

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGulares



MCR FID-C



MCR FID-P

### COMPUERTAS CORTAFUEGO

Las Compuertas Cortafuego MERCOR han sido especialmente diseñadas para compartimentar conductos que pasan por diferentes sectores de incendio tal como exigen las normativas vigentes en materia de protección contra incendios en edificios. Además, las Compuertas mcr FID poseen el marcado CE en cumplimiento del reglamento 305/2011/EU.

### APLICACIÓN

- Las compuertas rectangulares mcr FID-C y mcr FID-P han sido diseñadas para ser integradas en sistemas de ventilación, especialmente en zonas de paso de tabiques, tanto vertical como horizontalmente.
- Durante el fuego, las compuertas previenen la expansión del fuego, las llamas y el humo a través de los conductos de ventilación, permaneciendo aislada la zona contigua del edificio.
- En situaciones normales de operación, la compuerta permanece abierta; y en caso de fuego, se cierra la hoja interior o clapeta para impedir la propagación del fuego al habitáculo contiguo.

### NORMATIVA

- Resistencia al fuego **EIS120** (E=Integridad, I=Aislamiento térmico, S=Estanqueidad de los humos).
- Compuertas cortafuego certificadas según normativa **EN 15650** (Ventilación de edificios. Compuertas Cortafuego), **EN 13501-3** (Clasificación en función del comportamiento frente al fuego de los productos de construcción y elementos para la edificación. Parte 3: Clasificación a partir de datos obtenidos en ensayos de resistencia al fuego de productos y elementos utilizados en las instalaciones de servicio de los edificios: Conductos y compuertas resistentes al fuego) y **EN 1366-2** (Ensayos de resistencia al fuego de instalaciones de servicio. Parte 2: Compuertas cortafuegos).
- **Marcado CE** con certificados según modelos: mcr-FID-C (**1488-CPD-0203/W, 1396-CPR-0114**) y mcr-FID-P (**1488-CPR-0442/W, 1396-CPR-0103**)

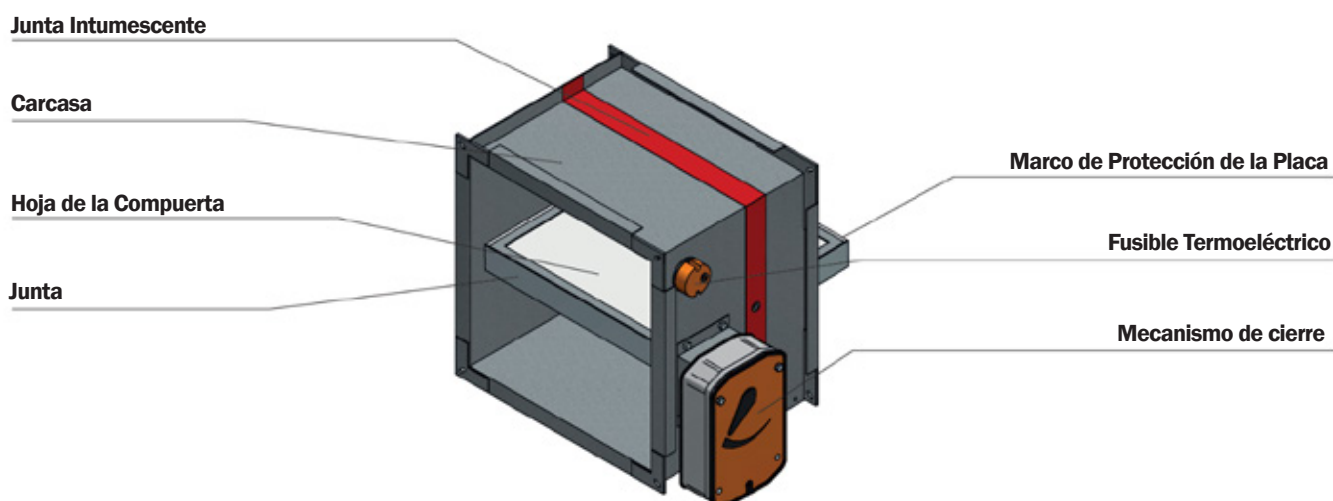
# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

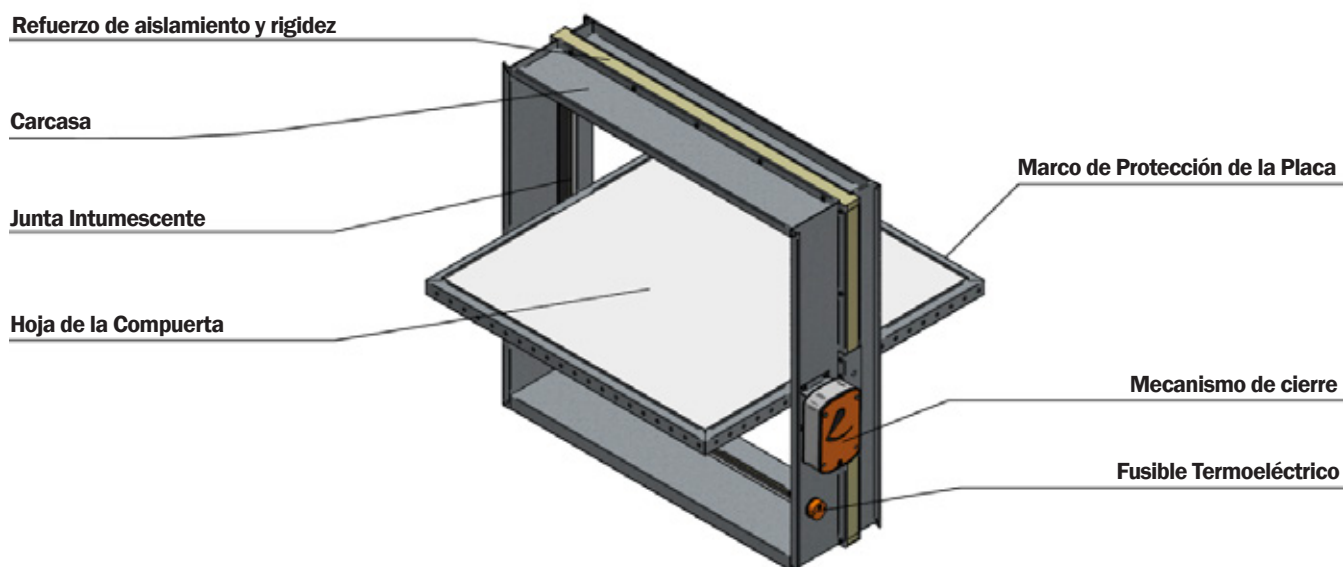
### DISEÑO

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#### COMPUERTA RECTANGULAR “mcr FID C”



#### COMPUERTA RECTANGULAR “mcr FID P”



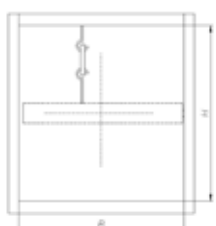
# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

### MECANISMOS DE DISPARO

Además del mecanismo de actuación manual, las compuertas cortafuego se pueden suministrar accionadas por otros mecanismos de tipo eléctrico. En estos casos la compuerta puede actuar por un doble sistema: mediante fusible térmico o mediante accionamiento electro-mecánico.

Tipos de accionamiento:

| DISPOSITIVO                                                                         | DESCRIPCIÓN                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>RST</b> Fusible térmico (tipo bimetálico)                                                                                                                                                                                                                                                           |
|                                                                                     | <b>RST / WK1</b> Fusible térmico bimetálico y contactos (1x NO + 1x NC) de señal de compuerta cerrada                                                                                                                                                                                                  |
|                                                                                     | <b>RST / WK2</b> Fusible térmico bimetálico y contactos (1x NO + 1x NC) de señales tanto de compuerta abierta como de cerrada                                                                                                                                                                          |
|   | <b>RST-KW1/S</b> Con fusible térmico bimetálico 74 ° + manivela de rearme                                                                                                                                                                                                                              |
|                                                                                     | <b>RST-KW1/S/WK2</b> Fusible térmico 74° + manivela de rearme + contactos final de carrera (2 X NO / NC)                                                                                                                                                                                               |
|                                                                                     | <b>RST-KW1/24I</b> Fusible térmico 74° + manivela de rearme + contactos final de carrera (2 X NO / NC) + sistema de cierre por pulso eléctrico de 24 Volt C.C.                                                                                                                                         |
|                                                                                     | <b>RST-KW1/24P</b> Fusible térmico 74° + manivela de rearme + contactos final de carrera (2 X NO / NC) + sistema de cierre por corte de tensión (24 Volt c.c.)                                                                                                                                         |
|                                                                                     | <b>RST-KW1/230I</b> Fusible térmico 74° + manivela de rearme + contactos final de carrera (2 X NO / NC) + sistema de cierre por pulso eléctrico de 230 Volt A.C.                                                                                                                                       |
|  | <b>RST-KW1/230P</b> Fusible térmico 74° + manivela de rearme + contactos final de carrera (2 X NO / NC) + sistema de cierre por corte de tensión (230 Volt A.C)                                                                                                                                        |
|                                                                                     | <b>BF24-T</b> Actuador eléctrico alimentado a 24 Volt C.C./A.C. con un consumo de 2,5 w. en reposo y 7 w. en funcionamiento y dispositivo de disparo termo eléctrico con contactos auxiliares (2 X SPDT) cuando la compuerta alcanza los 5° y 80°. (par motor 6 Nm Y par de retorno muelle 4 Nm)       |
|                                                                                     | <b>BF230-T</b> Actuador eléctrico alimentado a 220 Volt C.C./A.C. con un consumo de 3 w. en reposo y 5 w. en funcionamiento y dispositivo de disparo termo eléctrico con contactos auxiliares (2 X SPDT) cuando la compuerta alcanza los 5° y 80°. (par motor 6 Nm. Y par de retorno muelle 4 Nm.      |
|                                                                                     | <b>BFN24-T</b> Actuador eléctrico alimentado a 24 Volt C.C./A.C. con un consumo de 1,4 w. en reposo y 4 w. en funcionamiento y dispositivo de disparo termo eléctrico con contactos auxiliares (2 X SPDT) cuando la compuerta alcanza los 5° y 80°. (par motor 9 Nm. y par de retorno muelle 7 Nm.     |
|                                                                                     | <b>BFN230-T</b> Actuador eléctrico alimentado a 220 Volt. C.C./A.C. con un consumo de 2,1 w. en reposo y 5 w. en funcionamiento / y dispositivo de disparo termo eléctrico con contactos auxiliares (2 X SPDT) cuando la compuerta alcanza los 5° y 80° (par motor 9 Nm. y par de retorno muelle 7 Nm. |
|                                                                                     | <b>BFL24-T</b> Actuador eléctrico alimentado a 24 Volt C.C./A.C. con un consumo de 0,7 w. en reposo y 2,5 w en funcionamiento y dispositivo de disparo termo eléctrico con contactos auxiliares (2 X SPDT) cuando la compuerta llega a 5° y 80°. (par motor 4 Nm. Y par de retorno muelle 3 Nm.        |
|  | <b>BFL230-T</b> Actuador eléctrico alimentado a 220 Volt. C.C./A.C. con un consumo de 1,1 w. en reposo y 3,5 w. en funcionamiento y dispositivo de disparo termo eléctrico con contactos auxiliares (2 x SPDT) cuando la compuerta llega a 5° y 80° (par motor 4 Nm. Y par de retorno muelle 3 Nm.     |

# COMPUERTAS CORTAFUEGO

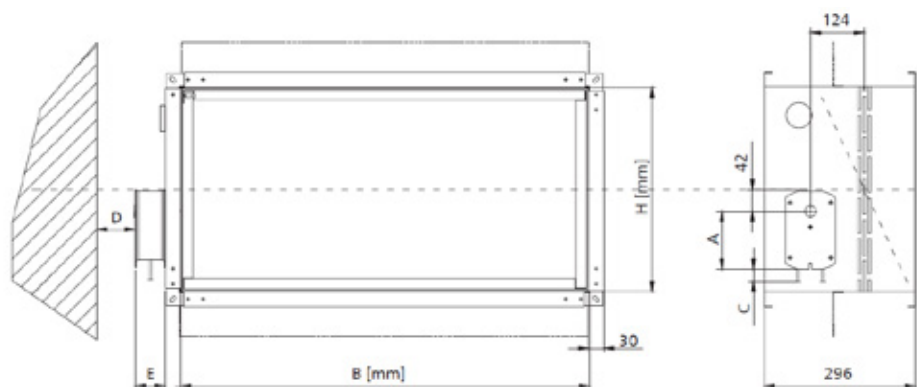
## COMPUERTAS CORTAFUEGO RECTANGULARES

### DIMENSIONES

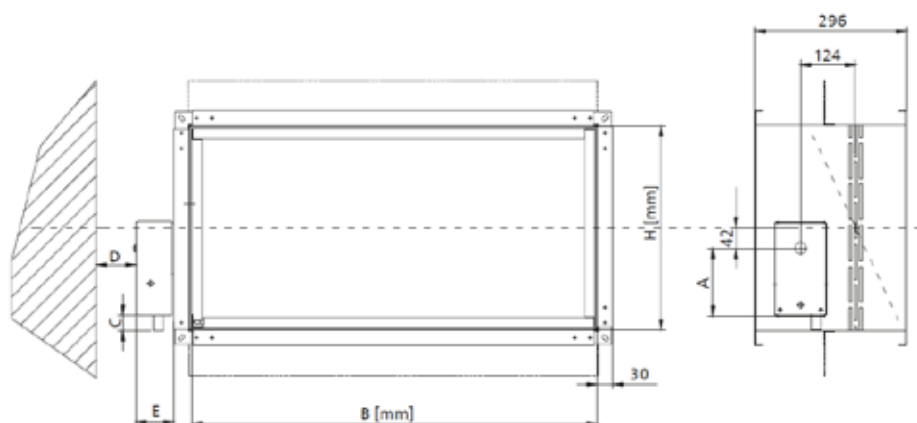
#### COMPUERTA RECTANGULAR “mcr FID C”

- Ancho nominal B: desde 200 mm. a 800 mm.
- Alto nominal H: desde 200 mm. a 400 mm.
- Superficie máxima de paso por Compuerta hasta 0,32 m<sup>2</sup>.

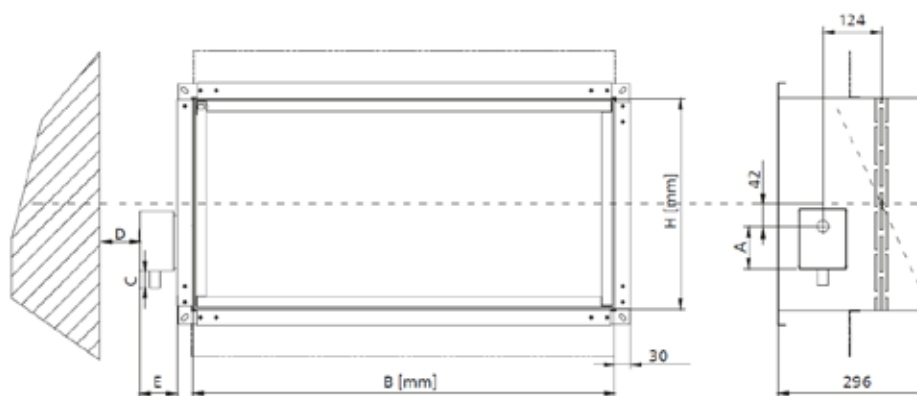
Dimensiones en función del mecanismo utilizado:



| MECANISMO | A  | C  | D  | E  |
|-----------|----|----|----|----|
| RST       | 50 | 30 | 75 | 70 |



| MECANISMO | A   | C  | D  | E  |
|-----------|-----|----|----|----|
| RST - KW1 | 130 | 30 | 75 | 80 |



| MECANISMO | A   | C  | D  | E   |
|-----------|-----|----|----|-----|
| BLF       | 50  | 30 | 75 | 70  |
| BFN       | 157 | 30 | 75 | 57  |
| BLF       | 138 | 30 | 75 | 53  |
| EXBF      | 225 | 55 | 75 | 175 |

# COMPUERTAS CORTAFUEGO

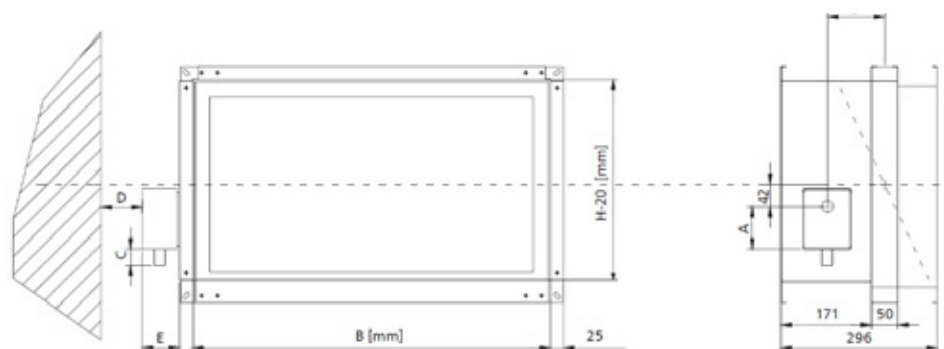
## COMPUERTAS CORTAFUEGO RECTANGULARES

### DIMENSIONES

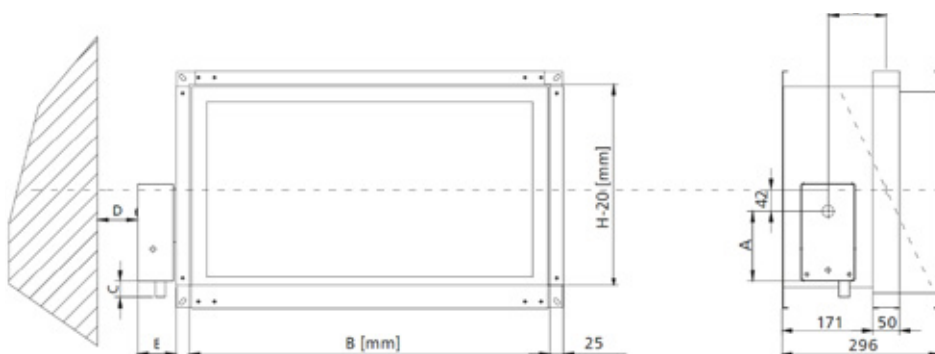
#### COMPUERTA RECTANGULAR “mcr FID P”

- Ancho nominal B: desde 200 mm. a 1500 mm.
- Alto nominal H: desde 200 mm. a 1500 mm.
- Superficie máxima de paso por Compuerta hasta 1,8 m2.

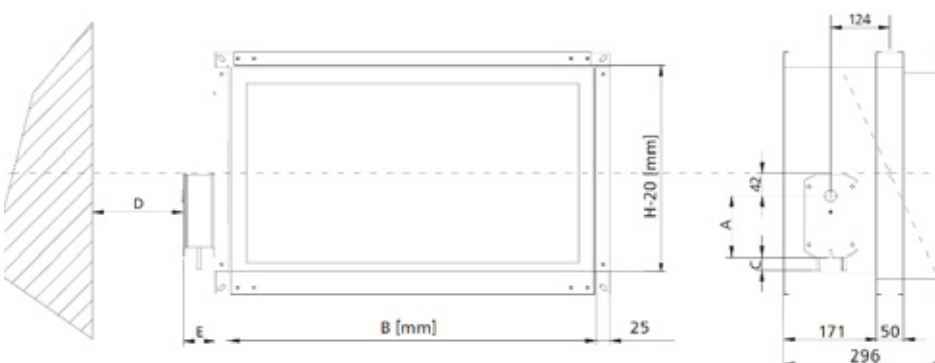
Dimensiones en función del mecanismo utilizado:



| MECANISMO | A  | C  | D  | E  |
|-----------|----|----|----|----|
| RST       | 50 | 30 | 75 | 75 |



| MECANISMO | A   | C  | D  | E  |
|-----------|-----|----|----|----|
| RST - KW1 | 130 | 30 | 75 | 85 |



| MECANISMO | A   | C  | D  | E  |
|-----------|-----|----|----|----|
| BLF       | 130 | 30 | 75 | 70 |
| BFN       | 157 | 30 | 75 | 62 |
| BLF       | 138 | 30 | 75 | 58 |
| EXBF      | 198 | 10 | 75 | 70 |

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

### PESO ESTIMADO COMPUERTAS

#### COMPUERTA RECTANGULAR “mcr FID C”

Peso en función de las dimensiones del conducto (Kg):

|               |     | Ancho B (mm) |      |      |     |     |     |     |     |
|---------------|-----|--------------|------|------|-----|-----|-----|-----|-----|
|               |     | 200          | 250  | 300  | 400 | 500 | 600 | 700 | 800 |
| Altura H (mm) | 200 | 7,5          | 8    | 9    | 10  | 11  | 14  | 16  | 18  |
|               | 250 | 8            | 9,5  | 10   | 11  | 14  | 15  | 17  | 19  |
|               | 300 | 9            | 10,5 | 11   | 12  | 15  | 16  | 18  | 20  |
|               | 350 | 10           | 11,5 | 12   | 13  | 16  | 17  | 19  | 21  |
|               | 400 | 11           | 12,5 | 13,5 | 14  | 18  | 19  | 21  | 22  |

#### COMPUERTA RECTANGULAR “mcr FID P”

Peso en función de las dimensiones del conducto (Kg):

|               |      | Ancho B (mm) |      |     |     |     |      |      |     |     |     |     |     |     |     |
|---------------|------|--------------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|
|               |      | 200          | 250  | 300 | 400 | 500 | 600  | 700  | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Altura H (mm) | 200  | 9,5          | 9,7  | 10  | 10  | 15  | 17   | 17,5 | 19  | 22  | 25  | 28  | 30  | 33  | 45  |
|               | 250  | 9,5          | 10   | 11  | 11  | 16  | 17,5 | 18   | 21  | 24  | 27  | 29  | 32  | 34  | 48  |
|               | 300  | 10           | 11   | 11  | 12  | 17  | 20   | 21   | 23  | 26  | 28  | 31  | 34  | 38  | 51  |
|               | 350  | 11           | 11   | 11  | 16  | 18  | 20,5 | 23   | 26  | 28  | 29  | 33  | 35  | 36  | 53  |
|               | 400  | 10           | 11   | 12  | 18  | 19  | 21   | 25   | 29  | 30  | 33  | 35  | 36  | 39  | 55  |
|               | 500  | 15           | 16   | 17  | 19  | 20  | 23   | 27   | 32  | 33  | 35  | 38  | 40  | 44  | 56  |
|               | 600  | 17           | 17,5 | 20  | 21  | 30  | 30   | 30   | 35  | 37  | 39  | 43  | 48  | 52  | 58  |
|               | 700  | 17,5         | 18   | 21  | 23  | 30  | 35   | 35   | 40  | 42  | 44  | 47  | 52  | 54  | 65  |
|               | 800  | 20           | 21   | 22  | 24  | 29  | 35   | 37   | 41  | 43  | 49  | 52  | 57  | 60  | 78  |
|               | 900  | 22           | 25   | 25  | 28  | 33  | 35   | 39   | 43  | 47  | 53  | 56  | 60  | 62  | 82  |
|               | 1000 | 23           | 29   | 28  | 33  | 36  | 42   | 43   | 49  | 53  | 56  | 59  | 65  | 67  | 98  |
|               | 1100 | 26           | 30   | 31  | 35  | 38  | 42   | 47   | 56  | 59  | 62  | 63  | 69  | 71  | 101 |
|               | 1200 | 32           | 33   | 35  | 36  | 40  | 49   | 53   | 56  | 61  | 71  | 72  | 73  | 85  | 105 |
|               | 1300 | 39           | 40   | 38  | 39  | 44  | 52   | 57   | 59  | 78  | 79  | 80  | 81  | 92  | -   |
|               | 1400 | -            | -    | 48  | 39  | 48  | 56   | 63   | 65  | 80  | 82  | 85  | 87  | -   | -   |
|               | 1500 | -            | -    | 50  | 50  | 52  | 58   | 68   | 71  | 82  | 98  | 115 | 120 | -   | -   |

NOTA: Para Compuertas sin actuador restar 1 Kg.



# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

### PARÁMETROS TÉCNICOS

#### COMPUERTA RECTANGULAR “mcr FID C”

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|
|        |     | 200        |            |            |             |            | 250                     |            |            |             |            | 300                     |            |            |             |            |                         |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |
| B [mm] | 200 | 4          | 0.04       | 0.033      | 468         | 7          | 27                      | 0.05       | 0.043      | 612         | 6          | 26                      | 0.06       | 0.053      | 756         | 6          | 28                      |
|        |     | 6          |            |            | 702         | 15         | 37                      |            |            | 918         | 13         | 37                      |            |            | 1 134       | 13         | 38                      |
|        |     | 8          |            |            | 936         | 26         | 45                      |            |            | 1 224       | 24         | 45                      |            |            | 1 512       | 22         | 44                      |
|        |     | 10         |            |            | 1 170       | 41         | 51                      |            |            | 1 530       | 37         | 50                      |            |            | 1 890       | 34         | 50                      |
|        | 250 | 4          | 0.05       | 0.041      | 585         | 6          | 27                      | 0.0625     | 0.053      | 765         | 6          | 27                      | 0.075      | 0.066      | 945         | 5          | 26                      |
|        |     | 6          |            |            | 878         | 14         | 37                      |            |            | 1 148       | 13         | 38                      |            |            | 1 418       | 11         | 37                      |
|        |     | 8          |            |            | 1 170       | 24         | 45                      |            |            | 1 530       | 23         | 45                      |            |            | 1 890       | 20         | 44                      |
|        |     | 10         |            |            | 1 463       | 38         | 50                      |            |            | 1 913       | 36         | 51                      |            |            | 2 363       | 31         | 50                      |
|        | 300 | 4          | 0.06       | 0.049      | 702         | 6          | 27                      | 0.075      | 0.064      | 918         | 6          | 28                      | 0.09       | 0.079      | 1 134       | 4          | 26                      |
|        |     | 6          |            |            | 1 053       | 13         | 38                      |            |            | 1 377       | 13         | 38                      |            |            | 1 701       | 10         | 36                      |
|        |     | 8          |            |            | 1 404       | 24         | 45                      |            |            | 1 836       | 22         | 46                      |            |            | 2 268       | 18         | 44                      |
|        |     | 10         |            |            | 1 755       | 37         | 51                      |            |            | 2 295       | 35         | 51                      |            |            | 2 835       | 28         | 49                      |
|        | 350 | 4          | 0.07       | 0.057      | 819         | 6          | 27                      | 0.0875     | 0.074      | 1 071       | 5          | 27                      | 0.105      | 0.092      | 1 323       | 4          | 25                      |
|        |     | 6          |            |            | 1 229       | 13         | 38                      |            |            | 1 607       | 11         | 37                      |            |            | 1 985       | 9          | 35                      |
|        |     | 8          |            |            | 1 638       | 22         | 45                      |            |            | 2 142       | 20         | 45                      |            |            | 2 646       | 16         | 43                      |
|        |     | 10         |            |            | 2 048       | 35         | 51                      |            |            | 2 678       | 31         | 50                      |            |            | 3 308       | 25         | 49                      |
|        | 400 | 4          | 0.08       | 0.065      | 936         | 5          | 27                      | 0.1        | 0.085      | 1 224       | 4          | 25                      | 0.12       | 0.105      | 1 512       | 4          | 24                      |
|        |     | 6          |            |            | 1 404       | 12         | 38                      |            |            | 1 836       | 9          | 35                      |            |            | 2 268       | 8          | 34                      |
|        |     | 8          |            |            | 1 872       | 22         | 45                      |            |            | 2 448       | 17         | 43                      |            |            | 3 024       | 14         | 42                      |
|        |     | 10         |            |            | 2 340       | 34         | 51                      |            |            | 3 060       | 26         | 49                      |            |            | 3 780       | 22         | 47                      |
|        | 450 | 4          | 0.09       | 0.073      | 1 053       | 5          | 27                      | 0.1125     | 0.096      | 1 377       | 3          | 22                      | 0.135      | 0.118      | 1 701       | 3          | 23                      |
|        |     | 6          |            |            | 1 580       | 11         | 37                      |            |            | 2 066       | 7          | 33                      |            |            | 2 552       | 7          | 33                      |
|        |     | 8          |            |            | 2 106       | 20         | 45                      |            |            | 2 754       | 13         | 40                      |            |            | 3 402       | 13         | 41                      |
|        |     | 10         |            |            | 2 633       | 31         | 50                      |            |            | 3 443       | 20         | 46                      |            |            | 4 253       | 20         | 47                      |
|        | 500 | 4          | 0.1        | 0.081      | 1 170       | 4          | 26                      | 0.125      | 0.106      | 1 530       | 3          | 23                      | 0.15       | 0.131      | 1 890       | 3          | 23                      |
|        |     | 6          |            |            | 1 755       | 10         | 36                      |            |            | 2 295       | 8          | 34                      |            |            | 2 835       | 7          | 34                      |
|        |     | 8          |            |            | 2 340       | 18         | 44                      |            |            | 3 060       | 13         | 41                      |            |            | 3 780       | 13         | 41                      |
|        |     | 10         |            |            | 2 925       | 28         | 50                      |            |            | 3 825       | 21         | 47                      |            |            | 4 725       | 20         | 47                      |
|        | 550 | 4          | 0.11       | 0.089      | 1 287       | 4          | 25                      | 0.1375     | 0.117      | 1 683       | 3          | 23                      | 0.165      | 0.144      | 2 079       | 3          | 22                      |
|        |     | 6          |            |            | 1 931       | 9          | 36                      |            |            | 2 525       | 7          | 33                      |            |            | 3 119       | 6          | 33                      |
|        |     | 8          |            |            | 2 574       | 17         | 43                      |            |            | 3 366       | 13         | 41                      |            |            | 4 158       | 12         | 40                      |
|        |     | 10         |            |            | 3 218       | 26         | 49                      |            |            | 4 208       | 20         | 47                      |            |            | 5 198       | 18         | 46                      |
|        | 600 | 4          | 0.12       | 0.098      | 1 404       | 3          | 21                      | 0.15       | 0.128      | 1 836       | 3          | 20                      | 0.18       | 0.158      | 2 268       | 2          | 20                      |
|        |     | 6          |            |            | 2 106       | 7          | 32                      |            |            | 2 754       | 6          | 31                      |            |            | 3 402       | 5          | 31                      |
|        |     | 8          |            |            | 2 808       | 12         | 39                      |            |            | 3 672       | 10         | 38                      |            |            | 4 536       | 10         | 38                      |
|        |     | 10         |            |            | 3 510       | 19         | 45                      |            |            | 4 590       | 16         | 44                      |            |            | 5 670       | 15         | 44                      |
|        | 650 | 4          | 0.13       | 0.106      | 1 521       | 3          | 22                      | 0.1625     | 0.138      | 1 989       | 3          | 21                      | 0.195      | 0.171      | 2 457       | 2          | 20                      |
|        |     | 6          |            |            | 2 282       | 7          | 32                      |            |            | 2 984       | 6          | 31                      |            |            | 3 686       | 5          | 30                      |
|        |     | 8          |            |            | 3 042       | 12         | 40                      |            |            | 3 978       | 10         | 39                      |            |            | 4 914       | 9          | 38                      |
|        |     | 10         |            |            | 3 803       | 19         | 46                      |            |            | 4 973       | 16         | 45                      |            |            | 6 143       | 14         | 44                      |
|        | 700 | 4          | 0.14       | 0.114      | 1 638       | 3          | 21                      | 0.175      | 0.149      | 2 142       | 2          | 20                      | 0.21       | 0.184      | 2 646       | 2          | 19                      |
|        |     | 6          |            |            | 2 457       | 6          | 32                      |            |            | 3 213       | 5          | 31                      |            |            | 3 969       | 5          | 30                      |
|        |     | 8          |            |            | 3 276       | 12         | 39                      |            |            | 4 284       | 10         | 38                      |            |            | 5 292       | 8          | 37                      |
|        |     | 10         |            |            | 4 095       | 18         | 45                      |            |            | 5 355       | 15         | 44                      |            |            | 6 615       | 13         | 43                      |
|        | 750 | 4          | 0.15       | 0.122      | 1 755       | 3          | 21                      | 0.1875     | 0.159      | 2 295       | 2          | 20                      | 0.225      | 0.197      | 2 835       | 2          | 20                      |
|        |     | 6          |            |            | 2 633       | 6          | 31                      |            |            | 3 443       | 5          | 31                      |            |            | 4 253       | 5          | 30                      |
|        |     | 8          |            |            | 3 510       | 11         | 39                      |            |            | 4 590       | 10         | 38                      |            |            | 5 670       | 8          | 38                      |
|        |     | 10         |            |            | 4 388       | 17         | 45                      |            |            | 5 738       | 15         | 44                      |            |            | 7 088       | 13         | 43                      |
|        | 800 | 4          | 0.16       | 0.130      | 1 872       | 2          | 20                      | 0.2        | 0.170      | 2 448       | 2          | 20                      | 0.24       | 0.210      | 3 024       | 2          | 19                      |
|        |     | 6          |            |            | 2 808       | 5          | 30                      |            |            | 3 672       | 5          | 30                      |            |            | 4 536       | 4          | 29                      |
|        |     | 8          |            |            | 3 744       | 10         | 38                      |            |            | 4 896       | 9          | 38                      |            |            | 6 048       | 8          | 37                      |
|        |     | 10         |            |            | 4 680       | 15         | 43                      |            |            | 6 120       | 14         | 44                      |            |            | 7 560       | 12         | 43                      |

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>W/A</sub>** – Nivel de Presión sonora [ dB ]

|        |         | H [mm]               |                      |                       |         |                       |                      |                      |                       |         |                       |
|--------|---------|----------------------|----------------------|-----------------------|---------|-----------------------|----------------------|----------------------|-----------------------|---------|-----------------------|
|        |         | 350                  |                      |                       |         |                       | 400                  |                      |                       |         |                       |
|        | v [m/s] | Sk [m <sup>2</sup> ] | Se [m <sup>2</sup> ] | Q [m <sup>3</sup> /h] | dp [Pa] | L <sub>W/A</sub> [dB] | Sk [m <sup>2</sup> ] | Se [m <sup>2</sup> ] | Q [m <sup>3</sup> /h] | dp [Pa] | L <sub>W/A</sub> [dB] |
| B [mm] | 4       | 0.07                 | 0.063                | 900                   | 5       | 26                    | 0.08                 | 0.073                | 1 044                 | 5       | 26                    |
|        | 6       |                      |                      | 1 350                 | 12      | 37                    |                      |                      | 1 566                 | 11      | 37                    |
|        | 8       |                      |                      | 1 800                 | 21      | 44                    |                      |                      | 2 088                 | 19      | 44                    |
|        | 10      |                      |                      | 2 250                 | 32      | 50                    |                      |                      | 2 610                 | 30      | 50                    |
|        | 4       | 0.0875               | 0.078                | 1 125                 | 4       | 25                    | 0.1                  | 0.091                | 1 305                 | 4       | 25                    |
|        | 6       |                      |                      | 1 688                 | 10      | 36                    |                      |                      | 1 958                 | 9       | 35                    |
|        | 8       |                      |                      | 2 250                 | 17      | 43                    |                      |                      | 2 610                 | 16      | 43                    |
|        | 10      |                      |                      | 2 813                 | 27      | 49                    |                      |                      | 3 263                 | 25      | 49                    |
|        | 4       | 0.105                | 0.094                | 1 350                 | 4       | 26                    | 0.12                 | 0.109                | 1 566                 | 4       | 24                    |
|        | 6       |                      |                      | 2 025                 | 10      | 36                    |                      |                      | 2 349                 | 8       | 35                    |
|        | 8       |                      |                      | 2 700                 | 17      | 44                    |                      |                      | 3 132                 | 15      | 42                    |
|        | 10      |                      |                      | 3 375                 | 27      | 50                    |                      |                      | 3 915                 | 23      | 48                    |
|        | 4       | 0.1225               | 0.109                | 1 575                 | 4       | 25                    | 0.14                 | 0.127                | 1 827                 | 4       | 25                    |
|        | 6       |                      |                      | 2 363                 | 9       | 36                    |                      |                      | 2 741                 | 8       | 36                    |
|        | 8       |                      |                      | 3 150                 | 15      | 43                    |                      |                      | 3 654                 | 15      | 43                    |
|        | 10      |                      |                      | 3 938                 | 24      | 49                    |                      |                      | 4 568                 | 23      | 49                    |
|        | 4       | 0.14                 | 0.125                | 1 800                 | 3       | 24                    | 0.16                 | 0.145                | 2 088                 | 3       | 23                    |
|        | 6       |                      |                      | 2 700                 | 8       | 34                    |                      |                      | 3 132                 | 7       | 34                    |
|        | 8       |                      |                      | 3 600                 | 13      | 42                    |                      |                      | 4 176                 | 12      | 41                    |
|        | 10      |                      |                      | 4 500                 | 21      | 48                    |                      |                      | 5 220                 | 19      | 47                    |
|        | 4       | 0.1575               | 0.141                | 2 025                 | 3       | 24                    | 0.18                 | 0.163                | 2 349                 | 3       | 21                    |
|        | 6       |                      |                      | 3 038                 | 7       | 34                    |                      |                      | 3 524                 | 6       | 32                    |
|        | 8       |                      |                      | 4 050                 | 13      | 42                    |                      |                      | 4 698                 | 10      | 39                    |
|        | 10      |                      |                      | 5 063                 | 20      | 48                    |                      |                      | 5 873                 | 16      | 45                    |
|        | 4       | 0.175                | 0.156                | 2 250                 | 2       | 20                    | 0.2                  | 0.181                | 2 610                 | 2       | 20                    |
|        | 6       |                      |                      | 3 375                 | 5       | 31                    |                      |                      | 3 915                 | 5       | 31                    |
|        | 8       |                      |                      | 4 500                 | 10      | 38                    |                      |                      | 5 220                 | 9       | 38                    |
|        | 10      |                      |                      | 5 625                 | 15      | 44                    |                      |                      | 6 525                 | 14      | 44                    |
|        | 4       | 0.1925               | 0.172                | 2 475                 | 2       | 19                    | 0.22                 | 0.199                | 2 871                 | 2       | 20                    |
|        | 6       |                      |                      | 3 713                 | 5       | 29                    |                      |                      | 4 307                 | 5       | 30                    |
|        | 8       |                      |                      | 4 950                 | 8       | 37                    |                      |                      | 5 742                 | 8       | 38                    |
|        | 10      |                      |                      | 6 188                 | 13      | 43                    |                      |                      | 7 178                 | 13      | 43                    |
|        | 4       | 0.21                 | 0.188                | 2 700                 | 2       | 18                    | 0.24                 | 0.218                | 3 132                 | 2       | 19                    |
|        | 6       |                      |                      | 4 050                 | 4       | 29                    |                      |                      | 4 698                 | 4       | 28                    |
|        | 8       |                      |                      | 5 400                 | 8       | 36                    |                      |                      | 6 264                 | 7       | 36                    |
|        | 10      |                      |                      | 6 750                 | 12      | 42                    |                      |                      | 7 830                 | 11      | 42                    |
|        | 4       | 0.2275               | 0.203                | 2 925                 | 2       | 19                    | 0.26                 | 0.236                | 3 393                 | 2       | 18                    |
|        | 6       |                      |                      | 4 388                 | 4       | 29                    |                      |                      | 5 090                 | 4       | 29                    |
|        | 8       |                      |                      | 5 850                 | 8       | 37                    |                      |                      | 6 786                 | 7       | 36                    |
|        | 10      |                      |                      | 7 313                 | 12      | 42                    |                      |                      | 8 483                 | 11      | 42                    |
|        | 4       | 0.245                | 0.219                | 3 150                 | 2       | 18                    | 0.28                 | 0.254                | 3 654                 | 2       | 18                    |
|        | 6       |                      |                      | 4 725                 | 4       | 28                    |                      |                      | 5 481                 | 4       | 29                    |
|        | 8       |                      |                      | 6 300                 | 7       | 36                    |                      |                      | 7 308                 | 7       | 36                    |
|        | 10      |                      |                      | 7 875                 | 11      | 42                    |                      |                      | 9 135                 | 11      | 42                    |
|        | 4       | 0.2625               | 0.234                | 3 375                 | 2       | 18                    | 0.3                  | 0.272                | 3 915                 | 2       | 17                    |
|        | 6       |                      |                      | 5 063                 | 4       | 29                    |                      |                      | 5 873                 | 4       | 28                    |
|        | 8       |                      |                      | 6 750                 | 7       | 36                    |                      |                      | 7 830                 | 6       | 35                    |
|        | 10      |                      |                      | 8 438                 | 11      | 42                    |                      |                      | 9 788                 | 10      | 41                    |
|        | 4       | 0.28                 | 0.250                | 3 600                 | 2       | 18                    | 0.32                 | 0.290                | 4 176                 | 2       | 18                    |
|        | 6       |                      |                      | 5 400                 | 4       | 29                    |                      |                      | 6 264                 | 4       | 28                    |
|        | 8       |                      |                      | 7 200                 | 7       | 36                    |                      |                      | 8 352                 | 6       | 36                    |
|        | 10      |                      |                      | 9 000                 | 11      | 42                    |                      |                      | 10 440                | 10      | 41                    |



# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

### COMPUERTA RECTANGULAR “mcr FID P”

**B** – Ancho Nominal [ mm ]

**H** – Alto Nominal [ mm ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**v** – velocidad [ m/s ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**L<sub>W/A</sub>** – Nivel de Presión sonora [ dB ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**dp** – Caída de Presión [ Pa ]

|        |       | H (mm)            |                   |                     |      |                  |                   |                   |                     |      |                  |                   |                   |                     |      |                  |
|--------|-------|-------------------|-------------------|---------------------|------|------------------|-------------------|-------------------|---------------------|------|------------------|-------------------|-------------------|---------------------|------|------------------|
|        |       | 200               |                   |                     |      |                  | 250               |                   |                     |      |                  | 300               |                   |                     |      |                  |
|        | v     | Sk                | Se                | Q                   | dp   | L <sub>W/A</sub> | Sk                | Se                | Q                   | dp   | L <sub>W/A</sub> | Sk                | Se                | Q                   | dp   | L <sub>W/A</sub> |
|        | [m/s] | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [m <sup>3</sup> /h] | [Pa] | [dB]             | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [m <sup>3</sup> /h] | [Pa] | [dB]             | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [m <sup>3</sup> /h] | [Pa] | [dB]             |
| B [mm] | 4     |                   |                   | 420                 | 9    | 31               |                   |                   | 564                 | 9    | 31               |                   |                   | 708                 | 8    | 32               |
|        | 6     | 0.040             | 0.029             | 631                 | 21   | 41               | 0.050             | 0.039             | 847                 | 19   | 42               | 0.060             | 0.049             | 1 063               | 19   | 42               |
|        | 8     |                   |                   | 841                 | 37   | 49               |                   |                   | 1 129               | 35   | 49               |                   |                   | 1 417               | 33   | 50               |
|        | 10    |                   |                   | 1 051               | 58   | 55               |                   |                   | 1 411               | 54   | 55               |                   |                   | 1 771               | 52   | 55               |
|        | 4     |                   |                   | 526                 | 9    | 31               |                   |                   | 706                 | 9    | 32               |                   |                   | 886                 | 8    | 32               |
|        | 6     | 0.050             | 0.037             | 788                 | 21   | 42               | 0.063             | 0.049             | 1 058               | 19   | 43               | 0.075             | 0.062             | 1 328               | 18   | 42               |
|        | 8     |                   |                   | 1 051               | 37   | 50               |                   |                   | 1 411               | 35   | 50               |                   |                   | 1 771               | 31   | 50               |
|        | 10    |                   |                   | 1 314               | 57   | 55               |                   |                   | 1 764               | 54   | 56               |                   |                   | 2 214               | 49   | 56               |
|        | 4     |                   |                   | 631                 | 9    | 32               |                   |                   | 847                 | 8    | 33               |                   |                   | 1 063               | 8    | 32               |
|        | 6     | 0.060             | 0.044             | 946                 | 20   | 43               | 0.075             | 0.059             | 1 270               | 19   | 43               | 0.090             | 0.074             | 1 594               | 17   | 43               |
|        | 8     |                   |                   | 1 261               | 36   | 50               |                   |                   | 1 693               | 34   | 51               |                   |                   | 2 125               | 30   | 50               |
|        | 10    |                   |                   | 1 577               | 56   | 56               |                   |                   | 2 117               | 53   | 56               |                   |                   | 2 657               | 47   | 56               |
| B [mm] | 4     |                   |                   | 736                 | 9    | 33               |                   |                   | 988                 | 8    | 33               |                   |                   | 1 240               | 7    | 32               |
|        | 6     | 0.070             | 0.051             | 1 104               | 20   | 43               | 0.088             | 0.069             | 1 482               | 19   | 44               | 0.105             | 0.086             | 1 860               | 16   | 43               |
|        | 8     |                   |                   | 1 472               | 36   | 51               |                   |                   | 1 976               | 33   | 51               |                   |                   | 2 480               | 29   | 50               |
|        | 10    |                   |                   | 1 840               | 56   | 57               |                   |                   | 2 470               | 52   | 57               |                   |                   | 3 100               | 45   | 56               |
|        | 4     |                   |                   | 841                 | 9    | 33               |                   |                   | 1 129               | 8    | 34               |                   |                   | 1 417               | 7    | 32               |
|        | 6     | 0.080             | 0.058             | 1 261               | 19   | 43               | 0.100             | 0.078             | 1 693               | 19   | 44               | 0.120             | 0.098             | 2 125               | 15   | 42               |
|        | 8     |                   |                   | 1 682               | 35   | 51               |                   |                   | 2 258               | 33   | 52               |                   |                   | 2 834               | 27   | 50               |
|        | 10    |                   |                   | 2 102               | 54   | 57               |                   |                   | 2 822               | 52   | 57               |                   |                   | 3 542               | 42   | 56               |
|        | 4     |                   |                   | 946                 | 9    | 33               |                   |                   | 1 270               | 7    | 32               |                   |                   | 1 594               | 7    | 32               |
|        | 6     | 0.090             | 0.066             | 1 419               | 19   | 44               | 0.113             | 0.088             | 1 905               | 17   | 43               | 0.135             | 0.111             | 2 391               | 15   | 43               |
|        | 8     |                   |                   | 1 892               | 35   | 51               |                   |                   | 2 540               | 29   | 51               |                   |                   | 3 188               | 27   | 50               |
|        | 10    |                   |                   | 2 365               | 54   | 57               |                   |                   | 3 175               | 46   | 56               |                   |                   | 3 985               | 42   | 56               |
| B [mm] | 4     |                   |                   | 1 051               | 9    | 34               |                   |                   | 1 411               | 7    | 32               |                   |                   | 1 771               | 7    | 32               |
|        | 6     | 0.100             | 0.073             | 1 577               | 19   | 44               | 0.125             | 0.098             | 2 117               | 16   | 43               | 0.150             | 0.123             | 2 657               | 15   | 43               |
|        | 8     |                   |                   | 2 102               | 35   | 52               |                   |                   | 2 822               | 28   | 50               |                   |                   | 3 542               | 26   | 50               |
|        | 10    |                   |                   | 2 628               | 54   | 58               |                   |                   | 3 528               | 44   | 56               |                   |                   | 4 428               | 41   | 56               |
|        | 4     |                   |                   | 1 156               | 8    | 34               |                   |                   | 1 552               | 7    | 33               |                   |                   | 1 948               | 6    | 33               |
|        | 6     | 0.110             | 0.080             | 1 734               | 19   | 44               | 0.138             | 0.108             | 2 328               | 16   | 43               | 0.165             | 0.135             | 2 922               | 14   | 43               |
|        | 8     |                   |                   | 2 313               | 34   | 52               |                   |                   | 3 105               | 28   | 51               |                   |                   | 3 897               | 26   | 51               |
|        | 10    |                   |                   | 2 891               | 53   | 58               |                   |                   | 3 881               | 44   | 57               |                   |                   | 4 871               | 40   | 56               |
|        | 4     |                   |                   | 1 261               | 8    | 34               |                   |                   | 1 693               | 7    | 33               |                   |                   | 2 125               | 6    | 33               |
|        | 6     | 0.120             | 0.088             | 1 892               | 19   | 45               | 0.150             | 0.118             | 2 540               | 15   | 43               | 0.180             | 0.148             | 3 188               | 14   | 43               |
|        | 8     |                   |                   | 2 523               | 34   | 52               |                   |                   | 3 387               | 27   | 51               |                   |                   | 4 251               | 26   | 51               |
|        | 10    |                   |                   | 3 154               | 53   | 58               |                   |                   | 4 234               | 42   | 56               |                   |                   | 5 314               | 40   | 57               |
| B [mm] | 4     |                   |                   | 1 367               | 8    | 35               |                   |                   | 1 835               | 6    | 32               |                   |                   | 2 303               | 6    | 33               |
|        | 6     | 0.130             | 0.095             | 2 050               | 19   | 45               | 0.163             | 0.127             | 2 752               | 14   | 43               | 0.195             | 0.160             | 3 454               | 14   | 44               |
|        | 8     |                   |                   | 2 733               | 34   | 53               |                   |                   | 3 669               | 26   | 50               |                   |                   | 4 605               | 26   | 51               |
|        | 10    |                   |                   | 3 416               | 53   | 59               |                   |                   | 4 586               | 40   | 56               |                   |                   | 5 756               | 40   | 57               |
|        | 4     |                   |                   | 1 472               | 8    | 35               |                   |                   | 1 976               | 6    | 33               |                   |                   | 2 480               | 6    | 34               |
|        | 6     | 0.140             | 0.102             | 2 208               | 19   | 45               | 0.175             | 0.137             | 2 964               | 14   | 43               | 0.210             | 0.172             | 3 720               | 14   | 44               |
|        | 8     |                   |                   | 2 943               | 33   | 53               |                   |                   | 3 951               | 26   | 51               |                   |                   | 4 959               | 26   | 52               |
|        | 10    |                   |                   | 3 679               | 52   | 59               |                   |                   | 4 939               | 40   | 56               |                   |                   | 6 199               | 40   | 57               |
|        | 4     |                   |                   | 1 682               | 8    | 35               |                   |                   | 2 258               | 6    | 32               |                   |                   | 2 834               | 6    | 33               |
|        | 6     | 0.160             | 0.117             | 2 523               | 18   | 45               | 0.200             | 0.157             | 3 387               | 14   | 43               | 0.240             | 0.197             | 4 251               | 14   | 44               |
|        | 8     |                   |                   | 3 364               | 32   | 53               |                   |                   | 4 516               | 24   | 51               |                   |                   | 5 668               | 24   | 52               |
|        | 10    |                   |                   | 4 205               | 50   | 59               |                   |                   | 5 645               | 38   | 56               |                   |                   | 7 085               | 38   | 57               |
| B [mm] | 4     |                   |                   | 1 892               | 7    | 34               |                   |                   | 2 540               | 6    | 32               |                   |                   | 3 188               | 5    | 32               |
|        | 6     | 0.180             | 0.131             | 2 838               | 16   | 44               | 0.225             | 0.176             | 3 810               | 13   | 43               | 0.270             | 0.221             | 4 782               | 12   | 42               |
|        | 8     |                   |                   | 3 784               | 29   | 52               |                   |                   | 5 080               | 23   | 50               |                   |                   | 6 376               | 21   | 50               |
|        | 10    |                   |                   | 4 730               | 45   | 58               |                   |                   | 6 350               | 36   | 56               |                   |                   | 7 970               | 32   | 56               |
|        | 4     |                   |                   | 2 102               | 7    | 34               |                   |                   | 2 822               | 6    | 32               |                   |                   | 3 542               | 5    | 32               |
|        | 6     | 0.200             | 0.146             | 3 154               | 16   | 45               | 0.250             | 0.196             | 4 234               | 13   | 43               | 0.300             | 0.246             | 5 314               | 12   | 43               |
|        | 8     |                   |                   | 4 205               | 29   | 52               |                   |                   | 5 645               | 22   | 50               |                   |                   | 7 085               | 21   | 50               |
|        | 10    |                   |                   | 5 256               | 45   | 58               |                   |                   | 7 056               | 35   | 56               |                   |                   | 8 856               | 32   | 56               |
|        | 4     |                   |                   | 2 313               | 7    | 35               |                   |                   | 3 105               | 5    | 32               |                   |                   | 3 897               | 5    | 33               |
|        | 6     | 0.220             | 0.161             | 3 469               | 16   | 45               | 0.275             | 0.216             | 4 657               | 12   | 43               | 0.330             | 0.271             | 5 845               | 12   | 43               |
|        | 8     |                   |                   | 4 625               | 29   | 53               |                   |                   | 6 209               | 22   | 50               |                   |                   | 7 793               | 21   | 51               |
|        | 10    |                   |                   | 5 782               | 45   | 59               |                   |                   | 7 762               | 34   | 56               |                   |                   | 9 742               | 32   | 56               |
| B [mm] | 4     |                   |                   | 2 523               | 8    | 37               |                   |                   | 3 387               | 5    | 33               |                   |                   | 4 251               | 9    | 40               |
|        | 6     | 0.240             | 0.175             | 3 784               | 18   | 47               | 0.300             | 0.235             | 5 080               | 12   | 43               | 0.360             | 0.295             | 6 376               | 20   | 51               |
|        | 8     |                   |                   | 5 046               | 29   | 53               |                   |                   | 6 774               | 22   | 51               |                   |                   | 8 502               | 36   | 58               |
|        | 10    |                   |                   | 6 307               | 45   | 59               |                   |                   | 8 467               | 34   | 57               |                   |                   | 10 627              | 42   | 60               |
|        | 4     |                   |                   | 2 733               | 8    | 37               |                   |                   | 3 669               | 5    | 33               |                   |                   | 4 605               | 5    | 33               |
|        | 6     | 0.260             | 0.190             | 4 100               | 18   | 47               | 0.325             | 0.255             | 5 504               | 12   | 43               | 0.390             | 0.320             | 6 908               | 12   | 44               |
|        | 8     |                   |                   | 5 466               | 29   | 54               |                   |                   | 7 338               | 21   | 51               |                   |                   | 9 210               | 21   | 51               |
|        | 10    |                   |                   | 6 833               | 45   | 59               |                   |                   | 9 173               | 33   | 57               |                   |                   | 11 513              | 32   | 57               |
|        | 4     |                   |                   | 2 943               | 7    | 36               |                   |                   | 3 951               | 5    | 33               |                   |                   | 4 959               | 5    | 34               |
|        | 6     | 0.280             | 0.204             | 4 415               | 16   | 46               | 0.350             | 0.274             | 5 927               | 12   | 44               | 0.420             | 0.344             | 7 439               | 12   | 44               |
|        | 8     |                   |                   | 5 887               | 29   | 54               |                   |                   | 7 903               | 21   | 51               |                   |                   | 9 919               | 21   | 52               |
|        | 10    |                   |                   | 7 358               | 45   | 60               |                   |                   | 9 878               | 32   | 57               |                   |                   | 12 398              | 32   | 58               |
| B [mm] | 4     |                   |                   | 3 154               | 7    | 35               |                   |                   | 4 234               | 5    | 33               |                   |                   | 5 314               | 5    | 34               |
|        | 6     | 0.300             | 0.219             | 4 730               | 15   | 46               | 0.375             | 0.294             | 6 350               | 12   | 44               | 0.450             | 0.369             | 7 970               | 12   | 45               |
|        | 8     |                   |                   | 6 307               | 27   | 53               |                   |                   | 8 467               | 21   | 51               |                   |                   | 10 627              | 21   | 52               |
|        | 10    |                   |                   | 7 884               | 42   | 59               |                   |                   | 10 584              | 32   | 57               |                   |                   | 13 284              | 32   | 58               |

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|
|        |     | 350        |            |            |             |            | 400                     |            |            |             |            | 450                     |            |            |             |            |                         |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |
| B [mm] | 200 | 4          | 0.070      | 0.059      | 852         | 8          | 32                      | 0.080      | 0.069      | 996         | 7          | 31                      | 0.090      | 0.079      | 1 140       | 7          | 31                      |
|        |     | 6          |            |            | 1 279       | 18         | 42                      |            |            | 1 495       | 17         | 42                      |            |            | 1 711       | 15         | 41                      |
|        |     | 8          |            |            | 1 705       | 32         | 50                      |            |            | 1 993       | 29         | 49                      |            |            | 2 281       | 26         | 49                      |
|        |     | 10         |            |            | 2 131       | 50         | 56                      |            |            | 2 491       | 46         | 55                      |            |            | 2 851       | 41         | 54                      |
|        | 250 | 4          | 0.088      | 0.074      | 1 066       | 7          | 31                      | 0.100      | 0.087      | 1 246       | 6          | 29                      | 0.113      | 0.099      | 1 426       | 6          | 29                      |
|        |     | 6          |            |            | 1 598       | 16         | 42                      |            |            | 1 868       | 13         | 40                      |            |            | 2 138       | 13         | 40                      |
|        |     | 8          |            |            | 2 131       | 29         | 50                      |            |            | 2 491       | 23         | 47                      |            |            | 2 851       | 22         | 47                      |
|        |     | 10         |            |            | 2 664       | 45         | 55                      |            |            | 3 114       | 36         | 53                      |            |            | 3 564       | 35         | 53                      |
|        | 300 | 4          | 0.105      | 0.089      | 1 279       | 7          | 32                      | 0.120      | 0.104      | 1 495       | 6          | 30                      | 0.135      | 0.119      | 1 711       | 5          | 30                      |
|        |     | 6          |            |            | 1 918       | 16         | 43                      |            |            | 2 242       | 13         | 41                      |            |            | 2 566       | 12         | 40                      |
|        |     | 8          |            |            | 2 557       | 28         | 50                      |            |            | 2 989       | 24         | 48                      |            |            | 3 421       | 22         | 48                      |
|        |     | 10         |            |            | 3 197       | 44         | 56                      |            |            | 3 737       | 37         | 54                      |            |            | 4 277       | 34         | 54                      |
|        | 350 | 4          | 0.123      | 0.104      | 1 492       | 7          | 32                      | 0.140      | 0.121      | 1 744       | 6          | 30                      | 0.158      | 0.139      | 1 996       | 5          | 30                      |
|        |     | 6          |            |            | 2 238       | 15         | 42                      |            |            | 2 616       | 13         | 41                      |            |            | 2 994       | 12         | 41                      |
|        |     | 8          |            |            | 2 984       | 26         | 50                      |            |            | 3 488       | 22         | 48                      |            |            | 3 992       | 21         | 48                      |
|        |     | 10         |            |            | 3 730       | 41         | 56                      |            |            | 4 360       | 35         | 54                      |            |            | 4 990       | 33         | 54                      |
|        | 400 | 4          | 0.140      | 0.118      | 1 705       | 6          | 31                      | 0.160      | 0.138      | 1 993       | 6          | 31                      | 0.180      | 0.158      | 2 281       | 5          | 30                      |
|        |     | 6          |            |            | 2 557       | 13         | 41                      |            |            | 2 989       | 13         | 41                      |            |            | 3 421       | 12         | 41                      |
|        |     | 8          |            |            | 3 410       | 24         | 49                      |            |            | 3 986       | 22         | 49                      |            |            | 4 562       | 21         | 48                      |
|        |     | 10         |            |            | 4 262       | 37         | 55                      |            |            | 4 982       | 35         | 55                      |            |            | 5 702       | 32         | 54                      |
|        | 450 | 4          | 0.158      | 0.133      | 1 918       | 5          | 30                      | 0.180      | 0.156      | 2 242       | 5          | 30                      | 0.203      | 0.178      | 2 566       | 4          | 29                      |
|        |     | 6          |            |            | 2 877       | 12         | 41                      |            |            | 3 363       | 12         | 41                      |            |            | 3 849       | 10         | 40                      |
|        |     | 8          |            |            | 3 836       | 22         | 48                      |            |            | 4 484       | 21         | 48                      |            |            | 5 132       | 18         | 47                      |
|        |     | 10         |            |            | 4 795       | 34         | 54                      |            |            | 5 605       | 32         | 54                      |            |            | 6 415       | 28         | 53                      |
|        | 500 | 4          | 0.175      | 0.148      | 2 131       | 5          | 31                      | 0.200      | 0.173      | 2 491       | 5          | 30                      | 0.225      | 0.198      | 2 851       | 4          | 29                      |
|        |     | 6          |            |            | 3 197       | 12         | 41                      |            |            | 3 737       | 11         | 40                      |            |            | 4 277       | 9          | 39                      |
|        |     | 8          |            |            | 4 262       | 22         | 49                      |            |            | 4 982       | 19         | 48                      |            |            | 5 702       | 17         | 47                      |
|        |     | 10         |            |            | 5 328       | 34         | 55                      |            |            | 6 228       | 30         | 54                      |            |            | 7 128       | 26         | 52                      |
|        | 550 | 4          | 0.193      | 0.163      | 2 557       | 5          | 30                      | 0.220      | 0.190      | 2 740       | 5          | 30                      | 0.248      | 0.218      | 3 136       | 4          | 29                      |
|        |     | 6          |            |            | 3 836       | 12         | 41                      |            |            | 4 110       | 11         | 41                      |            |            | 4 704       | 9          | 40                      |
|        |     | 8          |            |            | 5 115       | 21         | 48                      |            |            | 5 481       | 19         | 48                      |            |            | 6 273       | 17         | 47                      |
|        |     | 10         |            |            | 6 394       | 32         | 54                      |            |            | 6 851       | 30         | 54                      |            |            | 7 841       | 26         | 53                      |
|        | 600 | 4          | 0.210      | 0.178      | 2 557       | 5          | 30                      | 0.240      | 0.208      | 2 989       | 4          | 28                      | 0.270      | 0.238      | 3 421       | 4          | 29                      |
|        |     | 6          |            |            | 3 836       | 10         | 40                      |            |            | 4 484       | 8          | 37                      |            |            | 5 132       | 9          | 40                      |
|        |     | 8          |            |            | 5 115       | 19         | 48                      |            |            | 5 979       | 14         | 45                      |            |            | 6 843       | 17         | 47                      |
|        |     | 10         |            |            | 6 394       | 29         | 53                      |            |            | 7 474       | 27         | 53                      |            |            | 8 554       | 26         | 53                      |
|        | 650 | 4          | 0.228      | 0.192      | 2 771       | 5          | 30                      | 0.260      | 0.225      | 3 239       | 4          | 30                      | 0.293      | 0.257      | 3 707       | 4          | 30                      |
|        |     | 6          |            |            | 4 156       | 10         | 40                      |            |            | 4 858       | 10         | 40                      |            |            | 5 560       | 9          | 40                      |
|        |     | 8          |            |            | 5 541       | 19         | 48                      |            |            | 6 477       | 17         | 48                      |            |            | 7 413       | 17         | 48                      |
|        |     | 10         |            |            | 6 926       | 29         | 54                      |            |            | 8 096       | 27         | 53                      |            |            | 9 266       | 26         | 54                      |
|        | 700 | 4          | 0.245      | 0.207      | 2 984       | 5          | 30                      | 0.28       | 0.242      | 3 488       | 4          | 30                      | 0.315      | 0.277      | 3 992       | 4          | 30                      |
|        |     | 6          |            |            | 4 476       | 10         | 41                      |            |            | 5 232       | 10         | 40                      |            |            | 5 988       | 9          | 40                      |
|        |     | 8          |            |            | 5 967       | 19         | 48                      |            |            | 6 975       | 17         | 48                      |            |            | 7 983       | 16         | 48                      |
|        |     | 10         |            |            | 7 459       | 29         | 54                      |            |            | 8 719       | 27         | 54                      |            |            | 9 979       | 25         | 53                      |
|        | 800 | 4          | 0.280      | 0.237      | 3 410       | 4          | 30                      | 0.32       | 0.277      | 3 986       | 4          | 30                      | 0.360      | 0.317      | 4 562       | 4          | 29                      |
|        |     | 6          |            |            | 5 115       | 10         | 41                      |            |            | 5 979       | 9          | 41                      |            |            | 6 843       | 9          | 40                      |
|        |     | 8          |            |            | 6 820       | 18         | 48                      |            |            | 7 972       | 17         | 48                      |            |            | 9 124       | 16         | 47                      |
|        |     | 10         |            |            | 8 525       | 28         | 54                      |            |            | 9 965       | 26         | 54                      |            |            | 11 405      | 25         | 53                      |
| 900    | 4   | 0.315      | 0.266      | 3 836      | 4           | 31         | 0.360                   | 0.311      | 4 484      | 6           | 35         | 0.405                   | 0.356      | 5 132      | 4           | 29         |                         |
|        | 6   |            |            | 5 754      | 10          | 41         |                         |            | 6 726      | 12          | 44         |                         |            | 7 698      | 9           | 40         |                         |
|        | 8   |            |            | 7 672      | 18          | 49         |                         |            | 8 968      | 26          | 54         |                         |            | 10 264     | 16          | 47         |                         |
|        | 10  |            |            | 9 590      | 28          | 55         |                         |            | 11 210     | 33.4        | 58         |                         |            | 12 830     | 25          | 53         |                         |
| 1000   | 4   | 0.350      | 0.296      | 4 262      | 4           | 30         | 0.400                   | 0.346      | 4 982      | 4           | 31         | 0.450                   | 0.396      | 5 702      | 4           | 29         |                         |
|        | 6   |            |            | 6 394      | 9           | 41         |                         |            | 7 474      | 9           | 42         |                         |            | 8 554      | 9           | 40         |                         |
|        | 8   |            |            | 8 525      | 17          | 48         |                         |            | 9 965      | 17          | 49         |                         |            | 11 405     | 16          | 47         |                         |
|        | 10  |            |            | 10 656     | 26          | 54         |                         |            | 12 456     | 26          | 55         |                         |            | 14 256     | 25          | 53         |                         |
| 1100   | 4   | 0.385      | 0.326      | 4 689      | 4           | 32         | 0.440                   | 0.381      | 5 481      | 4           | 31         | 0.495                   | 0.436      | 6 273      | 4           | 29         |                         |
|        | 6   |            |            | 7 033      | 10          | 42         |                         |            | 8 221      | 9           | 42         |                         |            | 9 409      | 9           | 39         |                         |
|        | 8   |            |            | 9 377      | 18          | 50         |                         |            | 10 961     | 17          | 49         |                         |            | 12 545     | 15          | 47         |                         |
|        | 10  |            |            | 11 722     | 28          | 56         |                         |            | 13 702     | 26          | 55         |                         |            | 15 682     | 24          | 53         |                         |
| 1200   | 4   | 0.420      | 0.355      | 5 115      | 4           | 31         | 0.480                   | 0.415      | 5 979      | 4           | 31         | 0.540                   | 0.475      | 6 843      | 4           | 29         |                         |
|        | 6   |            |            | 7 672      | 9           | 41         |                         |            | 8 968      | 9           | 42         |                         |            | 10 264     | 9           | 39         |                         |
|        | 8   |            |            | 10 230     | 16          | 49         |                         |            | 11 958     | 16          | 49         |                         |            | 13 686     | 15          | 47         |                         |
|        | 10  |            |            | 12 787     | 25          | 54         |                         |            | 14 947     | 25          | 55         |                         |            | 17 107     | 24          | 53         |                         |
| 1300   | 4   | 0.455      | 0.385      | 5 541      | 4           | 32         | 0.520                   | 0.450      | 6 477      | 4           | 32         | 0.585                   | 0.515      | 7 413      | 4           | 28         |                         |
|        | 6   |            |            | 8 312      | 10          | 43         |                         |            | 9 716      | 9           | 42         |                         |            | 11 120     | 8           | 39         |                         |
|        | 8   |            |            | 11 082     | 17          | 50         |                         |            | 12 954     | 16          | 50         |                         |            | 14 826     | 15          | 46         |                         |
|        | 10  |            |            | 13 853     | 27          | 56         |                         |            | 16 193     | 25          | 55         |                         |            | 18 533     | 23          | 52         |                         |
| 1400   | 4   | 0.490      | 0.414      | 5 967      | 4           | 32         | 0.560                   | 0.484      | 6 975      | 4           | 32         | 0.630                   | 0.554      | 7 983      | 4           | 28         |                         |
|        | 6   |            |            | 8 951      | 10          | 43         |                         |            | 10 463     | 9           | 43         |                         |            | 11 975     | 8           | 39         |                         |
|        | 8   |            |            | 11 935     | 17          | 50         |                         |            | 13 951     | 16          | 50         |                         |            | 15 967     | 15          | 46         |                         |
|        | 10  |            |            | 14 918     | 27          | 56         |                         |            | 17 438     | 25          | 56         |                         |            | 19 958     | 23          | 52         |                         |
| 1500   | 4   | 0.525      | 0.444      | 6 394      | 4           | 32         | 0.600                   | 0.519      | 7 474      | 4           | 32         | 0.675                   | 0.594      | 8 554      | 4           | 28         |                         |
|        | 6   |            |            | 9 590      | 9           | 43         |                         |            | 11 210     | 9           | 43         |                         |            | 12 830     | 8           | 38         |                         |
|        | 8   |            |            | 12 787     | 17          | 50         |                         |            | 14 947     | 16          | 50         |                         |            | 17 107     | 14          | 46         |                         |
|        | 10  |            |            | 15 984     | 26          | 56         |                         |            | 18 684     | 25          | 56         |                         |            | 21 384     | 22          | 51         |                         |



# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |             |            |            |             |            |             |            |            |             |            |             |  |  |
|--------|-----|------------|------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|--|--|
|        |     | 500        |            |            |             |            |             | 550        |            |             |            |             |            | 600        |             |            |             |  |  |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | LWA<br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | LWA<br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | LWA<br>[dB] |  |  |
| B [mm] | 200 | 4          | 0.100      | 0.089      | 1 284       | 6          | 29          | 0.110      | 0.099      | 1 428       | 5          | 29          | 0.120      | 0.109      | 1 572       | 5          | 29          |  |  |
|        |     | 6          |            |            | 1 927       | 13         | 40          |            |            | 2 143       | 12         | 39          |            |            | 2 359       | 12         | 39          |  |  |
|        |     | 8          |            |            | 2 569       | 22         | 47          |            |            | 2 857       | 21         | 47          |            |            | 3 145       | 21         | 47          |  |  |
|        |     | 10         |            |            | 3 211       | 35         | 53          |            |            | 3 571       | 33         | 53          |            |            | 3 931       | 32         | 53          |  |  |
|        | 250 | 4          | 0.125      | 0.112      | 1 606       | 6          | 30          | 0.138      | 0.124      | 1 786       | 5          | 30          | 0.150      | 0.137      | 1 966       | 5          | 30          |  |  |
|        |     | 6          |            |            | 2 408       | 13         | 41          |            |            | 2 678       | 12         | 40          |            |            | 2 948       | 12         | 40          |  |  |
|        |     | 8          |            |            | 3 211       | 22         | 48          |            |            | 3 571       | 21         | 48          |            |            | 3 931       | 21         | 48          |  |  |
|        |     | 10         |            |            | 4 014       | 35         | 54          |            |            | 4 464       | 33         | 53          |            |            | 4 914       | 32         | 54          |  |  |
|        | 300 | 4          | 0.150      | 0.134      | 1 927       | 5          | 30          | 0.165      | 0.149      | 2 143       | 5          | 30          | 0.180      | 0.164      | 2 359       | 5          | 30          |  |  |
|        |     | 6          |            |            | 2 890       | 12         | 41          |            |            | 3 214       | 12         | 41          |            |            | 3 538       | 11         | 40          |  |  |
|        |     | 8          |            |            | 3 853       | 21         | 48          |            |            | 4 285       | 21         | 48          |            |            | 4 717       | 19         | 48          |  |  |
|        |     | 10         |            |            | 4 817       | 33         | 54          |            |            | 5 357       | 32         | 54          |            |            | 5 897       | 30         | 53          |  |  |
|        | 350 | 4          | 0.175      | 0.156      | 2 248       | 5          | 30          | 0.193      | 0.174      | 2 500       | 5          | 31          | 0.210      | 0.191      | 2 752       | 5          | 30          |  |  |
|        |     | 6          |            |            | 3 372       | 12         | 41          |            |            | 3 750       | 12         | 41          |            |            | 4 128       | 10         | 40          |  |  |
|        |     | 8          |            |            | 4 496       | 21         | 48          |            |            | 5 000       | 21         | 49          |            |            | 5 504       | 19         | 48          |  |  |
|        |     | 10         |            |            | 5 620       | 32         | 54          |            |            | 6 250       | 32         | 55          |            |            | 6 880       | 29         | 54          |  |  |
|        | 400 | 4          | 0.200      | 0.178      | 2 569       | 5          | 30          | 0.220      | 0.198      | 2 857       | 5          | 30          | 0.240      | 0.218      | 3 145       | 4          | 30          |  |  |
|        |     | 6          |            |            | 3 853       | 11         | 41          |            |            | 4 285       | 10         | 41          |            |            | 4 717       | 10         | 41          |  |  |
|        |     | 8          |            |            | 5 138       | 19         | 48          |            |            | 5 714       | 19         | 48          |            |            | 6 290       | 18         | 48          |  |  |
|        |     | 10         |            |            | 6 422       | 30         | 54          |            |            | 7 142       | 29         | 54          |            |            | 7 862       | 28         | 54          |  |  |
|        | 450 | 4          | 0.225      | 0.201      | 2 890       | 4          | 29          | 0.248      | 0.223      | 3 214       | 4          | 29          | 0.270      | 0.246      | 3 538       | 4          | 30          |  |  |
|        |     | 6          |            |            | 4 335       | 9          | 39          |            |            | 4 821       | 9          | 40          |            |            | 5 307       | 9          | 40          |  |  |
|        |     | 8          |            |            | 5 780       | 17         | 47          |            |            | 6 428       | 17         | 47          |            |            | 7 076       | 17         | 48          |  |  |
|        |     | 10         |            |            | 7 225       | 26         | 52          |            |            | 8 035       | 26         | 53          |            |            | 8 845       | 26         | 53          |  |  |
|        | 500 | 4          | 0.250      | 0.223      | 3 211       | 4          | 27          | 0.275      | 0.248      | 3 571       | 4          | 29          | 0.300      | 0.273      | 3 931       | 4          | 29          |  |  |
|        |     | 6          |            |            | 4 817       | 8          | 38          |            |            | 5 357       | 9          | 39          |            |            | 5 897       | 9          | 39          |  |  |
|        |     | 8          |            |            | 6 422       | 14         | 45          |            |            | 7 142       | 15         | 47          |            |            | 7 862       | 15         | 47          |  |  |
|        |     | 10         |            |            | 8 028       | 20         | 50          |            |            | 8 928       | 24         | 52          |            |            | 9 828       | 24         | 53          |  |  |
|        | 550 | 4          | 0.275      | 0.245      | 3 853       | 3          | 27          | 0.303      | 0.273      | 4 285       | 4          | 28          | 0.330      | 0.300      | 4 717       | 4          | 28          |  |  |
|        |     | 6          |            |            | 5 780       | 8          | 37          |            |            | 6 428       | 8          | 38          |            |            | 7 076       | 8          | 39          |  |  |
|        |     | 8          |            |            | 7 707       | 13         | 45          |            |            | 8 571       | 14         | 46          |            |            | 9 435       | 14         | 46          |  |  |
|        |     | 10         |            |            | 9 634       | 21         | 51          |            |            | 10 714      | 22         | 52          |            |            | 11 794      | 22         | 52          |  |  |
|        | 600 | 4          | 0.300      | 0.268      | 3 853       | 3          | 27          | 0.330      | 0.298      | 4 285       | 3          | 28          | 0.360      | 0.328      | 4 717       | 3          | 28          |  |  |
|        |     | 6          |            |            | 5 780       | 8          | 38          |            |            | 6 428       | 8          | 38          |            |            | 7 076       | 8          | 39          |  |  |
|        |     | 8          |            |            | 7 707       | 13         | 45          |            |            | 8 571       | 13         | 46          |            |            | 9 435       | 13         | 46          |  |  |
|        |     | 10         |            |            | 9 634       | 21         | 51          |            |            | 10 714      | 21         | 51          |            |            | 11 794      | 21         | 52          |  |  |
|        | 650 | 4          | 0.325      | 0.290      | 4 175       | 4          | 31          | 0.358      | 0.322      | 4 643       | 3          | 28          | 0.390      | 0.355      | 5 111       | 3          | 28          |  |  |
|        |     | 6          |            |            | 6 262       | 10         | 41          |            |            | 6 964       | 8          | 38          |            |            | 7 666       | 8          | 39          |  |  |
|        |     | 8          |            |            | 8 349       | 17         | 49          |            |            | 9 285       | 13         | 46          |            |            | 10 221      | 13         | 46          |  |  |
|        |     | 10         |            |            | 10 436      | 21         | 51          |            |            | 11 606      | 21         | 52          |            |            | 12 776      | 21         | 52          |  |  |
|        | 700 | 4          | 0.350      | 0.312      | 4 496       | 3          | 28          | 0.385      | 0.347      | 5 000       | 3          | 28          | 0.420      | 0.382      | 5 504       | 3          | 29          |  |  |
|        |     | 6          |            |            | 6 744       | 8          | 38          |            |            | 7 500       | 8          | 39          |            |            | 8 256       | 8          | 39          |  |  |
|        |     | 8          |            |            | 8 991       | 13         | 46          |            |            | 9 999       | 13         | 46          |            |            | 11 007      | 13         | 47          |  |  |
|        |     | 10         |            |            | 11 239      | 21         | 52          |            |            | 12 499      | 21         | 52          |            |            | 13 759      | 21         | 52          |  |  |
|        | 800 | 4          | 0.400      | 0.357      | 5 138       | 3          | 28          | 0.440      | 0.397      | 5 714       | 3          | 29          | 0.480      | 0.437      | 6 290       | 3          | 29          |  |  |
|        |     | 6          |            |            | 7 707       | 8          | 39          |            |            | 8 571       | 8          | 39          |            |            | 9 435       | 8          | 40          |  |  |
|        |     | 8          |            |            | 10 276      | 13         | 46          |            |            | 11 428      | 13         | 47          |            |            | 12 580      | 13         | 47          |  |  |
|        |     | 10         |            |            | 12 845      | 21         | 52          |            |            | 14 285      | 21         | 53          |            |            | 15 725      | 21         | 53          |  |  |
| 900    | 4   | 0.450      | 0.401      | 5 780      | 3           | 28         | 0.495       | 0.446      | 6 428      | 3           | 29         | 0.540       | 0.491      | 7 076      | 3           | 30         |             |  |  |
|        | 6   |            |            | 8 670      | 8           | 39         |             |            | 9 642      | 8           | 40         |             |            | 10 614     | 8           | 38         |             |  |  |
|        | 8   |            |            | 11 560     | 13          | 46         |             |            | 12 856     | 13          | 47         |             |            | 14 152     | 13          | 45         |             |  |  |
|        | 10  |            |            | 14 450     | 21          | 52         |             |            | 16 070     | 21          | 53         |             |            | 17 690     | 21          | 51         |             |  |  |
| 1000   | 4   | 0.500      | 0.446      | 6 422      | 3           | 28         | 0.550       | 0.496      | 6 428      | 3           | 30         | 0.600       | 0.546      | 7 862      | 3           | 30         |             |  |  |
|        | 6   |            |            | 9 634      | 8           | 39         |             |            | 9 642      | 8           | 40         |             |            | 11 794     | 8           | 41         |             |  |  |
|        | 8   |            |            | 12 845     | 13          | 46         |             |            | 12 856     | 13          | 48         |             |            | 15 725     | 13          | 48         |             |  |  |
|        | 10  |            |            | 16 056     | 21          | 52         |             |            | 16 070     | 21          | 54         |             |            | 19 656     | 21          | 54         |             |  |  |
| 1100   | 4   | 0.550      | 0.491      | 7 065      | 4           | 29         | 0.605       | 0.546      | 7 857      | 4           | 31         | 0.660       | 0.601      | 8 649      | 3           | 31         |             |  |  |
|        | 6   |            |            | 10 597     | 8           | 39         |             |            | 11 785     | 8           | 41         |             |            | 12 973     | 8           | 41         |             |  |  |
|        | 8   |            |            | 14 129     | 14          | 47         |             |            | 15 713     | 14          | 49         |             |            | 17 297     | 13          | 49         |             |  |  |
|        | 10  |            |            | 17 662     | 22          | 53         |             |            | 19 642     | 22          | 55         |             |            | 21 622     | 21          | 54         |             |  |  |
| 1200   | 4   | 0.600      | 0.535      | 7 707      | 3           | 27         | 0.660       | 0.595      | 8 571      | 3           | 30         | 0.720       | 0.655      | 9 435      | 3           | 30         |             |  |  |
|        | 6   |            |            | 11 560     | 7           | 38         |             |            | 12 856     | 7           | 40         |             |            | 14 152     | 7           | 40         |             |  |  |
|        | 8   |            |            | 15 414     | 13          | 45         |             |            | 17 142     | 13          | 48         |             |            | 18 870     | 12          | 48         |             |  |  |
|        | 10  |            |            | 19 267     | 20          | 51         |             |            | 21 427     | 20          | 54         |             |            | 23 587     | 19          | 54         |             |  |  |
| 1300   | 4   | 0.650      | 0.580      | 8 349      | 3           | 27         | 0.715       | 0.645      | 9 285      | 3           | 30         | 0.780       | 0.710      | 10 221     | 3           | 30         |             |  |  |
|        | 6   |            |            | 12 524     | 7           | 38         |             |            | 13 928     | 7           | 41         |             |            | 15 332     | 7           | 41         |             |  |  |
|        | 8   |            |            | 16 698     | 13          | 45         |             |            | 18 570     | 13          | 48         |             |            | 20 442     | 12          | 48         |             |  |  |
|        | 10  |            |            | 20 873     | 20          | 51         |             |            | 23 213     | 20          | 54         |             |            | 25 553     | 19          | 54         |             |  |  |
| 1400   | 4   | 0.700      | 0.624      | 8 991      | 3           | 27         | 0.770       | 0.694      | 9 999      | 3           | 31         | 0.840       | 0.764      | 11 007     | 3           | 30         |             |  |  |
|        | 6   |            |            | 13 487     | 7           | 38         |             |            | 14 999     | 7           | 41         |             |            | 16 511     | 7           | 41         |             |  |  |
|        | 8   |            |            | 17 983     | 13          | 45         |             |            | 19 999     | 13          | 49         |             |            | 22 015     | 12          | 48         |             |  |  |
|        | 10  |            |            | 22 478     | 20          | 51         |             |            | 24 998     | 20          | 54         |             |            | 27 518     | 19          | 54         |             |  |  |
| 1500   | 4   | 0.750      | 0.669      | 9 634      | 3           | 27         | 0.825       | 0.744      | 10 714     | 3           | 31         | 0.900       | 0.819      | 11 794     | 3           | 31         |             |  |  |
|        | 6   |            |            | 14 450     | 7           | 38         |             |            | 16 070     | 7           | 41         |             |            | 17 690     | 7           | 41         |             |  |  |
|        | 8   |            |            | 19 267     | 13          | 45         |             |            | 21 427     | 13          | 49         |             |            | 23 587     | 12          | 49         |             |  |  |
|        | 10  |            |            | 24 084     | 20          | 51         |             |            | 26 784     | 20          | 55         |             |            | 29 484     | 19          | 54         |             |  |  |

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |  |  |  |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|--|--|--|
|        |     | 650        |            |            |             |            |                         | 700        |            |             |            |                         |            | 750        |             |            |                         |  |  |  |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |  |  |  |
| B [mm] | 200 | 4          | 0.130      | 0.119      | 1 716       | 5          | 29                      | 0.140      | 0.129      | 1 860       | 5          | 29                      | 0.150      | 0.139      | 2 004       | 5          | 29                      |  |  |  |
|        |     | 6          |            |            | 2 575       | 11         | 39                      |            |            | 2 791       | 11         | 40                      |            |            | 3 007       | 11         | 40                      |  |  |  |
|        |     | 8          |            |            | 3 433       | 20         | 47                      |            |            | 3 721       | 20         | 47                      |            |            | 4 009       | 20         | 47                      |  |  |  |
|        |     | 10         |            |            | 4 291       | 31         | 53                      |            |            | 4 651       | 31         | 53                      |            |            | 5 011       | 31         | 53                      |  |  |  |
|        | 250 | 4          | 0.163      | 0.149      | 2 146       | 5          | 30                      | 0.175      | 0.162      | 2 326       | 5          | 30                      | 0.188      | 0.174      | 2 506       | 5          | 30                      |  |  |  |
|        |     | 6          |            |            | 3 218       | 11         | 40                      |            |            | 3 488       | 11         | 41                      |            |            | 3 758       | 11         | 41                      |  |  |  |
|        |     | 8          |            |            | 4 291       | 20         | 48                      |            |            | 4 651       | 20         | 48                      |            |            | 5 011       | 20         | 48                      |  |  |  |
|        |     | 10         |            |            | 5 364       | 31         | 53                      |            |            | 5 814       | 31         | 54                      |            |            | 6 264       | 31         | 54                      |  |  |  |
|        | 300 | 4          | 0.195      | 0.179      | 2 575       | 5          | 30                      | 0.210      | 0.194      | 2 791       | 4          | 29                      | 0.225      | 0.209      | 3 007       | 4          | 30                      |  |  |  |
|        |     | 6          |            |            | 3 862       | 10         | 40                      |            |            | 4 186       | 10         | 40                      |            |            | 4 510       | 10         | 40                      |  |  |  |
|        |     | 8          |            |            | 5 149       | 19         | 48                      |            |            | 5 581       | 18         | 47                      |            |            | 6 013       | 18         | 48                      |  |  |  |
|        |     | 10         |            |            | 6 437       | 29         | 53                      |            |            | 6 977       | 28         | 53                      |            |            | 7 517       | 28         | 54                      |  |  |  |
|        | 350 | 4          | 0.228      | 0.209      | 3 004       | 4          | 30                      | 0.245      | 0.226      | 3 256       | 4          | 30                      | 0.263      | 0.244      | 3 508       | 4          | 30                      |  |  |  |
|        |     | 6          |            |            | 4 506       | 10         | 40                      |            |            | 4 884       | 10         | 40                      |            |            | 5 262       | 10         | 41                      |  |  |  |
|        |     | 8          |            |            | 6 008       | 18         | 48                      |            |            | 6 512       | 17         | 48                      |            |            | 7 016       | 17         | 48                      |  |  |  |
|        |     | 10         |            |            | 7 510       | 28         | 54                      |            |            | 8 140       | 27         | 53                      |            |            | 8 770       | 27         | 54                      |  |  |  |
|        | 400 | 4          | 0.260      | 0.238      | 3 433       | 4          | 30                      | 0.280      | 0.258      | 3 721       | 4          | 30                      | 0.300      | 0.278      | 4 009       | 4          | 31                      |  |  |  |
|        |     | 6          |            |            | 5 149       | 10         | 41                      |            |            | 5 581       | 10         | 41                      |            |            | 6 013       | 10         | 41                      |  |  |  |
|        |     | 8          |            |            | 6 866       | 18         | 48                      |            |            | 7 442       | 17         | 48                      |            |            | 8 018       | 17         | 49                      |  |  |  |
|        |     | 10         |            |            | 8 582       | 28         | 54                      |            |            | 9 302       | 27         | 54                      |            |            | 10 022      | 27         | 54                      |  |  |  |
| 450    | 4   | 0.293      | 0.268      | 3 862      | 4           | 30         | 0.315                   | 0.291      | 4 186      | 4           | 29         | 0.338                   | 0.313      | 4 510      | 4           | 30         |                         |  |  |  |
|        | 6   |            |            | 5 793      | 9           | 40         |                         |            | 6 279      | 9           | 40         |                         |            | 6 765      | 9           | 40         |                         |  |  |  |
|        | 8   |            |            | 7 724      | 17          | 48         |                         |            | 8 372      | 15          | 47         |                         |            | 9 020      | 15          | 48         |                         |  |  |  |
|        | 10  |            |            | 9 655      | 26          | 54         |                         |            | 10 465     | 24          | 53         |                         |            | 11 275     | 24          | 53         |                         |  |  |  |
| 500    | 4   | 0.325      | 0.298      | 4 291      | 4           | 29         | 0.350                   | 0.323      | 4 651      | 4           | 29         | 0.375                   | 0.348      | 5 011      | 4           | 29         |                         |  |  |  |
|        | 6   |            |            | 6 437      | 9           | 40         |                         |            | 6 977      | 8           | 40         |                         |            | 7 517      | 8           | 40         |                         |  |  |  |
|        | 8   |            |            | 8 582      | 15          | 47         |                         |            | 9 302      | 15          | 47         |                         |            | 10 022     | 15          | 47         |                         |  |  |  |
|        | 10  |            |            | 10 728     | 24          | 53         |                         |            | 11 628     | 23          | 53         |                         |            | 12 528     | 23          | 53         |                         |  |  |  |
| 550    | 4   | 0.358      | 0.328      | 5 149      | 4           | 29         | 0.385                   | 0.355      | 5 116      | 4           | 29         | 0.413                   | 0.383      | 5 512      | 4           | 29         |                         |  |  |  |
|        | 6   |            |            | 7 724      | 8           | 39         |                         |            | 7 674      | 8           | 39         |                         |            | 8 268      | 8           | 40         |                         |  |  |  |
|        | 8   |            |            | 10 299     | 14          | 47         |                         |            | 10 233     | 14          | 47         |                         |            | 11 025     | 14          | 47         |                         |  |  |  |
|        | 10  |            |            | 12 874     | 22          | 52         |                         |            | 12 791     | 22          | 53         |                         |            | 13 781     | 22          | 53         |                         |  |  |  |
| 600    | 4   | 0.390      | 0.358      | 5 149      | 3           | 28         | 0.420                   | 0.388      | 5 581      | 3           | 29         | 0.450                   | 0.418      | 6 013      | 3           | 29         |                         |  |  |  |
|        | 6   |            |            | 7 724      | 8           | 39         |                         |            | 8 372      | 8           | 39         |                         |            | 9 020      | 8           | 40         |                         |  |  |  |
|        | 8   |            |            | 10 299     | 13          | 46         |                         |            | 11 163     | 13          | 47         |                         |            | 12 027     | 13          | 47         |                         |  |  |  |
|        | 10  |            |            | 12 874     | 21          | 52         |                         |            | 13 954     | 21          | 53         |                         |            | 15 034     | 21          | 53         |                         |  |  |  |
| 650    | 4   | 0.423      | 0.387      | 5 579      | 3           | 28         | 0.455                   | 0.420      | 6 047      | 3           | 28         | 0.488                   | 0.452      | 6 515      | 3           | 28         |                         |  |  |  |
|        | 6   |            |            | 8 368      | 7           | 39         |                         |            | 9 070      | 7           | 39         |                         |            | 9 772      | 7           | 39         |                         |  |  |  |
|        | 8   |            |            | 11 157     | 13          | 46         |                         |            | 12 093     | 13          | 46         |                         |            | 13 029     | 12          | 46         |                         |  |  |  |
|        | 10  |            |            | 13 946     | 20          | 52         |                         |            | 15 116     | 20          | 52         |                         |            | 16 286     | 19          | 52         |                         |  |  |  |
| 700    | 4   | 0.455      | 0.417      | 6 008      | 3           | 28         | 0.490                   | 0.452      | 6 512      | 3           | 29         | 0.525                   | 0.487      | 7 016      | 3           | 28         |                         |  |  |  |
|        | 6   |            |            | 9 012      | 7           | 39         |                         |            | 9 768      | 7           | 39         |                         |            | 10 524     | 7           | 39         |                         |  |  |  |
|        | 8   |            |            | 12 015     | 13          | 46         |                         |            | 13 023     | 13          | 47         |                         |            | 14 031     | 12          | 46         |                         |  |  |  |
|        | 10  |            |            | 15 019     | 20          | 52         |                         |            | 16 279     | 20          | 53         |                         |            | 17 539     | 19          | 52         |                         |  |  |  |
| 800    | 4   | 0.520      | 0.477      | 6 866      | 3           | 27         | 0.560                   | 0.517      | 7 442      | 4           | 29         | 0.600                   | 0.557      | 8 018      | 3           | 28         |                         |  |  |  |
|        | 6   |            |            | 10 299     | 6           | 38         |                         |            | 11 163     | 7           | 37         |                         |            | 12 027     | 6           | 39         |                         |  |  |  |
|        | 8   |            |            | 13 732     | 12          | 45         |                         |            | 14 884     | 11          | 43         |                         |            | 16 036     | 12          | 46         |                         |  |  |  |
|        | 10  |            |            | 17 165     | 18          | 51         |                         |            | 18 605     | 16          | 47         |                         |            | 20 045     | 18          | 52         |                         |  |  |  |
| 900    | 4   | 0.585      | 0.536      | 7 724      | 3           | 26         | 0.630                   | 0.581      | 8 372      | 3           | 27         | 0.675                   | 0.626      | 9 020      | 3           | 27         |                         |  |  |  |
|        | 6   |            |            | 11 586     | 6           | 36         |                         |            | 12 558     | 6           | 37         |                         |            | 13 530     | 6           | 38         |                         |  |  |  |
|        | 8   |            |            | 15 448     | 10          | 44         |                         |            | 16 744     | 10          | 45         |                         |            | 18 040     | 10          | 45         |                         |  |  |  |
|        | 10  |            |            | 19 310     | 16          | 50         |                         |            | 20 930     | 16          | 51         |                         |            | 22 550     | 16          | 51         |                         |  |  |  |
| 1000   | 4   | 0.650      | 0.596      | 8 582      | 3           | 26         | 0.700                   | 0.646      | 9 302      | 3           | 27         | 0.750                   | 0.696      | 10 022     | 3           | 28         |                         |  |  |  |
|        | 6   |            |            | 12 874     | 6           | 36         |                         |            | 13 954     | 6           | 38         |                         |            | 15 034     | 6           | 38         |                         |  |  |  |
|        | 8   |            |            | 17 165     | 10          | 44         |                         |            | 18 605     | 10          | 45         |                         |            | 20 045     | 10          | 46         |                         |  |  |  |
|        | 10  |            |            | 21 456     | 16          | 50         |                         |            | 23 256     | 16          | 51         |                         |            | 25 056     | 16          | 52         |                         |  |  |  |
| 1100   | 4   | 0.715      | 0.656      | 9 441      | 3           | 29         | 0.770                   | 0.711      | 10 233     | 3           | 31         | 0.825                   | 0.766      | 11 025     | 3           | 28         |                         |  |  |  |
|        | 6   |            |            | 14 161     | 8           | 40         |                         |            | 15 349     | 8           | 42         |                         |            | 16 537     | 8           | 39         |                         |  |  |  |
|        | 8   |            |            | 18 881     | 13          | 47         |                         |            | 20 465     | 13          | 49         |                         |            | 22 049     | 10          | 46         |                         |  |  |  |
|        | 10  |            |            | 23 602     | 21          | 53         |                         |            | 25 582     | 21          | 55         |                         |            | 27 562     | 16          | 52         |                         |  |  |  |
| 1200   | 4   | 0.780      | 0.715      | 10 299     | 3           | 28         | 0.840                   | 0.775      | 11 163     | 3           | 30         | 0.900                   | 0.835      | 12 027     | 2           | 28         |                         |  |  |  |
|        | 6   |            |            | 15 448     | 7           | 39         |                         |            | 16 744     | 7           | 41         |                         |            | 18 040     | 5           | 38         |                         |  |  |  |
|        | 8   |            |            | 20 598     | 12          | 46         |                         |            | 22 326     | 12          | 48         |                         |            | 24 054     | 10          | 46         |                         |  |  |  |
|        | 10  |            |            | 25 747     | 19          | 52         |                         |            | 27 907     | 19          | 54         |                         |            | 30 067     | 15          | 52         |                         |  |  |  |
| 1300   | 4   | 0.845      | 0.775      | 11 157     | 3           | 28         | 0.910                   | 0.840      | 12 093     | 3           | 31         | 0.975                   | 0.905      | 13 029     | 2           | 28         |                         |  |  |  |
|        | 6   |            |            | 16 736     | 7           | 39         |                         |            | 18 140     | 7           | 41         |                         |            | 19 544     | 5           | 39         |                         |  |  |  |
|        | 8   |            |            | 22 314     | 12          | 46         |                         |            | 24 186     | 12          | 49         |                         |            | 26 058     | 10          | 46         |                         |  |  |  |
|        | 10  |            |            | 27 893     | 19          | 52         |                         |            | 30 233     | 19          | 55         |                         |            | 32 573     | 15          | 52         |                         |  |  |  |
| 1400   | 4   | 0.910      | 0.834      | 12 015     | 3           | 28         | 0.980                   | 0.904      | 13 023     | 3           | 31         | 1.050                   | 0.974      | 14 031     | 2           | 28         |                         |  |  |  |
|        | 6   |            |            | 18 023     | 7           | 39         |                         |            | 19 535     | 7           | 42         |                         |            | 21 047     | 5           | 39         |                         |  |  |  |
|        | 8   |            |            | 24 031     | 12          | 46         |                         |            | 26 047     | 12          | 49         |                         |            | 28 063     | 10          | 46         |                         |  |  |  |
|        | 10  |            |            | 30 038     | 19          | 52         |                         |            | 32 558     | 19          | 55         |                         |            | 35 078     | 15          | 52         |                         |  |  |  |
| 1500   | 4   | 0.975      | 0.894      | 12 874     | 3           | 28         | 1.050                   | 0.969      | 13 954     | 3           | 31         | 1.125                   | 1.044      | 15 034     | 3           | 30         |                         |  |  |  |
|        | 6   |            |            | 19 310     | 7           | 39         |                         |            | 20 930     | 7           | 42         |                         |            | 22 550     | 6           | 41         |                         |  |  |  |
|        | 8   |            |            | 25 747     | 12          | 46         |                         |            | 27 907     | 12          | 49         |                         |            | 30 067     | 11          | 48         |                         |  |  |  |
|        | 10  |            |            | 32 184     | 19          | 52         |                         |            | 34 884     | 19          | 55         |                         |            | 37 584     | 17          | 54         |                         |  |  |  |



# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>W/A</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|
|        |     | 800        |            |            |             |            | 850                     |            |            |             |            | 900                     |            |            |             |            |                         |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |
| B [mm] | 200 | 4          | 0.160      | 0.149      | 2 148       | 5          | 29                      | 0.170      | 0.159      | 2 292       | 5          | 29                      | 0.180      | 0.169      | 2 436       | 5          | 30                      |
|        |     | 6          |            |            | 3 223       | 11         | 40                      |            |            | 3 439       | 11         | 40                      |            |            | 3 655       | 11         | 40                      |
|        |     | 8          |            |            | 4 297       | 19         | 47                      |            |            | 4 585       | 19         | 48                      |            |            | 4 873       | 19         | 48                      |
|        |     | 10         |            |            | 5 371       | 30         | 53                      |            |            | 5 731       | 30         | 53                      |            |            | 6 091       | 30         | 54                      |
|        | 250 | 4          | 0.200      | 0.187      | 2 686       | 5          | 30                      | 0.213      | 0.199      | 2 866       | 5          | 30                      | 0.225      | 0.212      | 3 046       | 5          | 31                      |
|        |     | 6          |            |            | 4 028       | 11         | 41                      |            |            | 4 298       | 11         | 41                      |            |            | 4 568       | 11         | 41                      |
|        |     | 8          |            |            | 5 371       | 19         | 48                      |            |            | 5 731       | 19         | 49                      |            |            | 6 091       | 19         | 49                      |
|        |     | 10         |            |            | 6 714       | 30         | 54                      |            |            | 7 164       | 30         | 54                      |            |            | 7 614       | 30         | 55                      |
|        | 300 | 4          | 0.240      | 0.224      | 3 223       | 4          | 30                      | 0.255      | 0.239      | 3 439       | 4          | 30                      | 0.270      | 0.254      | 3 655       | 4          | 30                      |
|        |     | 6          |            |            | 4 834       | 10         | 41                      |            |            | 5 158       | 10         | 41                      |            |            | 5 482       | 10         | 41                      |
|        |     | 8          |            |            | 6 445       | 18         | 48                      |            |            | 6 877       | 18         | 48                      |            |            | 7 309       | 17         | 48                      |
|        |     | 10         |            |            | 8 057       | 28         | 54                      |            |            | 8 597       | 28         | 54                      |            |            | 9 137       | 27         | 54                      |
|        | 350 | 4          | 0.280      | 0.261      | 3 760       | 4          | 30                      | 0.298      | 0.279      | 4 012       | 4          | 31                      | 0.315      | 0.296      | 4 264       | 4          | 30                      |
|        |     | 6          |            |            | 5 640       | 10         | 41                      |            |            | 6 018       | 10         | 41                      |            |            | 6 396       | 9          | 41                      |
|        |     | 8          |            |            | 7 520       | 17         | 48                      |            |            | 8 024       | 17         | 49                      |            |            | 8 528       | 17         | 48                      |
|        |     | 10         |            |            | 9 400       | 27         | 54                      |            |            | 10 030      | 27         | 54                      |            |            | 10 660      | 26         | 54                      |
|        | 400 | 4          | 0.320      | 0.298      | 4 297       | 4          | 31                      | 0.340      | 0.318      | 4 585       | 4          | 31                      | 0.360      | 0.338      | 4 873       | 4          | 30                      |
|        |     | 6          |            |            | 6 445       | 10         | 41                      |            |            | 6 877       | 10         | 42                      |            |            | 7 309       | 9          | 41                      |
|        |     | 8          |            |            | 8 594       | 17         | 49                      |            |            | 9 170       | 17         | 49                      |            |            | 9 746       | 16         | 48                      |
|        |     | 10         |            |            | 10 742      | 27         | 55                      |            |            | 11 462      | 27         | 55                      |            |            | 12 182      | 25         | 54                      |
| 450    | 4   | 0.360      | 0.336      | 4 834      | 4           | 29         | 0.383                   | 0.358      | 5 158      | 4           | 29         | 0.405                   | 0.381      | 5 482      | 3           | 29         |                         |
|        | 6   |            |            | 7 251      | 8           | 39         |                         |            | 7 737      | 8           | 40         |                         |            | 8 223      | 8           | 39         |                         |
|        | 8   |            |            | 9 668      | 14          | 47         |                         |            | 10 316     | 14          | 47         |                         |            | 10 964     | 13          | 47         |                         |
|        | 10  |            |            | 12 085     | 22          | 53         |                         |            | 12 895     | 22          | 53         |                         |            | 13 705     | 21          | 52         |                         |
| 500    | 4   | 0.400      | 0.373      | 5 371      | 4           | 29         | 0.425                   | 0.398      | 5 731      | 4           | 29         | 0.450                   | 0.423      | 6 091      | 3           | 29         |                         |
|        | 6   |            |            | 8 057      | 8           | 40         |                         |            | 8 597      | 8           | 40         |                         |            | 9 137      | 8           | 40         |                         |
|        | 8   |            |            | 10 742     | 14          | 47         |                         |            | 11 462     | 14          | 47         |                         |            | 12 182     | 13          | 47         |                         |
|        | 10  |            |            | 13 428     | 22          | 53         |                         |            | 14 328     | 22          | 53         |                         |            | 15 228     | 21          | 53         |                         |
| 550    | 4   | 0.440      | 0.410      | 5 908      | 3           | 29         | 0.468                   | 0.438      | 6 304      | 3           | 29         | 0.495                   | 0.465      | 6 700      | 3           | 29         |                         |
|        | 6   |            |            | 8 862      | 8           | 40         |                         |            | 9 456      | 8           | 40         |                         |            | 10 050     | 7           | 39         |                         |
|        | 8   |            |            | 11 817     | 13          | 47         |                         |            | 12 609     | 13          | 47         |                         |            | 13 401     | 13          | 47         |                         |
|        | 10  |            |            | 14 771     | 21          | 53         |                         |            | 15 761     | 21          | 53         |                         |            | 16 751     | 20          | 53         |                         |
| 600    | 4   | 0.480      | 0.448      | 6 445      | 3           | 29         | 0.510                   | 0.478      | 6 877      | 3           | 29         | 0.540                   | 0.508      | 7 309      | 3           | 29         |                         |
|        | 6   |            |            | 9 668      | 7           | 39         |                         |            | 10 316     | 7           | 40         |                         |            | 10 964     | 7           | 39         |                         |
|        | 8   |            |            | 12 891     | 13          | 47         |                         |            | 13 755     | 13          | 47         |                         |            | 14 619     | 12          | 47         |                         |
|        | 10  |            |            | 16 114     | 20          | 53         |                         |            | 17 194     | 20          | 53         |                         |            | 18 274     | 19          | 52         |                         |
| 650    | 4   | 0.520      | 0.485      | 6 983      | 3           | 28         | 0.553                   | 0.517      | 7 451      | 3           | 29         | 0.585                   | 0.550      | 7 919      | 3           | 29         |                         |
|        | 6   |            |            | 10 474     | 7           | 39         |                         |            | 11 176     | 7           | 39         |                         |            | 11 878     | 7           | 39         |                         |
|        | 8   |            |            | 13 965     | 12          | 46         |                         |            | 14 901     | 12          | 47         |                         |            | 15 837     | 12          | 47         |                         |
|        | 10  |            |            | 17 456     | 19          | 52         |                         |            | 18 626     | 19          | 53         |                         |            | 19 796     | 19          | 53         |                         |
| 700    | 4   | 0.560      | 0.522      | 7 520      | 3           | 28         | 0.595                   | 0.557      | 8 024      | 3           | 28         | 0.630                   | 0.592      | 8 528      | 3           | 27         |                         |
|        | 6   |            |            | 11 280     | 6           | 39         |                         |            | 12 036     | 6           | 39         |                         |            | 12 792     | 6           | 38         |                         |
|        | 8   |            |            | 15 039     | 12          | 46         |                         |            | 16 047     | 12          | 46         |                         |            | 17 055     | 10          | 45         |                         |
|        | 10  |            |            | 18 799     | 18          | 52         |                         |            | 20 059     | 18          | 52         |                         |            | 21 319     | 16          | 51         |                         |
| 800    | 4   | 0.640      | 0.597      | 8 594      | 3           | 27         | 0.680                   | 0.637      | 9 170      | 3           | 27         | 0.720                   | 0.677      | 9 746      | 3           | 28         |                         |
|        | 6   |            |            | 12 891     | 6           | 38         |                         |            | 13 755     | 6           | 38         |                         |            | 14 619     | 6           | 38         |                         |
|        | 8   |            |            | 17 188     | 10          | 45         |                         |            | 18 340     | 10          | 45         |                         |            | 19 492     | 10          | 46         |                         |
|        | 10  |            |            | 21 485     | 16          | 51         |                         |            | 22 925     | 16          | 51         |                         |            | 24 365     | 16          | 51         |                         |
| 900    | 4   | 0.720      | 0.671      | 9 668      | 3           | 28         | 0.765                   | 0.716      | 10 316     | 3           | 28         | 0.810                   | 0.761      | 10 964     | 3           | 28         |                         |
|        | 6   |            |            | 14 502     | 6           | 38         |                         |            | 15 474     | 6           | 38         |                         |            | 16 446     | 6           | 39         |                         |
|        | 8   |            |            | 19 336     | 10          | 46         |                         |            | 20 632     | 10          | 46         |                         |            | 21 928     | 10          | 46         |                         |
|        | 10  |            |            | 24 170     | 16          | 51         |                         |            | 25 790     | 16          | 52         |                         |            | 27 410     | 16          | 52         |                         |
| 1000   | 4   | 0.800      | 0.746      | 10 742     | 3           | 28         | 0.850                   | 0.796      | 11 462     | 3           | 28         | 0.900                   | 0.846      | 12 182     | 3           | 29         |                         |
|        | 6   |            |            | 16 114     | 6           | 39         |                         |            | 17 194     | 6           | 39         |                         |            | 18 274     | 6           | 39         |                         |
|        | 8   |            |            | 21 485     | 10          | 46         |                         |            | 22 925     | 10          | 46         |                         |            | 24 365     | 10          | 47         |                         |
|        | 10  |            |            | 26 856     | 16          | 52         |                         |            | 28 656     | 16          | 52         |                         |            | 30 456     | 16          | 52         |                         |
| 1100   | 4   | 0.880      | 0.821      | 11 817     | 3           | 28         | 0.935                   | 0.876      | 12 609     | 3           | 29         | 0.990                   | 0.931      | 13 401     | 3           | 29         |                         |
|        | 6   |            |            | 17 725     | 6           | 39         |                         |            | 18 913     | 6           | 39         |                         |            | 20 101     | 6           | 40         |                         |
|        | 8   |            |            | 23 633     | 10          | 46         |                         |            | 25 217     | 10          | 47         |                         |            | 26 801     | 10          | 47         |                         |
|        | 10  |            |            | 29 542     | 16          | 52         |                         |            | 31 522     | 16          | 53         |                         |            | 33 502     | 16          | 53         |                         |
| 1200   | 4   | 0.960      | 0.895      | 12 891     | 2           | 28         | 1.020                   | 0.955      | 13 755     | 2           | 28         | 1.080                   | 1.015      | 14 619     | 2           | 28         |                         |
|        | 6   |            |            | 19 336     | 5           | 39         |                         |            | 20 632     | 5           | 39         |                         |            | 21 928     | 5           | 38         |                         |
|        | 8   |            |            | 25 782     | 10          | 46         |                         |            | 27 510     | 10          | 46         |                         |            | 29 238     | 9           | 46         |                         |
|        | 10  |            |            | 32 227     | 15          | 52         |                         |            | 34 387     | 15          | 52         |                         |            | 36 547     | 14          | 51         |                         |
| 1300   | 4   | 1.040      | 0.970      | 13 965     | 2           | 28         | 1.105                   | 1.035      | 14 901     | 2           | 29         | 1.170                   | 1.100      | 15 837     | 2           | 29         |                         |
|        | 6   |            |            | 20 948     | 5           | 39         |                         |            | 22 352     | 5           | 39         |                         |            | 23 756     | 5           | 39         |                         |
|        | 8   |            |            | 27 930     | 10          | 46         |                         |            | 29 802     | 10          | 47         |                         |            | 31 674     | 10          | 47         |                         |
|        | 10  |            |            | 34 913     | 15          | 52         |                         |            | 37 253     | 15          | 52         |                         |            | 39 593     | 15          | 53         |                         |
| 1400   | 4   | 1.120      | 1.044      | 15 039     | 2           | 29         | 1.190                   | 1.114      | 16 047     | 3           | 30         | 1.260                   | 1.184      | 17 055     | 2           | 28         |                         |
|        | 6   |            |            | 22 559     | 5           | 39         |                         |            | 24 071     | 6           | 40         |                         |            | 25 583     | 5           | 39         |                         |
|        | 8   |            |            | 30 079     | 10          | 47         |                         |            | 32 095     | 10          | 48         |                         |            | 34 111     | 9           | 46         |                         |
|        | 10  |            |            | 37 598     | 15          | 52         |                         |            | 40 118     | 16          | 54         |                         |            | 42 638     | 14          | 52         |                         |
| 1500   | 4   | 1.200      | 1.119      | 16 114     | 3           | 31         | 1.275                   | 1.194      | 17 194     | 3           | 30         | 1.350                   | 1.269      | 18 274     | 2           | 29         |                         |
|        | 6   |            |            | 24 170     | 6           | 41         |                         |            | 25 790     | 6           | 41         |                         |            | 27 410     | 5           | 40         |                         |
|        | 8   |            |            | 32 227     | 11          | 49         |                         |            | 34 387     | 10          | 48         |                         |            | 36 547     | 10          | 48         |                         |
|        | 10  |            |            | 40 284     | 17          | 54         |                         |            | 42 984     | 16          | 54         |                         |            | 45 684     | 15          | 53         |                         |

# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|
|        |     | 1000       |            |            |             |            | 1100                    |            |            |             |            | 1200                    |            |            |             |            |                         |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |
| B [mm] | 200 | 4          | 0.200      | 0.189      | 2 724       | 5          | 30                      | 0.220      | 0.209      | 3 012       | 5          | 30                      | 0.240      | 0.229      | 3 300       | 4          | 30                      |
|        |     | 6          |            |            | 4 087       | 10         | 40                      |            |            | 4 519       | 10         | 41                      |            |            | 4 951       | 10         | 41                      |
|        |     | 8          |            |            | 5 449       | 19         | 48                      |            |            | 6 025       | 19         | 48                      |            |            | 6 601       | 18         | 48                      |
|        |     | 10         |            |            | 6 811       | 29         | 54                      |            |            | 7 531       | 29         | 54                      |            |            | 8 251       | 28         | 54                      |
|        | 250 | 4          | 0.250      | 0.237      | 3 406       | 5          | 31                      | 0.275      | 0.262      | 3 766       | 4          | 31                      | 0.300      | 0.287      | 4 126       | 4          | 31                      |
|        |     | 6          |            |            | 5 108       | 10         | 41                      |            |            | 5 648       | 10         | 41                      |            |            | 6 188       | 10         | 41                      |
|        |     | 8          |            |            | 6 811       | 19         | 49                      |            |            | 7 531       | 18         | 49                      |            |            | 8 251       | 17         | 49                      |
|        |     | 10         |            |            | 8 514       | 29         | 55                      |            |            | 9 414       | 28         | 55                      |            |            | 10 314      | 27         | 55                      |
|        | 300 | 4          | 0.300      | 0.284      | 4 087       | 4          | 31                      | 0.330      | 0.314      | 4 519       | 4          | 31                      | 0.360      | 0.344      | 4 951       | 4          | 31                      |
|        |     | 6          |            |            | 6 130       | 10         | 41                      |            |            | 6 778       | 10         | 42                      |            |            | 7 426       | 9          | 42                      |
|        |     | 8          |            |            | 8 173       | 17         | 49                      |            |            | 9 037       | 17         | 49                      |            |            | 9 901       | 17         | 49                      |
|        |     | 10         |            |            | 10 217      | 27         | 54                      |            |            | 11 297      | 27         | 55                      |            |            | 12 377      | 26         | 55                      |
|        | 350 | 4          | 0.350      | 0.331      | 4 768       | 4          | 31                      | 0.385      | 0.366      | 5 272       | 4          | 31                      | 0.420      | 0.401      | 5 776       | 4          | 31                      |
|        |     | 6          |            |            | 7 152       | 9          | 41                      |            |            | 7 908       | 9          | 42                      |            |            | 8 664       | 9          | 41                      |
|        |     | 8          |            |            | 9 536       | 17         | 49                      |            |            | 10 544      | 17         | 49                      |            |            | 11 552      | 15         | 49                      |
|        |     | 10         |            |            | 11 920      | 26         | 55                      |            |            | 13 180      | 26         | 55                      |            |            | 14 440      | 24         | 54                      |
|        | 400 | 4          | 0.400      | 0.378      | 5 449       | 3          | 28                      | 0.440      | 0.418      | 6 025       | 3          | 28                      | 0.480      | 0.458      | 6 601       | 3          | 29                      |
|        |     | 6          |            |            | 8 173       | 7          | 39                      |            |            | 9 037       | 7          | 39                      |            |            | 9 901       | 7          | 39                      |
|        |     | 8          |            |            | 10 898      | 13         | 46                      |            |            | 12 050      | 13         | 46                      |            |            | 13 202      | 13         | 47                      |
|        |     | 10         |            |            | 13 622      | 20         | 52                      |            |            | 15 062      | 20         | 52                      |            |            | 16 502      | 20         | 53                      |
|        | 450 | 4          | 0.450      | 0.426      | 6 130       | 3          | 28                      | 0.495      | 0.471      | 6 778       | 3          | 29                      | 0.540      | 0.516      | 7 426       | 3          | 29                      |
|        |     | 6          |            |            | 9 195       | 7          | 39                      |            |            | 10 167      | 7          | 39                      |            |            | 11 139      | 7          | 40                      |
|        |     | 8          |            |            | 12 260      | 13         | 47                      |            |            | 13 556      | 13         | 47                      |            |            | 14 852      | 13         | 47                      |
|        |     | 10         |            |            | 15 325      | 20         | 52                      |            |            | 16 945      | 20         | 53                      |            |            | 18 565      | 20         | 53                      |
|        | 500 | 4          | 0.500      | 0.473      | 6 811       | 3          | 29                      | 0.550      | 0.523      | 7 531       | 3          | 29                      | 0.600      | 0.573      | 8 251       | 3          | 30                      |
|        |     | 6          |            |            | 10 217      | 7          | 39                      |            |            | 11 297      | 7          | 40                      |            |            | 12 377      | 7          | 40                      |
|        |     | 8          |            |            | 13 622      | 13         | 47                      |            |            | 15 062      | 13         | 47                      |            |            | 16 502      | 13         | 48                      |
|        |     | 10         |            |            | 17 028      | 20         | 53                      |            |            | 18 828      | 20         | 53                      |            |            | 20 628      | 20         | 54                      |
|        | 550 | 4          | 0.550      | 0.520      | 7 492       | 3          | 29                      | 0.605      | 0.575      | 8 284       | 3          | 30                      | 0.660      | 0.630      | 9 076       | 3          | 30                      |
|        |     | 6          |            |            | 11 238      | 7          | 40                      |            |            | 12 426      | 7          | 40                      |            |            | 13 614      | 7          | 41                      |
|        |     | 8          |            |            | 14 985      | 13         | 47                      |            |            | 16 569      | 13         | 48                      |            |            | 18 153      | 13         | 48                      |
|        |     | 10         |            |            | 18 731      | 20         | 53                      |            |            | 20 711      | 20         | 54                      |            |            | 22 691      | 20         | 54                      |
|        | 600 | 4          | 0.600      | 0.568      | 8 173       | 3          | 29                      | 0.660      | 0.628      | 9 037       | 3          | 29                      | 0.720      | 0.688      | 9 901       | 3          | 29                      |
|        |     | 6          |            |            | 12 260      | 7          | 40                      |            |            | 13 556      | 6          | 39                      |            |            | 14 852      | 6          | 40                      |
|        |     | 8          |            |            | 16 347      | 12         | 47                      |            |            | 18 075      | 12         | 47                      |            |            | 19 803      | 12         | 47                      |
|        |     | 10         |            |            | 20 434      | 19         | 53                      |            |            | 22 594      | 18         | 53                      |            |            | 24 754      | 18         | 53                      |
|        | 650 | 4          | 0.650      | 0.615      | 8 855       | 3          | 29                      | 0.715      | 0.680      | 9 791       | 3          | 29                      | 0.780      | 0.745      | 10 727      | 3          | 30                      |
|        |     | 6          |            |            | 13 282      | 7          | 40                      |            |            | 14 686      | 6          | 40                      |            |            | 16 090      | 6          | 40                      |
|        |     | 8          |            |            | 17 709      | 12         | 47                      |            |            | 19 581      | 12         | 47                      |            |            | 21 453      | 12         | 48                      |
|        |     | 10         |            |            | 22 136      | 19         | 53                      |            |            | 24 476      | 18         | 53                      |            |            | 26 816      | 18         | 53                      |
|        | 700 | 4          | 0.700      | 0.662      | 9 536       | 3          | 27                      | 0.770      | 0.732      | 10 544      | 2          | 27                      | 0.840      | 0.802      | 11 552      | 2          | 27                      |
|        |     | 6          |            |            | 14 304      | 6          | 38                      |            |            | 15 816      | 5          | 38                      |            |            | 17 328      | 5          | 38                      |
|        |     | 8          |            |            | 19 071      | 10         | 46                      |            |            | 21 087      | 10         | 45                      |            |            | 23 103      | 10         | 46                      |
|        |     | 10         |            |            | 23 839      | 16         | 51                      |            |            | 26 359      | 15         | 51                      |            |            | 28 879      | 15         | 51                      |
|        | 800 | 4          | 0.800      | 0.757      | 10 898      | 3          | 28                      | 0.880      | 0.837      | 12 050      | 2          | 28                      | 0.960      | 0.917      | 13 202      | 2          | 28                      |
|        |     | 6          |            |            | 16 347      | 6          | 39                      |            |            | 18 075      | 5          | 38                      |            |            | 19 803      | 5          | 39                      |
|        |     | 8          |            |            | 21 796      | 10         | 46                      |            |            | 24 100      | 10         | 46                      |            |            | 26 404      | 10         | 46                      |
|        |     | 10         |            |            | 27 245      | 16         | 52                      |            |            | 30 125      | 15         | 52                      |            |            | 33 005      | 15         | 52                      |
| 900    | 4   | 0.900      | 0.851      | 12 260     | 3           | 29         | 0.990                   | 0.941      | 13 556     | 3           | 29         | 1.080                   | 1.031      | 14 852     | 2           | 29         |                         |
|        | 6   |            |            | 18 390     | 6           | 39         |                         |            | 20 334     | 6           | 40         |                         |            | 22 278     | 5           | 39         |                         |
|        | 8   |            |            | 24 520     | 10          | 47         |                         |            | 27 112     | 10          | 47         |                         |            | 29 704     | 10          | 47         |                         |
|        | 10  |            |            | 30 650     | 16          | 52         |                         |            | 33 890     | 16          | 53         |                         |            | 37 130     | 15          | 52         |                         |
| 1000   | 4   | 1.000      | 0.946      | 13 622     | 3           | 29         | 1.100                   | 1.046      | 15 062     | 2           | 29         | 1.200                   | 1.146      | 16 502     | 2           | 28         |                         |
|        | 6   |            |            | 20 434     | 6           | 40         |                         |            | 22 594     | 5           | 39         |                         |            | 24 754     | 5           | 39         |                         |
|        | 8   |            |            | 27 245     | 10          | 47         |                         |            | 30 125     | 10          | 47         |                         |            | 33 005     | 9           | 46         |                         |
|        | 10  |            |            | 34 056     | 16          | 53         |                         |            | 37 656     | 15          | 52         |                         |            | 41 256     | 14          | 52         |                         |
| 1100   | 4   | 1.100      | 1.041      | 14 985     | 3           | 29         | 1.210                   | 1.151      | 16 569     | 2           | 29         | 1.320                   | 1.261      | 18 153     | 2           | 29         |                         |
|        | 6   |            |            | 22 477     | 6           | 40         |                         |            | 24 853     | 5           | 40         |                         |            | 27 229     | 5           | 39         |                         |
|        | 8   |            |            | 29 969     | 10          | 48         |                         |            | 33 137     | 10          | 47         |                         |            | 36 305     | 9           | 47         |                         |
|        | 10  |            |            | 37 462     | 16          | 53         |                         |            | 41 422     | 15          | 53         |                         |            | 45 382     | 14          | 52         |                         |
| 1200   | 4   | 1.200      | 1.135      | 16 347     | 2           | 28         | 1.320                   | 1.255      | 18 075     | 10          | 47         | 1.440                   | 1.375      | 19 803     | 2           | 28         |                         |
|        | 6   |            |            | 24 520     | 5           | 39         |                         |            | 27 112     | 22          | 58         |                         |            | 29 704     | 5           | 39         |                         |
|        | 8   |            |            | 32 694     | 9           | 46         |                         |            | 36 150     | 38          | 66         |                         |            | 39 606     | 8           | 46         |                         |
|        | 10  |            |            | 40 867     | 14          | 52         |                         |            | 45 187     | 14          | 52         |                         |            | 49 507     | 13          | 52         |                         |
| 1300   | 4   | 1.300      | 1.230      | 17 709     | 2           | 28         | 1.430                   | 1.360      | 19 581     | 2           | 28         | 1.560                   | 1.490      | 21 453     | 2           | 28         |                         |
|        | 6   |            |            | 26 564     | 5           | 39         |                         |            | 29 372     | 5           | 38         |                         |            | 32 180     | 5           | 39         |                         |
|        | 8   |            |            | 35 418     | 9           | 46         |                         |            | 39 162     | 8           | 46         |                         |            | 42 906     | 8           | 46         |                         |
|        | 10  |            |            | 44 273     | 14          | 52         |                         |            | 48 953     | 13          | 52         |                         |            | 53 633     | 13          | 52         |                         |
| 1400   | 4   | 1.400      | 1.324      | 19 071     | 2           | 29         | 1.540                   | 1.464      | 21 087     | 2           | 28         | 1.680                   | 1.604      | 23 103     | 2           | 28         |                         |
|        | 6   |            |            | 28 607     | 5           | 39         |                         |            | 31 631     | 5           | 39         |                         |            | 34 655     | 4           | 38         |                         |
|        | 8   |            |            | 38 143     | 9           | 47         |                         |            | 42 175     | 8           | 46         |                         |            | 46 207     | 8           | 46         |                         |
|        | 10  |            |            | 47 678     | 14          | 53         |                         |            | 52 718     | 13          | 52         |                         |            | 57 758     | 12          | 51         |                         |
| 1500   | 4   | 1.500      | 1.419      | 20 434     | 2           | 28         | 1.650                   | 1.569      | 22 594     | 2           | 29         | 1.800                   | 1.719      | 24 754     | 2           | 28         |                         |
|        | 6   |            |            | 30 650     | 5           | 39         |                         |            | 33 890     | 5           | 39         |                         |            | 37 130     | 4           | 38         |                         |
|        | 8   |            |            | 40 867     | 8           | 46         |                         |            | 45 187     | 8           | 47         |                         |            | 49 507     | 8           | 46         |                         |
|        | 10  |            |            | 51 084     | 13          | 52         |                         |            | 56 484     | 13          | 52         |                         |            | 61 884     | 12          | 52         |                         |



# COMPUERTAS CORTAFUEGO

## COMPUERTAS CORTAFUEGO RECTANGULARES

**B** – Ancho Nominal [ mm ]

**v** – velocidad [ m/s ]

**Q** – Caudal [ m<sup>3</sup>/h ]

**H** – Alto Nominal [ mm ]

**Sk** – Sección de los conductos [ m<sup>2</sup> ]

**dp** – Caída de Presión [ Pa ]

**Se** – Sección útil de la compuerta [ m<sup>2</sup> ]

**L<sub>WA</sub>** – Nivel de Presión sonora [ dB ]

|        |     | H [mm]     |            |            |             |            |                         |            |            |             |            |                         |            |            |             |            |                         |
|--------|-----|------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|------------|------------|-------------|------------|-------------------------|
|        |     | 1300       |            |            |             |            |                         | 1400       |            |             |            |                         | 1500       |            |             |            |                         |
|        |     | v<br>[m/s] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] | Sk<br>[m²] | Se<br>[m²] | Q<br>[m³/h] | dp<br>[Pa] | L <sub>WA</sub><br>[dB] |
| B [mm] | 200 | 4          | 0.260      | 0.249      | 3 588       | 4          | 30                      | 0.280      | 0.269      | 3 876       | 4          | 29                      | 0.300      | 0.289      | 4 164       | 4          | 29                      |
|        |     | 6          |            |            | 5 383       | 9          | 40                      |            |            | 5 815       | 9          | 40                      |            |            | 6 247       | 9          | 40                      |
|        |     | 8          |            |            | 7 177       | 17         | 48                      |            |            | 7 753       | 16         | 47                      |            |            | 8 329       | 15         | 47                      |
|        |     | 10         |            |            | 8 971       | 26         | 53                      |            |            | 9 691       | 25         | 53                      |            |            | 10 411      | 24         | 53                      |
|        | 250 | 4          | 0.325      | 0.312      | 4 486       | 4          | 31                      | 0.350      | 0.337      | 4 846       | 4          | 30                      | 0.375      | 0.362      | 4 164       | 4          | 30                      |
|        |     | 6          |            |            | 6 728       | 9          | 41                      |            |            | 7 268       | 9          | 40                      |            |            | 6 247       | 8          | 40                      |
|        |     | 8          |            |            | 8 971       | 17         | 49                      |            |            | 9 691       | 15         | 48                      |            |            | 8 329       | 15         | 48                      |
|        |     | 10         |            |            | 11 214      | 26         | 54                      |            |            | 12 114      | 24         | 54                      |            |            | 10 411      | 23         | 53                      |
|        | 300 | 4          | 0.390      | 0.374      | 5 383       | 4          | 31                      | 0.420      | 0.404      | 5 815       | 4          | 31                      | 0.450      | 0.434      | 6 247       | 4          | 30                      |
|        |     | 6          |            |            | 8 074       | 9          | 41                      |            |            | 8 722       | 9          | 41                      |            |            | 9 370       | 8          | 40                      |
|        |     | 8          |            |            | 10 765      | 16         | 49                      |            |            | 11 629      | 15         | 49                      |            |            | 12 493      | 14         | 48                      |
|        |     | 10         |            |            | 13 457      | 25         | 55                      |            |            | 14 537      | 24         | 54                      |            |            | 15 617      | 22         | 54                      |
| 350    | 4   | 0.455      | 0.436      | 6 280      | 4           | 30         | 0.490                   | 0.471      | 6 784      | 3           | 30         | 0.525                   | 0.506      | 7 288      | 3           | 30         |                         |
|        | 6   |            |            | 9 420      | 8           | 41         |                         |            | 10 176     | 8           | 40         |                         |            | 10 932     | 8           | 40         |                         |
|        | 8   |            |            | 12 560     | 15          | 48         |                         |            | 13 568     | 13          | 48         |                         |            | 14 576     | 13          | 48         |                         |
|        | 10  |            |            | 15 700     | 23          | 54         |                         |            | 16 960     | 21          | 53         |                         |            | 18 220     | 21          | 54         |                         |
| 400    | 4   | 0.520      | 0.498      | 7 177      | 3           | 29         | 0.560                   | 0.538      | 7 753      | 3           | 29         | 0.600                   | 0.578      | 8 329      | 3           | 30         |                         |
|        | 6   |            |            | 10 765     | 7           | 40         |                         |            | 11 629     | 7           | 40         |                         |            | 12 493     | 7           | 40         |                         |
|        | 8   |            |            | 14 354     | 13          | 47         |                         |            | 15 506     | 13          | 48         |                         |            | 16 658     | 13          | 48         |                         |
|        | 10  |            |            | 17 942     | 20          | 53         |                         |            | 19 382     | 20          | 53         |                         |            | 20 822     | 20          | 54         |                         |
| 450    | 4   | 0.585      | 0.561      | 8 074      | 3           | 29         | 0.630                   | 0.606      | 8 722      | 3           | 29         | 0.675                   | 0.651      | 9 370      | 3           | 30         |                         |
|        | 6   |            |            | 12 111     | 7           | 40         |                         |            | 13 083     | 7           | 40         |                         |            | 14 055     | 7           | 40         |                         |
|        | 8   |            |            | 16 148     | 12          | 47         |                         |            | 17 444     | 12          | 47         |                         |            | 18 740     | 12          | 48         |                         |
|        | 10  |            |            | 20 185     | 19          | 53         |                         |            | 21 805     | 19          | 53         |                         |            | 23 425     | 19          | 53         |                         |
| 500    | 4   | 0.650      | 0.623      | 8 971      | 3           | 29         | 0.700                   | 0.673      | 9 691      | 3           | 30         | 0.750                   | 0.723      | 10 411     | 3           | 30         |                         |
|        | 6   |            |            | 13 457     | 7           | 40         |                         |            | 14 537     | 7           | 40         |                         |            | 15 617     | 7           | 41         |                         |
|        | 8   |            |            | 17 942     | 12          | 48         |                         |            | 19 382     | 12          | 48         |                         |            | 20 822     | 12          | 48         |                         |
|        | 10  |            |            | 22 428     | 19          | 53         |                         |            | 24 228     | 19          | 54         |                         |            | 26 028     | 19          | 54         |                         |
| 550    | 4   | 0.715      | 0.685      | 9 868      | 3           | 30         | 0.770                   | 0.740      | 10 660     | 3           | 30         | 0.825                   | 0.795      | 11 452     | 3           | 31         |                         |
|        | 6   |            |            | 14 802     | 7           | 40         |                         |            | 15 990     | 7           | 41         |                         |            | 17 178     | 7           | 41         |                         |
|        | 8   |            |            | 19 737     | 12          | 48         |                         |            | 21 321     | 12          | 48         |                         |            | 22 905     | 12          | 49         |                         |
|        | 10  |            |            | 24 671     | 19          | 54         |                         |            | 26 651     | 19          | 54         |                         |            | 28 631     | 19          | 54         |                         |
| 600    | 4   | 0.780      | 0.748      | 10 765     | 3           | 29         | 0.840                   | 0.808      | 11 629     | 3           | 29         | 0.900                   | 0.868      | 12 493     | 3           | 29         |                         |
|        | 6   |            |            | 16 148     | 6           | 39         |                         |            | 17 444     | 6           | 40         |                         |            | 18 740     | 6           | 40         |                         |
|        | 8   |            |            | 21 531     | 11          | 47         |                         |            | 23 259     | 11          | 47         |                         |            | 24 987     | 11          | 48         |                         |
|        | 10  |            |            | 26 914     | 17          | 53         |                         |            | 29 074     | 17          | 53         |                         |            | 31 234     | 17          | 53         |                         |
| 650    | 4   | 0.845      | 0.810      | 11 663     | 3           | 29         | 0.910                   | 0.875      | 12 599     | 3           | 29         | 0.975                   | 0.940      | 13 535     | 3           | 30         |                         |
|        | 6   |            |            | 17 494     | 6           | 40         |                         |            | 18 898     | 6           | 40         |                         |            | 20 302     | 6           | 40         |                         |
|        | 8   |            |            | 23 325     | 11          | 47         |                         |            | 25 197     | 11          | 48         |                         |            | 27 069     | 11          | 48         |                         |
|        | 10  |            |            | 29 156     | 17          | 53         |                         |            | 31 496     | 17          | 53         |                         |            | 33 836     | 17          | 54         |                         |
| 700    | 4   | 0.910      | 0.872      | 12 560     | 2           | 28         | 0.980                   | 0.942      | 13 568     | 2           | 28         | 1.050                   | 1.012      | 14 576     | 2           | 28         |                         |
|        | 6   |            |            | 18 840     | 5           | 38         |                         |            | 20 352     | 5           | 39         |                         |            | 21 864     | 5           | 39         |                         |
|        | 8   |            |            | 25 119     | 10          | 46         |                         |            | 27 135     | 10          | 46         |                         |            | 29 151     | 10          | 47         |                         |
|        | 10  |            |            | 31 399     | 15          | 52         |                         |            | 33 919     | 15          | 52         |                         |            | 36 439     | 15          | 52         |                         |
| 800    | 4   | 1.040      | 0.997      | 14 354     | 2           | 28         | 1.120                   | 1.077      | 15 506     | 2           | 29         | 1.200                   | 1.157      | 16 658     | 2           | 29         |                         |
|        | 6   |            |            | 21 531     | 5           | 39         |                         |            | 23 259     | 5           | 39         |                         |            | 24 987     | 5           | 40         |                         |
|        | 8   |            |            | 28 708     | 10          | 46         |                         |            | 31 012     | 10          | 47         |                         |            | 33 316     | 10          | 47         |                         |
|        | 10  |            |            | 35 885     | 15          | 52         |                         |            | 38 765     | 15          | 53         |                         |            | 41 645     | 15          | 53         |                         |
| 900    | 4   | 1.170      | 1.121      | 16 148     | 2           | 29         | 1.260                   | 1.211      | 17 444     | 2           | 29         | 1.350                   | 1.301      | 18 740     | 2           | 30         |                         |
|        | 6   |            |            | 24 222     | 5           | 39         |                         |            | 26 166     | 5           | 40         |                         |            | 28 110     | 5           | 40         |                         |
|        | 8   |            |            | 32 296     | 10          | 47         |                         |            | 34 888     | 10          | 47         |                         |            | 37 480     | 10          | 48         |                         |
|        | 10  |            |            | 40 370     | 15          | 53         |                         |            | 43 610     | 15          | 53         |                         |            | 46 850     | 15          | 53         |                         |
| 1000   | 4   | 1.300      | 1.246      | 17 942     | 2           | 28         | 1.400                   | 1.346      | 19 382     | 2           | 28         | 1.500                   | 1.446      | 20 822     | 2           | 28         |                         |
|        | 6   |            |            | 26 914     | 5           | 39         |                         |            | 29 074     | 5           | 38         |                         |            | 31 234     | 5           | 39         |                         |
|        | 8   |            |            | 35 885     | 9           | 47         |                         |            | 38 765     | 8           | 46         |                         |            | 41 645     | 8           | 46         |                         |
|        | 10  |            |            | 44 856     | 14          | 52         |                         |            | 48 456     | 13          | 52         |                         |            | 52 056     | 13          | 52         |                         |
| 1100   | 4   | 1.430      | 1.371      | 19 737     | 2           | 29         | 1.540                   | 1.481      | 21 321     | 2           | 27         | 1.650                   | 1.591      | 22 905     | 2           | 26         |                         |
|        | 6   |            |            | 29 605     | 5           | 39         |                         |            | 31 981     | 4           | 38         |                         |            | 34 357     | 4           | 37         |                         |
|        | 8   |            |            | 39 473     | 9           | 47         |                         |            | 42 641     | 8           | 45         |                         |            | 45 809     | 7           | 44         |                         |
|        | 10  |            |            | 49 342     | 14          | 53         |                         |            | 53 302     | 12          | 51         |                         |            | 57 262     | 11          | 50         |                         |
| 1200   | 4   | 1.560      | 1.495      | 21 531     | 2           | 28         | 1.680                   | 1.615      | 23 259     | 2           | 28         | 1.800                   | 1.735      | 24 987     | 2           | 26         |                         |
|        | 6   |            |            | 32 296     | 5           | 39         |                         |            | 34 888     | 4           | 38         |                         |            | 37 480     | 4           | 36         |                         |
|        | 8   |            |            | 43 062     | 8           | 46         |                         |            | 46 518     | 8           | 46         |                         |            | 49 974     | 6           | 44         |                         |
|        | 10  |            |            | 53 827     | 13          | 52         |                         |            | 58 147     | 12          | 51         |                         |            | 62 467     | 10          | 49         |                         |
| 1300   | 4   | 1.690      | 1.620      | 23 325     | 2           | 28         | 1.820                   | 1.750      | 25 197     | 2           | 27         |                         |            |            |             |            |                         |
|        | 6   |            |            | 34 988     | 4           | 38         |                         |            | 37 796     | 4           | 37         |                         |            |            |             |            |                         |
|        | 8   |            |            | 46 650     | 8           | 46         |                         |            | 50 394     | 7           | 45         |                         |            |            |             |            |                         |
|        | 10  |            |            | 58 313     | 12          | 51         |                         |            | 62 993     | 11          | 51         |                         |            |            |             |            |                         |
| 1400   | 4   | 1.820      | 1.744      | 25 119     | 2           | 28         |                         |            |            |             |            |                         |            |            |             |            |                         |
|        | 6   |            |            | 37 679     | 4           | 39         |                         |            |            |             |            |                         |            |            |             |            |                         |
|        | 8   |            |            | 50 239     | 8           | 46         |                         |            |            |             |            |                         |            |            |             |            |                         |
|        | 10  |            |            | 62 798     | 12          | 52         |                         |            |            |             |            |                         |            |            |             |            |                         |