

## DOP-DW6-022

### 1. Unique identification code of the product-type:

Multi Wall Metal System Chimney  
EN 1856-1:2009

### 2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

#### DINAK DW6

|                         |           |                          |
|-------------------------|-----------|--------------------------|
| 1.0 Model 1.4404 / 316L | Ø 80-300  | T600 N1 D V3 L50060 G60  |
| 1.0 Model 1.4404 / 316L | Ø 350-450 | T600 N1 D V3 L50060 G90  |
| 1.0 Model 1.4404 / 316L | Ø 500-600 | T600 N1 D V3 L50060 G120 |
| 1.1 Model 1.4404 / 316L | Ø 80-300  | T450 N1 D V3 L50060 G60  |
| 1.1 Model 1.4404 / 316L | Ø 350-450 | T450 N1 D V3 L50060 G90  |
| 1.1 Model 1.4404 / 316L | Ø 500-600 | T450 N1 D V3 L50060 G120 |
| 1.2 Model 1.4404 / 316L | Ø 80-300  | T200 P1 W V2 L50060 O00  |

### 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Convey the products of combustion from heating appliances to the outside atmosphere

### 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

DINAK S.A.  
Camiño do Laranxo, 19  
36216, Vigo (SPAIN)  
dinak@dinak.com  
tlf: +34 986 452 526

### 5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not applicable

### 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 2+  
System 4 (for terminals)

7. Notified factory production control certification body TÜV SÜD Industrie Service GmbH, No.0036, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control

### 8. Declared performance

| Essential Characteristics                                       | Performance   | Harmonized technical specification |
|---|---|------------------------------------|
| Compressive strength<br>Chimney Sections, fittings and supports | Up to 19 m (See annex)<br>See annex   | EN 1856-1:2009                     |
| Resistance to fire  | Models 1.0 and 2.0:<br>Ø80-300: T600 – G60<br>Ø350-450: T600 – G90<br>Ø500-600: T600 – G120 | EN 1856-1:2009                     |

## DOP-DW6-022

|   |   |                |
|---|---|----------------|
|   | Model 1.2 :<br>T200 – O00   |                |
| <b>Gas tightness/leakage</b>  | Model 1.0 and 1.1 : N1<br>Model 1.2: P1   | EN 1856-1:2009 |
| <b>Flow resistance of chimney sections, fittings and terminals</b>                                | According to EN 13384-1   | EN 1856-1:2009 |
| <b>Thermal resistance</b>   | Ø80-300: 0.288 - 0.351 m <sup>2</sup> K/W tested at 200°C<br>Ø350-600: 0.442 - 0.459 m <sup>2</sup> K/W tested at 200°C       | EN 1856-1:2009 |
| <b>Thermal shock resistance</b><br>Soot fire resistance   | Models 1.0 and 2.0: Yes<br>Model 1.2: No  | EN 1856-1:2009 |
| Thermal performance under normal operating conditions   | Model 1.0: T600<br>Model 1.1: T450<br>Model 1.1: T200   |                |
| <b>Flexural tensile strength (only for means of connection for chimney sections and fittings)</b> | Up to 61 m ( see annex)   | EN 1856-1:2009 |
| <b>Non vertical installation</b>  | Maximum offset between supports: 3 m at 90°<br>(see annex)  | EN 1856-1:2009 |
| <b>Components subject to wind load</b>  | Maximum free standing height: 3 m above last support (see annex)<br>Maximum spacing between lateral supports: 4 m (see annex) | EN 1856-1:2009 |
| <b>Durability</b><br>Water and vapour diffusion resistance  | Models 1.0, 1.1 and 1.2: Yes  | EN 1856-1:2009 |
| Condensate penetration resistance   | Models 1.0 and 1.1: No<br>Model 1.2: Yes  |                |
| Against corrosion   | Models 1.0 and 1.1: V3<br>Model 1.2: V2   |                |
| <b>Freeze thaw resistance</b>   | Yes   | EN 1856-1:2009 |

**9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.**

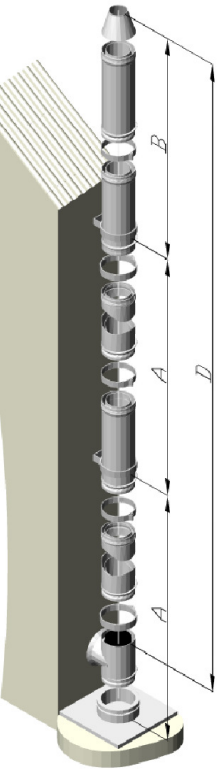
**This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**

**Signed for and on behalf of the manufacturer by:**

Íñigo A. Canoa (General Manager)

Vigo, 6<sup>th</sup> June 2013

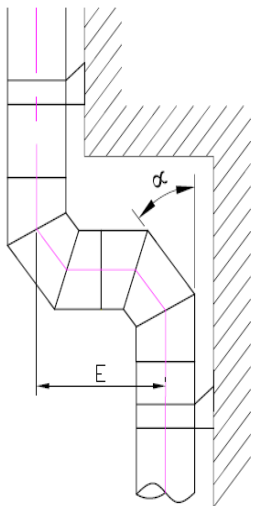
## DOP-DW6-022



| DINAK DW6      |   |                  |        |   |                  |        |       |
|----------------|---|------------------|--------|---|------------------|--------|-------|
| Outer material | COMPRESSION STRENGTH*   |                  |        | TENSILE STRENGTH  |                  |        |       |
|                | Height – Size D (m)   |                  |        | Height (m)  |                  |        |       |
|                | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441<br>1.4075 / 430 | Galvanized steel | Copper | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441<br>1.4075 / 430 | Galvanized steel | Copper |       |
| ND (mm)        | 80  | 19               | 19     | 13  | 61               | 61     | PND** |
|                | 100   | 16               | 16     | 11  | 52               | 52     | PND   |
|                | 130   | 13               | 13     | 9   | 42               | 42     | PND   |
|                | 150   | 12               | 12     | 8   | 38               | 38     | PND   |
|                | 160   | 11               | 11     | 8   | 36               | 36     | PND   |
|                | 180   | 10               | 10     | 7   | 32               | 32     | PND   |
|                | 200   | 9                | 9      | 6   | 30               | 30     | PND   |
|                | 250   | 7                | 7      | 5   | 24               | 24     | PND   |
|                | 300   | 6                | 6      | 4   | 21               | 21     | PND   |
|                | 350   | 6                | 6      | 6   | 15               | 15     | PND   |
|                | 400   | 5                | 5      | 5   | 13               | 13     | PND   |
|                | 450   | 5                | 5      | 5   | 12               | 12     | PND   |
|                | 500   | 4                | 4      | 4   | 11               | 11     | PND   |
|                | 550   | 4                | 4      | 4   | 10               | 10     | PND   |
|                | 600   | 3                | 3      | 4   | 9                | 9      | PND   |

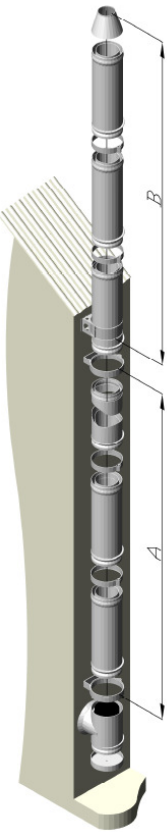
\* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee

\*\* NPD: No performance determined



| NON VERTICAL INSTALLATION |   |                  |        |   |                  |        |   |
|---------------------------|---|------------------|--------|---|------------------|--------|---|
| Outer material            | MAX. DEFLECTION $\alpha$ (°)  |                  |        | MAX. LENGTH OF THE SLOPE – Size E (m)   |                  |        |   |
|                           | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441<br>1.4075 / 430 | Galvanized steel | Copper | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441<br>1.4075 / 430 | Galvanized steel | Copper |   |
|                           | ND (mm)   | 80               | 90     | 90  | 90               | 3      | 3 |
| 100                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 130                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 150                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 160                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 180                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 200                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 250                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 300                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 350                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 400                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 450                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 500                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 550                       |   | 90               | 90     | 90  | 3                | 3      | 1 |
| 600                       |   | 90               | 90     | 90  | 3                | 3      | 1 |

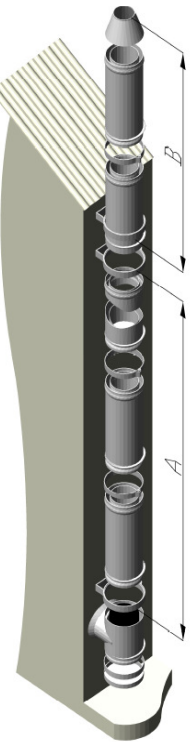
## DOP-DW6-022



**DINAK DW6**  
**WIND LOAD RESISTANCE**

**CONFIGURATION 1: WALL SUPPORTS 080 / SELF-STANDING SUPPORT 861**

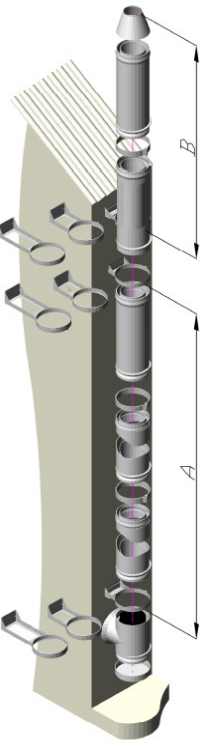
|         | Max number of straight elements (020) between supports (Size A) |   |                                  | Max. Length from last support. (m) (Size B) |   |                                  |        |
|---------|---|---|----------------------------------|---|---|----------------------------------|--------|
|         | Outer material  | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper                                      | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper |
| ND (mm) | 80  |   |                                  |   |   |                                  |        |
|         | 100   |   |                                  |   |   |                                  |        |
|         | 130   | 4   |                                  |   | 2,5   |                                  |        |
|         | 150   | 4   |                                  |   | 2,5   |                                  |        |
|         | 160   | 4   |                                  |   | 2,5   |                                  |        |
|         | 180   | 4   |                                  |   | 2,5   |                                  |        |
|         | 200   | 4   |                                  |   | 2,5   |                                  |        |
|         | 250   | 4   |                                  |   | 2,5   |                                  |        |
|         | 300   | 4   |                                  |   | 2,5   |                                  |        |
|         | 350   | 4   |                                  |   | 2,5   |                                  |        |
|         | 400   | 4   |                                  |   | 2,5   |                                  |        |
|         | 450   | 4   |                                  |   | 2,5   |                                  |        |
|         | 500   | 4   |                                  |   | 2,5   |                                  |        |
|         | 550   | 4   |                                  |   | 2,5   |                                  |        |
| 600     | 4   |   |                                  | 2,5   |   |                                  |        |



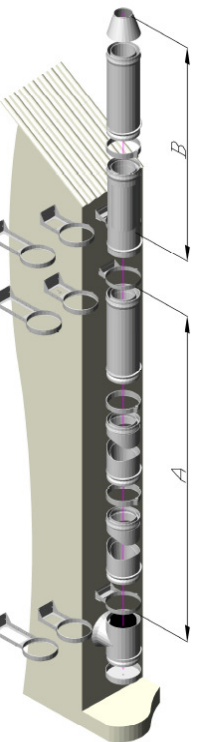
**CONFIGURATION 2: WALL SUPPORTS 080 / FLAT WALL SUPPORT 086**

|         | Max number of straight elements (020) between supports (Size A) |   |                                  | Max. Length from last support. (m) (Size B) |   |                                  |        |
|---------|---|---|----------------------------------|---|---|----------------------------------|--------|
|         | Outer material  | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper                                      | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper |
| ND (mm) | 80  | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 100   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 130   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 150   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 160   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 180   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 200   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 250   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 300   | 4   |                                  | 3   | 2,4   |                                  | 1,5    |
|         | 350   | 4   |                                  | 3   | 1,5   |                                  | 1,5    |
|         | 400   | 4   |                                  | 3   | 1,5   |                                  | 1,5    |
|         | 450   | 4   |                                  | 3   | 1,5   |                                  | 1,5    |
|         | 500   | 4   |                                  | 3   | 1,5   |                                  | 1,5    |
|         | 550   | 4   |                                  | 3   | 1,5   |                                  | 1,5    |
| 600     | 4   |   | 3                                | 1,5   |   | 1,5                              |        |

## DOP-DW6-022

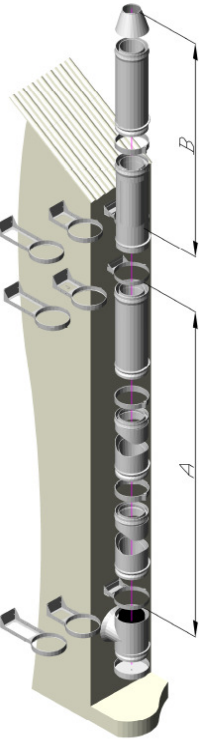


| <b>CONFIGURATION 3: ADJUSTABLE WALL SUPPORTS 083 / FLAT ADJ. WALL SUPPORTS 831</b> |  |                                  |        |  |                                  |        |
|--|--|----------------------------------|--------|--|----------------------------------|--------|
| <b>Distance to wall (083/831) : 70-120 mm</b>                                      |  |                                  |        |  |                                  |        |
|  | <b>Max number of straight elements (020) between supports (Size A)</b> |                                  |        | <b>Max. Length from last support. (m) (Size B)</b>           |                                  |        |
| <b>Outer material</b>  | 1.4301 /304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441           | Galvanized steel<br>1.4075 / 430 | Copper | 1.4301 /304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper |
| 80   | 3  | X                                | 2      | 1,5  | X                                | 1,5    |
| 100  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 130  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 150  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 160  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 180  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 200  | 3  |                                  | 2      | 1,5  |                                  | 1,5    |
| 250  | X  |                                  | X      | X  |                                  | X      |
| 300  |  |                                  |        |  |                                  |        |
| 350  |  |                                  |        |  |                                  |        |
| 400  |  |                                  |        |  |                                  |        |
| 450  |  |                                  |        |  |                                  |        |
| 500  |  |                                  |        |  |                                  |        |
| 550  |  |                                  |        |  |                                  |        |
| 600  |  |                                  |        |  |                                  |        |



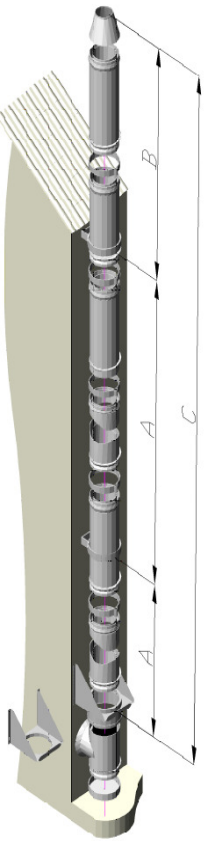
| <b>CONFIGURATION 4: SHORT CUTTABLE WALL SUPPORTS 835 / FLAT SHORT CUTTABLE WALL SUPPORTS 836</b> |  |                                  |        |  |                                  |        |
|--|--|----------------------------------|--------|--|----------------------------------|--------|
| <b>Distance to wall (835/836) : 100-250 mm</b>   |  |                                  |        |  |                                  |        |
|  | <b>Max number of straight elements (020) between supports (Size A)</b> |                                  |        | <b>Max. Length from last support. (m) (Size B)</b>           |                                  |        |
| <b>Outer material</b>  | 1.4301 /304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441           | Galvanized steel<br>1.4075 / 430 | Copper | 1.4301 /304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper |
| 80   | 3  | X                                | X      | 1,5  | X                                | X      |
| 100  | 3  |                                  |        | 1,5  |                                  |        |
| 130  | 3  |                                  |        | 1,5  |                                  |        |
| 150  | 3  |                                  |        | 1,5  |                                  |        |
| 160  | 3  |                                  |        | 1,5  |                                  |        |
| 180  | 3  |                                  |        | 1,5  |                                  |        |
| 200  | 3  |                                  |        | 1,5  |                                  |        |
| 250  | 3  |                                  |        | 1,5  |                                  |        |
| 300  | 3  |                                  |        | 1,5  |                                  |        |
| 350  | 3  |                                  |        | 1,5  |                                  |        |
| 400  | 3  |                                  |        | 1,5  |                                  |        |
| 450  | 3  |                                  |        | 1,5  |                                  |        |
| 500  | 3  |                                  |        | 1,5  |                                  |        |
| 550  | 3  |                                  |        | 1,5  |                                  |        |
| 600  | 3  |                                  |        | 1,5  |                                  |        |

**DOP-DW6-022**



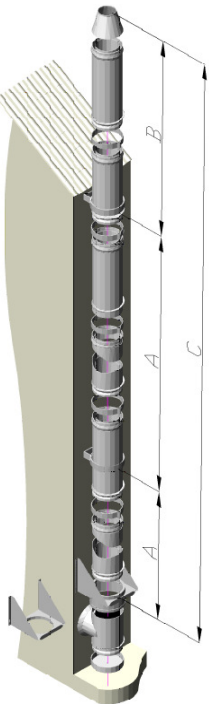
| CONFIGURATION 5: LONG CUTTABLE WALL SUPPORTS 845 / FLAT LONG CUTTABLE WALL SUPPORTS 846 |   |                                  |        |   |                                  |        |
|---|---|----------------------------------|--------|---|----------------------------------|--------|
| Distance to wall (845/846) : 250-430 mm   |   |                                  |        |   |                                  |        |
| Max number of straight elements (020) between supports (Size A)                         |   |                                  |        | Max. Length from last support. (m) (Size B)                   |                                  |        |
| Outer material  | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper | 1.4301 / 304<br>1.4404 / 316L<br>1.4521 / 444<br>1.4509 / 441 | Galvanized steel<br>1.4075 / 430 | Copper |
| ND (mm)   |   |                                  |        |   |                                  |        |
| 80  | 2   |                                  |        | 1,5   |                                  |        |
| 100   | 2   |                                  |        | 1,5   |                                  |        |
| 130   | 2   |                                  |        | 1,5   |                                  |        |
| 150   | 2   |                                  |        | 1,5   |                                  |        |
| 160   | 2   |                                  |        | 1,5   |                                  |        |
| 180   | 2   |                                  |        | 1,5   |                                  |        |
| 200   | 2   |                                  |        | 1,5   |                                  |        |
| 250   | 2   |                                  |        | 1,5   |                                  |        |
| 300   | 2   |                                  |        | 1,5   |                                  |        |
| 350   | 2   |                                  |        | 1,5   |                                  |        |
| 400   | 2   |                                  |        | 1,5   |                                  |        |
| 450   | 2   |                                  |        | 1,5   |                                  |        |
| 500   | 2   |                                  |        | 1,5   |                                  |        |
| 550   | 2   |                                  |        | 1,5   |                                  |        |
| 600   | 2   |                                  |        | 1,5   |                                  |        |

## DOP-DW6-022



| DINAK DW6                           |  |   |                               |                  |                             |                         |
|-------------------------------------|--|---|-------------------------------|------------------|-----------------------------|-------------------------|
| COMPRESSIVE STRENGTH OF THE SUPPORT |  |   |                               |                  |                             |                         |
| MAX. LOAD (m)                       |  |   |                               |                  |                             |                         |
| Outer material                      | 1.4301 / 304 ; 1.4404 / 316L<br>1.4521 / 444; 1.4509 / 441<br>1.4075 / 430; Galvanized steel |   |                               |                  |                             |                         |
| Model                               | Adjustable base support closed 085/853 Size (C)  | Adjustable base support extended 085/853 Size (C) | Adjustable floor support 856* | Roof support 082 | Roof support 082 Galvanized | Joist floor support 903 |
| 80                                  | 77   | 41  | 40                            | 31               | 23                          | 37                      |
| 100                                 | 65   | 35  | 34                            | 27               | 19                          | 32                      |
| 130                                 | 53   | 28  | 28                            | 22               | 15                          | 26                      |
| 150                                 | 47   | 25  | 24                            | 19               | 14                          | 23                      |
| 160                                 | 45   | 24  | 23                            | 18               | 13                          | 22                      |
| 180                                 | 41   | 22  | 21                            | 16               | 12                          | 20                      |
| 200                                 | 37   | 20  | 19                            | 15               | 11                          | 18                      |
| 250                                 | 30   | 16  | 16                            | 12               | 9                           | 15                      |
| 300                                 | 26   | 14  | 13                            | 10               | 7                           | 12                      |
| 350                                 | 23   | 16  | 15                            | X                | X                           | X                       |
| 400                                 | 21   | 14  | 14                            |                  |                             |                         |
| 450                                 | 19   | 13  | 12                            |                  |                             |                         |
| 500                                 | 17   | 11  | 11                            |                  |                             |                         |
| 550                                 | 15   | 10  | 10                            |                  |                             |                         |
| 600                                 | 14   | 10  | 9                             |                  |                             |                         |

\*Please check maximum load in the compressive strength table, in case of installing a Tee section on top of our floor support



| MAX. LOAD (m)  |   |   |                               |
|----------------|---|---|-------------------------------|
| Outer material | Copper  |   |                               |
| Model          | Adjustable base support closed 085/853 Size (C) | Adjustable base support extended 085/853 Size (C) | Adjustable floor support 856* |
| 80             | 67  | 36  | 35                            |
| 100            | 57  | 31  | 30                            |
| 130            | 47  | 25  | 24                            |
| 150            | 42  | 22  | 22                            |
| 160            | 40  | 21  | 21                            |
| 180            | 36  | 19  | 19                            |
| 200            | 33  | 17  | 17                            |
| 250            | 27  | 14  | 14                            |
| 300            | 23  | 12  | 12                            |
| 350            | 22  | 15  | 15                            |
| 400            | 20  | 14  | 13                            |
| 450            | 18  | 12  | 12                            |
| 500            | 16  | 11  | 11                            |
| 550            | 15  | 10  | 10                            |
| 600            | 14  | 9   | 9                             |

\*Please check maximum load in the compressive strength table, in case of installing a Tee section on top of our floor support