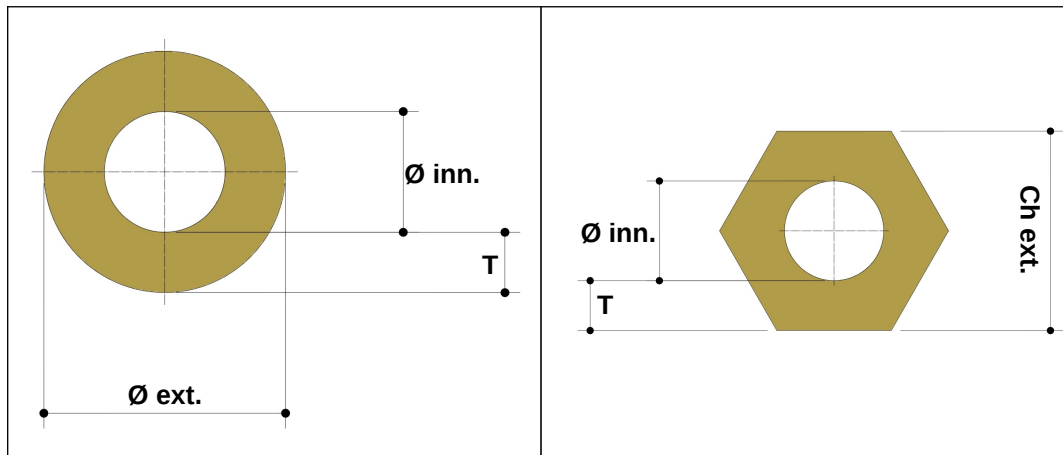




## Feasibility

| Type                    | Round hollow rod                                                             | Hexagonal hollow rod | Modeled hollow rod                     |
|-------------------------|------------------------------------------------------------------------------|----------------------|----------------------------------------|
| Ø ext and/or Ch ext max | 140                                                                          | 80                   | Upon customer request and to be agreed |
| Ø ext and/or Ch ext min | 13                                                                           | 13                   |                                        |
| Ø inn max               | 120                                                                          | 72                   |                                        |
| Ø inn min               | 8                                                                            | 8                    |                                        |
| Thickness               | Depending on the external diameter or key (minimum feasible equal to 2.5 mm) |                      |                                        |

Rod maximum weight 60 kg/m

## Lengths (standard production da 2800 mm a 3200 mm)

| Minimum (mm) | Maximum (mm) | Notes                                               |
|--------------|--------------|-----------------------------------------------------|
| 2700 *       | 4000 ± 25    | Fixed lengths feasible for rods with Ø up to 100 mm |

\* For fixed lengths 2750 ± 25 mm

Different lengths are available upon specific customer request

## Ø tolerances or external cross-section

| Over (mm) | Up to (mm) | Tolerance (mm) | Reference EN12168:24 |
|-----------|------------|----------------|----------------------|
| 13        | 18         | +0 / -0,11     | C                    |
| 18        | 30         | +0 / -0,13     | C                    |
| 30        | 50         | +0 / -0,16     | C                    |
| 50        | 80         | +0 / -0,30     | C                    |
| 80        | 100        | +0,20 / -0,50  |                      |
| 100       | 140        | ± 0,50         |                      |

## Inner Ø tolerances

| Over (mm)   | Up to (mm)  | Tolerance (mm) | Reference EN12168:24 |
|-------------|-------------|----------------|----------------------|
| 8 included  | 13 excluded | +0 / -1,0      |                      |
| 13 included | 15          | ± 0,14 *       | B                    |
|             |             | +0 / -1,0      |                      |
| 15          | 18          | ± 0,14         | B                    |
|             |             | +0 / -1,5 **   |                      |
| 18          | 30          | ± 0,17         | B                    |
|             |             | +0 / -1,5 **   |                      |
| 30          | 50          | ± 0,20         | B                    |
|             |             | +0 / -1,5 **   |                      |
| 50          | 70          | ± 0,37         | B                    |
|             |             | +0 / -1,5 **   |                      |
| 70          | 120         | +0 / -1,5      |                      |

\* Alloys CW511L - CW602N - CW625N - CW626N

\*\* For Ø or external cross-section greater than 60

## Eccentricity

| Thickness |            | Tolerance (%) | Reference EN12168:24 |
|-----------|------------|---------------|----------------------|
| Over (mm) | Up to (mm) |               |                      |
| 2,5       | 3          | 10            | Table 12             |
| 3         |            | 8             | Table 12             |

$$E = \frac{T \max - T \min}{T \max + T \min} \times 100$$

## Straightness

| Type          | Over (mm)   | Up to (mm) | Tolerance (mm) | Reference EN12168:24 |
|---------------|-------------|------------|----------------|----------------------|
| Round rod     | 13 included | 50         | 1,5 x L        | Table 13             |
| Hexagonal rod | 13 included | 50         | 2 x L          | Table 13             |

L = rod length in m

## Packaging

The material is packaged in bundles of ~ 1000 kg (variable depending on the weight per linear metre), tied with straps. Any different requests to be agreed.