



technical sheet

## CERTIFICATION OF

## VITRIFIED CLAY PIPE SYSTEMS

BENOR

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## TECHNICAL DATA SHEET

| QUICK CODE                                                                                                                                             | VERSION                                                                                                                                                                                 | VALIDITY                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>0015/0003</b>                                                                                                                                       | <b>6.3 - 8/02/2025</b>                                                                                                                                                                  | <b>CERTIFIED</b>                                |
| CERTIFICATE HOLDER                                                                                                                                     | PRODUCTION UNIT                                                                                                                                                                         | CERTIFICATE NUMBER                              |
| WIENERBERGER INFRA<br>Europaallee 63<br>D-50226 Frechen<br>+49 22 34 50 70<br><a href="mailto:info@steinzeug-keramo.com">info@steinzeug-keramo.com</a> | WIENERBERGER INFRA 'WERK 1'<br>Verlängerte Torgauerstrasse 1<br>D-06905 Bad Schmiedeberg<br>+49 34 92 57 50<br><a href="mailto:info@steinzeug-keramo.com">info@steinzeug-keramo.com</a> | BENOR<br>0015/95<br>Vitrified clay pipe systems |

## PRODUCT

| OFFICIAL NAME                     | COMMERCIAL NAME                 |
|-----------------------------------|---------------------------------|
| <b>PIPES, FITTINGS AND JOINTS</b> | <b>VITRIFIED CLAY JUNCTIONS</b> |

## CAPTION ON THE PRODUCT

BENOR  
Production date  
Production unit  
EN 295-1  
PTV 895-1  
Nominal size (DN...)  
Joint system  
Crushing strength FN in kN/m  
Angle

## APPLICATION

- |                                                                  |                                                     |                                                     |
|------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| <input checked="" type="checkbox"/> CCT/TB 2015                  | <input checked="" type="checkbox"/> PTV 895-1 (3.0) | <input checked="" type="checkbox"/> EN 295-1 (2013) |
| <input checked="" type="checkbox"/> CCT Qualiroutes (2017)       |                                                     |                                                     |
| <input checked="" type="checkbox"/> SB 250 - versie 4.1          |                                                     |                                                     |
| <input checked="" type="checkbox"/> CCT Qualiroutes (2021)       |                                                     |                                                     |
| <input checked="" type="checkbox"/> SB 250 - versie 4.1 + errata |                                                     |                                                     |

This product was not checked according to the crossed-out reference documents or does not comply with them.

Use: Drains and sewers.

## EXPLANATIONS (THIS DOES NOT COME UNDER SUPERVISION IN THE CONTEXT OF BENOR CERTIFICATION)

ATTENTION POINTS - TO BE CHECKED BY CUSTOMER (NOT LIMITED)

- \* Is there a delivery note for each delivery?
- \* Is there reference to the technical data sheet on the delivery document?
- \* Does the technical data sheet code mentioned on the delivery note correspond with the code mentioned on the product?
- \* Does the product meet the requirements from the tender?

## FORM OF DELIVERY

## EXTRA INFORMATION

- \* In case vulcanized rubber sealing elements are supplied as separate components, they should be marked with reference to PTV 8681-1 and the classification for high chemical resistance.
- \* Coupling materials such as polypropylene sleeve couplings should be marked with reference to PTV 895-1.
- \* The KeraMat Lubricant shall be used for all vitrified clay joint systems.
- \* The conformity of the rubber components according to PTV 895-1 and EN 681-1 is demonstrated by an equivalence procedure, which is part of the BENOR certification of the vitrified clay product.

## Contact at

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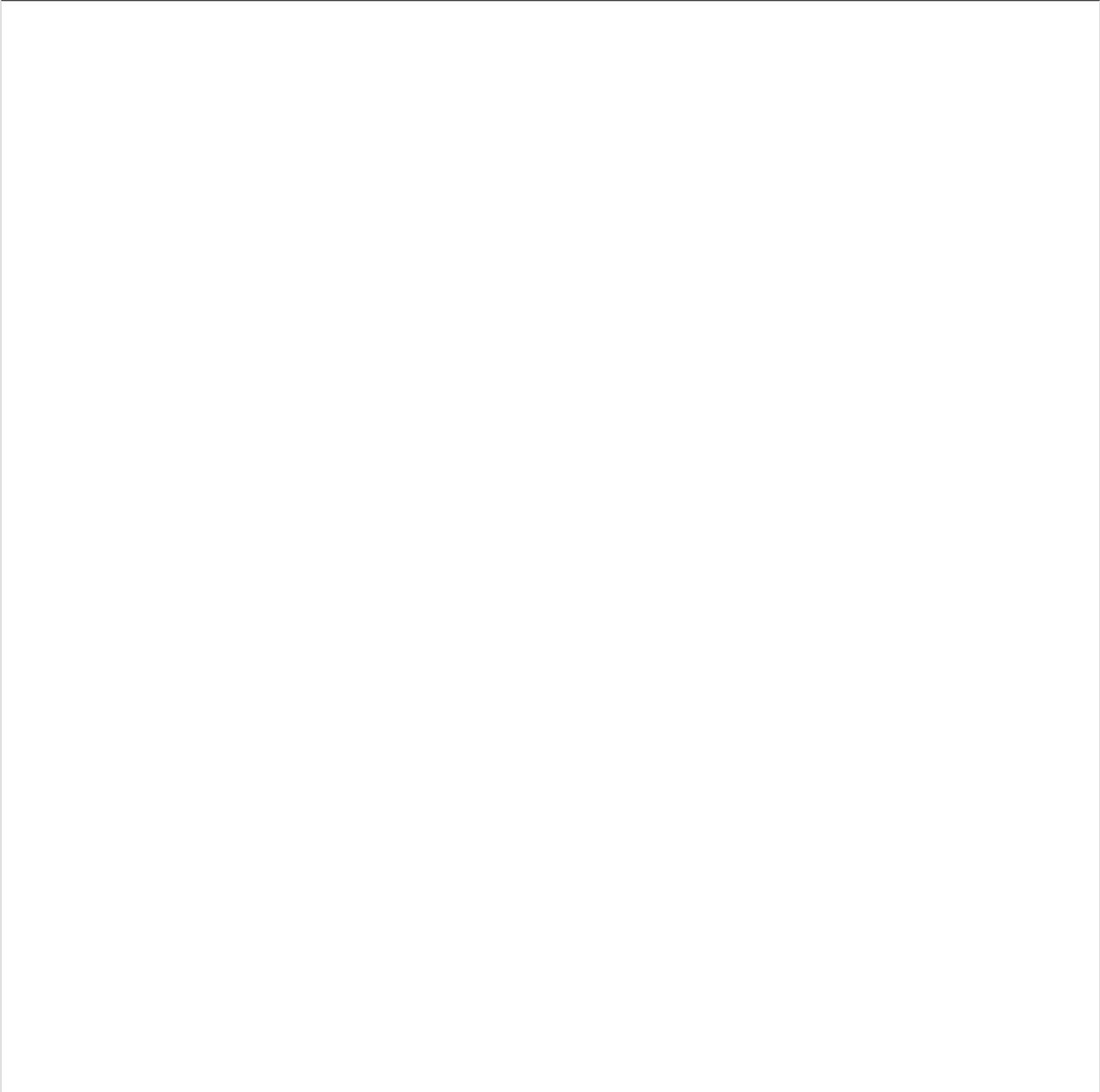
## PRODUCT CHARACTERISTICS

| GENERAL REQUIREMENTS                               | ACCORDING                | UNIT  | VALUE       | MIN | MAX  |
|----------------------------------------------------|--------------------------|-------|-------------|-----|------|
| Water absorption                                   | PTV 895-1, Clause 3.4.2  | %     | -           | -   | 6    |
| Appearance                                         | PTV 895-1, Clause 3.4.3  |       | Glazed      | -   | -    |
| DIMENSIONAL REQUIREMENTS                           | ACCORDING                | UNIT  | VALUE       | MIN | MAX  |
| Internal diameter (*)                              | PTV 895-1, Clause 3.4.4  | mm    | See drawing | -   | -    |
| Length (*)                                         | PTV 895-1, Clause 3.4.5  | m     | See drawing | -   | -    |
| Squareness of ends (*)                             | PTV 895-1, Clause 3.4.6  | mm    | See drawing | -   | -    |
| Branch angle of junctions (*)                      | PTV 895-1, Clause 3.4.10 | °     | See drawing | -   | -    |
| OTHER REQUIREMENTS                                 | ACCORDING                | UNIT  | VALUE       | MIN | MAX  |
| Watertightness of pipes and junctions (*)          | PTV 895-1, Clause 3.4.16 |       | Pass        | -   | -    |
| Chemical resistance (*)                            | PTV 895-1, Clause 3.4.17 | %     | -           | -   | 0,15 |
| Abrasion resistance                                | PTV 895-1, Clause 3.4.19 | Class | AH/AN       | -   | 0,25 |
| Airtightness (*)                                   | PTV 895-1, Clause 3.4.20 |       | Pass        | -   | -    |
| Resistance against high pressure water jetting (*) | PTV 895-1, Clause 3.4.22 |       | Pass        | -   | -    |
| REQUIREMENTS FOR JOINT ASSEMBLIES                  | ACCORDING                | UNIT  | VALUE       | MIN | MAX  |
| Watertightness of joint assemblies (*)             | PTV 895-1, Clause 3.5.2  |       | -           | -   | -    |
| <i>Under deflection</i>                            |                          | mm    | see drawing | -   | -    |
| <i>Under shear load</i>                            |                          |       | Pass        | -   | -    |

|                                                     |  |                         |       |             |   |   |
|-----------------------------------------------------|--|-------------------------|-------|-------------|---|---|
| Increased watertightness of jointed pipes at 1 bar  |  | PTV 895-1, Clause 3.5.3 |       | Pass        | - | - |
| Continuity of invert in joint assemblies (*)        |  | PTV 895-1, Clause 3.5.4 |       | See drawing | - | - |
| Joint interchangeability of pipes and fittings (*)  |  | PTV 895-1, Clause 3.5.5 |       | -           | - | - |
| Jointing system                                     |  |                         | Class | See drawing | - | - |
| Chemical and physical resistance to effluent (*)    |  | PTV 895-1, Clause 3.5.6 | Class | CH          | - | - |
| Thermal cycling stability of joint assemblies (*)   |  | PTV 895-1, Clause 3.5.7 |       | Pass        | - | - |
| Long-term thermal stability of joint assemblies (*) |  | PTV 895-1, Clause 3.5.8 |       | Pass        | - | - |
| Airtightness of jointed pipes                       |  | PTV 895-1, Clause 3.5.9 |       | Pass        | - | - |

(\*) These product characteristics are a statement by the producer taken from its declaration of performance. The certificate holder declares that the values listed are in accordance with its declaration of performance.

TECHNICAL DRAWING



| Nominale diameter |         | Verbindings-systeem  | DN 1                                        |                   |                                             |          | DN 2                                            |             |                                             |                         | Lengte                                          | Haaksheid uiteinden | Bodemgelijkheid                          | Sterkte-klasse | Hoek-verdraaiing   |      |         |   |    |  |        |
|-------------------|---------|----------------------|---------------------------------------------|-------------------|---------------------------------------------|----------|-------------------------------------------------|-------------|---------------------------------------------|-------------------------|-------------------------------------------------|---------------------|------------------------------------------|----------------|--------------------|------|---------|---|----|--|--------|
|                   |         |                      | Maten                                       |                   |                                             |          | Hoek van aftakking en maten                     |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| Nominal size      |         | Joint system         | Dimensions                                  |                   |                                             |          | Branch angle of junctions and dimensions        |             |                                             |                         | Length                                          | Squareness of ends  | Continuity of invert in joint assemblies | Strength class | Angular deflection |      |         |   |    |  |        |
|                   |         |                      | Dimension                                   |                   |                                             |          | Angle des branchements et dimension             |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| Diamètre nominal  |         | Système d'assemblage | binnenkant buis inner pipe intérieur tuyaux |                   | buitenkant buis outer pipe extérieur tuyaux | e min mm | binnenkant mof inner socket intérieur du collet |             | binnenkant buis inner pipe intérieur tuyaux | a max 45° ± 5° 90° ± 5° | binnenkant mof inner socket intérieur du collet | l <sub>1</sub> cm   | mm                                       | mm             |                    | mm/m |         |   |    |  |        |
| DN 1              | DN 2    |                      | d <sub>1</sub> mm                           | d <sub>3</sub> mm | d <sub>4</sub> mm                           |          | d <sub>1</sub> mm                               | 45° ± 5° mm | 90° ± 5° mm                                 | d <sub>4</sub> mm       |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100     | FF                   | 100 ± 4                                     | 131 ± 1.5         | 70                                          |          | 100 ± 4                                         | 240         | -                                           | 40                      |                                                 |                     |                                          | 34/34          |                    |      |         |   |    |  |        |
| 125               | 100     |                      | 126 ± 4                                     | 159 ± 2           |                                             |          | 100 ± 4                                         | -           |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 125     |                      | 151 ± 5                                     | 186 ± 2           |                                             |          | 75                                              | 126 ± 4     | 260                                         |                         |                                                 |                     |                                          |                |                    |      | 160     |   |    |  |        |
| 150               | 100     |                      |                                             |                   |                                             |          |                                                 | 100 ± 4     | 240                                         |                         |                                                 |                     |                                          |                |                    |      | -       |   |    |  |        |
| 125               | 125     |                      |                                             |                   |                                             |          |                                                 | 126 ± 4     | 260                                         |                         |                                                 |                     |                                          |                |                    |      | -       |   |    |  |        |
| 150               | 150     |                      |                                             |                   |                                             |          |                                                 | 151 ± 5     | 270                                         |                         |                                                 |                     |                                          |                |                    |      | 160     |   |    |  |        |
| 200               | 100     |                      |                                             |                   |                                             |          |                                                 | 100 ± 4     | 250                                         |                         |                                                 |                     |                                          |                |                    |      | -       | - | 50 |  | 200/34 |
|                   | 125     |                      |                                             |                   |                                             |          |                                                 | 126 ± 4     | 300                                         |                         |                                                 |                     |                                          |                |                    |      | -       |   |    |  |        |
|                   | 150     |                      | 151 ± 5                                     | 305               |                                             |          | 170                                             |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
|                   | 200     |                      | 200 ± 5                                     | 350               |                                             |          | 180                                             |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
|                   | 100     |                      | 100 ± 4                                     | 250               |                                             |          | -                                               | 50          |                                             |                         |                                                 |                     |                                          |                |                    |      | 200/200 |   |    |  |        |
|                   | 125     |                      | 126 ± 4                                     | 300               |                                             |          | -                                               |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 200/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 200/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
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| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
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| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
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| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
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| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 160/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 240/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           |                   |                                             |          | 50                                              |             | 240/200                                     |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 125               | 126 ± 4 | 300                  | -                                           |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 150               | 151 ± 5 | 305                  | 170                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 200               | 200 ± 5 | 350                  | 180                                         |                   |                                             |          |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |
| 100               | 100 ± 4 | 250                  | -                                           | 50                |                                             | 160/34   |                                                 |             |                                             |                         |                                                 |                     |                                          |                |                    |      |         |   |    |  |        |

## ATTESTATION

The BENOR certification of the product states that there is, on the basis of a periodic external supervision, a sufficient degree of confidence that the certificate holder is in a position to continuously guarantee the conformity of the product as specified in the reference documents and TRA 95 BENOR (3.0).

This datasheet contains the performance characteristics specified by the manufacturer. The datasheet is verified by the certification body.

The certificate holder declares that the product supplier/delivered by it conforms to the datasheet as set out on the delivery note.

By making it available digitally, the producer declares that he agrees with this sheet

**Name:** René van Veldhoven

**Date:** 22/01/2024

## COPRO

**Name:** Koen Van Daele

**Date:** 22/01/2024

**Signature:**



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