIN EN 573-3 | <b>Sales text</b><br>78732 |
|--|----------------------------|

**Batch Traceability**

| Origin    | Package-No. | Cast Batch No. | Checkpoint | Master ID | Weight [kg] | No. of Pieces |
|-----------|-------------|----------------|------------|-----------|-------------|---------------|
| 122506011 | 12250601    | 380856742014   | 122506011  | 7534101   | 1.001       | 43            |
| 122506012 | 12250602    | 380856742014   | 122506011  | 7534101   | 1.001       | 43            |
| 122506013 | 12250603    | 380856742014   | 122506011  | 7534101   | 1.001       | 43            |
| 122506014 | 12250604    | 380856742014   | 122506011  | 7534101   | 1.001       | 43            |
| 122506015 | 12250605    | 380856742014   | 122506011  | 7534101   | 932         | 40            |

**Inspection Results**

| Checkpoint | Results      |        |           |            |  |  |  |  |  |  |
|------------|--------------|--------|-----------|------------|--|--|--|--|--|--|
|            | Thickness mm | Rm MPa | Rp0,2 MPa | A50 (2") % |  |  |  |  |  |  |
| min.       | 1,910        | 220    | 130       | 10,0       |  |  |  |  |  |  |
| max.       | 2,000        | 270    |           |            |  |  |  |  |  |  |
| 122506011  | 1.922        | 249    | 205       | 11.5       |  |  |  |  |  |  |

**Chemical Composition (wt.%) of Batch(es)**

| Alloy:5754<br>Cast Batch No. | Si % | Fe % | Cu % | Mn % | Mn+ Cr % | Mg % | Cr % | Zn % | Ti % |  |
|------------------------------|------|------|------|------|----------|------|------|------|------|--|
| min.                         | -    | -    | -    | -    | 0.10     | 2.6  | -    | -    | -    |  |
| max.                         | 0.40 | 0.40 | 0.10 | 0.50 | 0.6      | 3.6  | 0.30 | 0.20 | 0.15 |  |
| <b>38085674 2014</b>         | 0.22 | 0.38 | 0.03 | 0.25 | 0.30     | 2.9  | 0.05 | 0.04 | 0.02 |  |

|   |  |                           |                       |
|---|--|---------------------------|-----------------------|
| QM-System accredited to ISO/TS 16949<br>ISO 9001 & ISO 14001 & EN 50001<br>We hereby certify, that the material described<br>above has been tested and complies with the<br>terms of the order contract.<br>Dimension & surface inspec. without complaints<br>This inspection certificate has been printed by<br>computer system. |  | inspection representative | A.Witz                |
|   |  | Sign                      | WAH2                  |
|   |  | Plant                     | Hamburg               |
|   |  | place of issue            | Hamburg<br>30.04.2014 |