



# SRF SERIES 50 HZ

4"/6" SUBMERSIBLE PUMPS



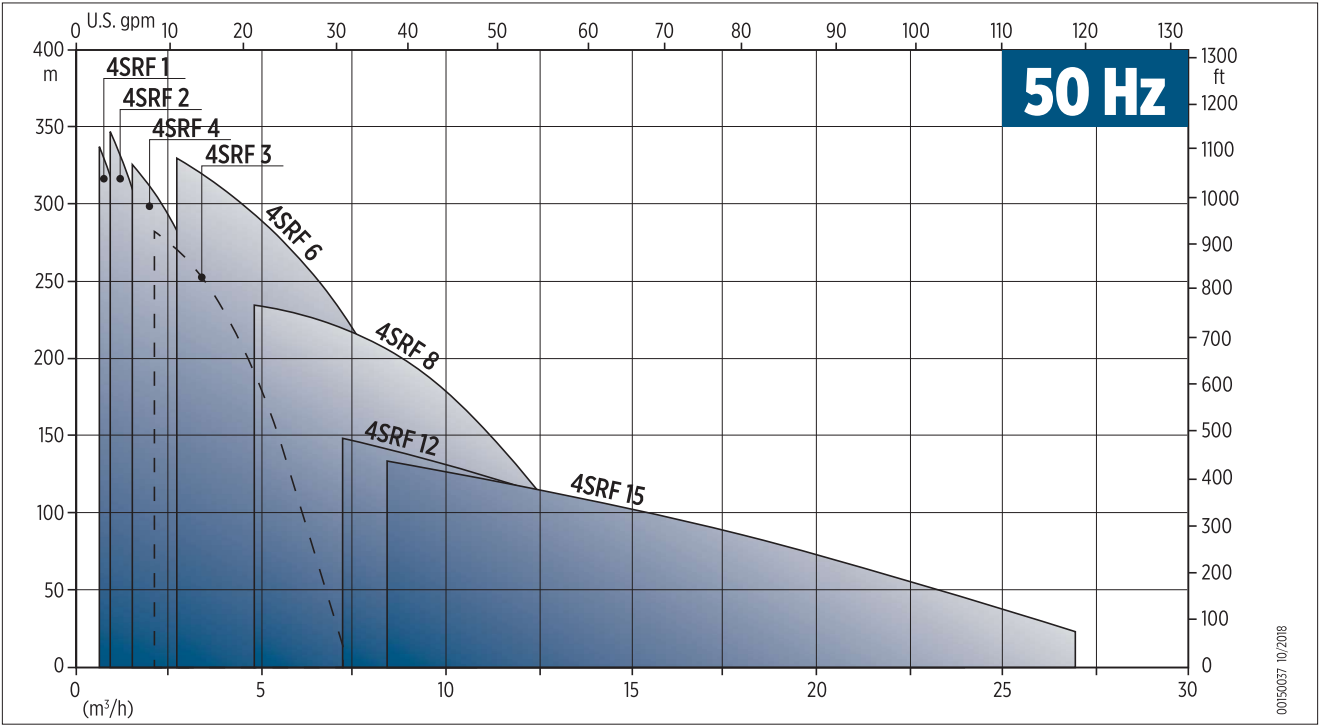
## GENERAL FEATURES 6"

| Model                                          | 6"                                                                                                                                                |          |          |         |         |          |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------|---------|----------|
|                                                | 10                                                                                                                                                | 15       | 21       | 24      | 35      | 45       |
| Nominal flow [m <sup>3</sup> /h]:              | 9                                                                                                                                                 | 13,5     | 21       | 24      | 30      | 42       |
| Liquid temperature range [°C]:                 | 30 °C                                                                                                                                             |          |          |         |         |          |
| Max. ID hydraulic [%]:                         | 65%                                                                                                                                               | 68%      | 68%      | 67%     | 68%     | 58%      |
| Range [m <sup>3</sup> /h]:                     | 3 - 17                                                                                                                                            | 6 - 21   | 9 - 33   | 12 - 36 | 18 - 48 | 24 - 63  |
| Max. head [m]:                                 | 842                                                                                                                                               | 816      | 812      | 704     | 496     | 361      |
| Discharge diameter:                            | 3"                                                                                                                                                |          |          |         |         |          |
| Maximum allowable amount of sand:              | 60 g/m <sup>3</sup>                                                                                                                               |          |          |         |         |          |
| Motor power [kW]:                              | 2.2 - 26                                                                                                                                          | 3.0 - 37 | 1.5 - 45 | 3 - 45  | 3 - 45  | 7.5 - 45 |
| Rotation:                                      | Counter clockwise when looking into the discharge                                                                                                 |          |          |         |         |          |
| Operation:                                     | Continuously in vertical or horizontal position                                                                                                   |          |          |         |         |          |
| Maximum pump diameter (including cable guard): | 140 mm                                                                                                                                            |          |          |         |         |          |
| Motor support:                                 | Supplied for connection to 4" motor (standard NEMA)                                                                                               |          |          |         |         |          |
| Options (on request):                          | Check valve spring loaded for models with less than 19 stages<br>Motor support 6" for models up to 5,5 kW<br>Cooling shroud<br>Double cable guard |          |          |         |         |          |

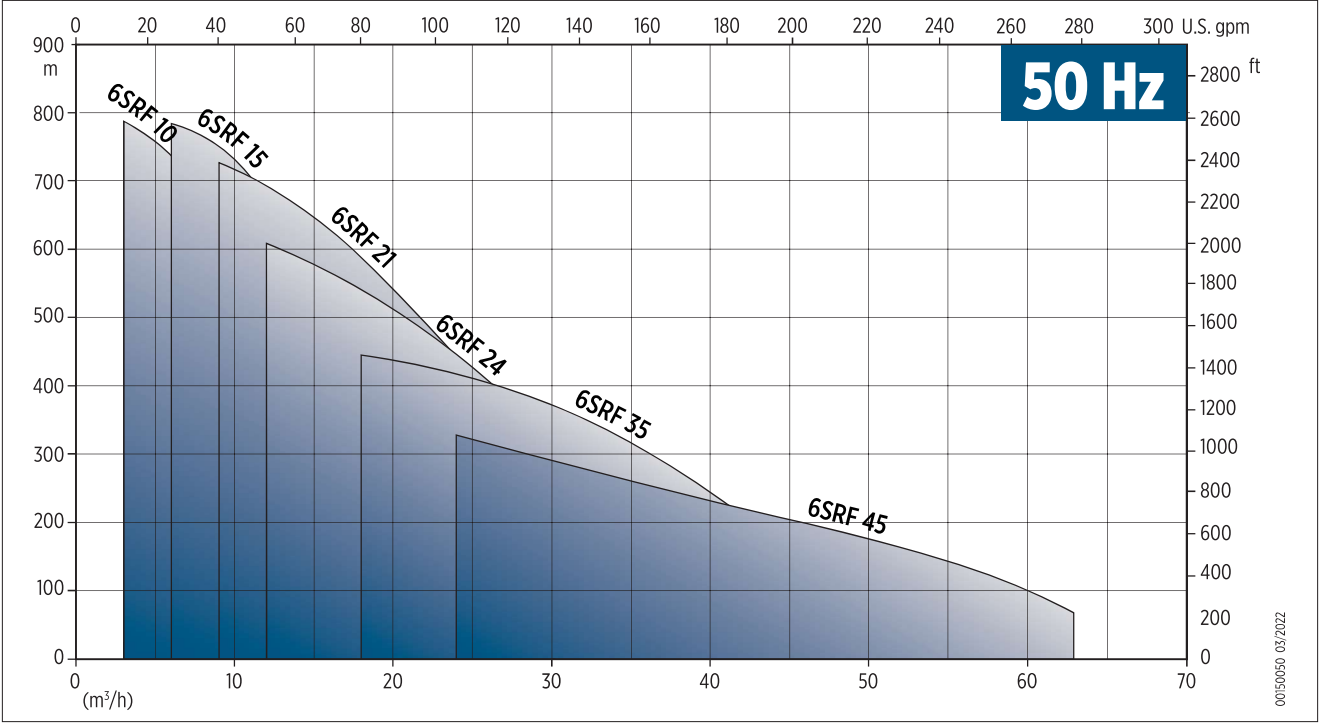
## MOTOR SPECIFICATION

- Motor adapter in compliance with NEMA standard
- For more information consult the product catalog of Submersible motors

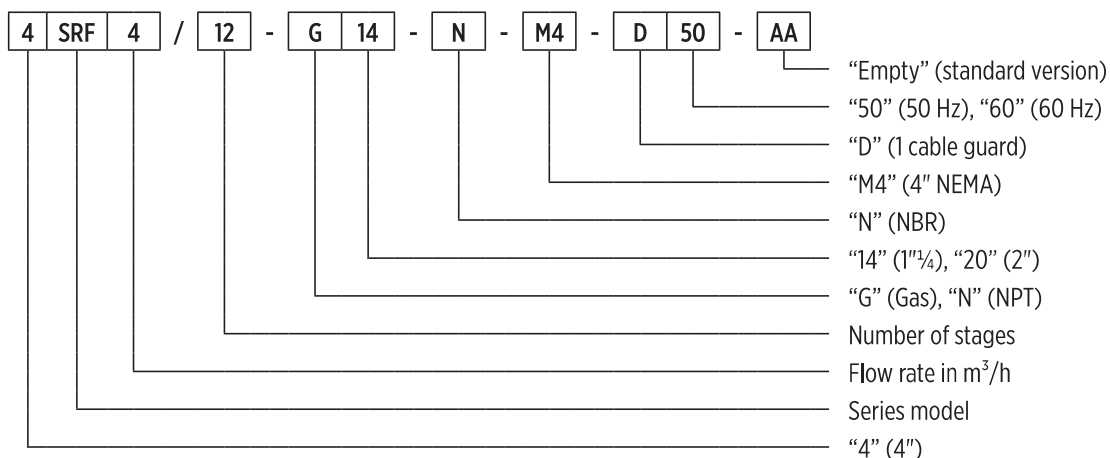
4SRF FAMILY CURVES



6SRF FAMILY CURVES

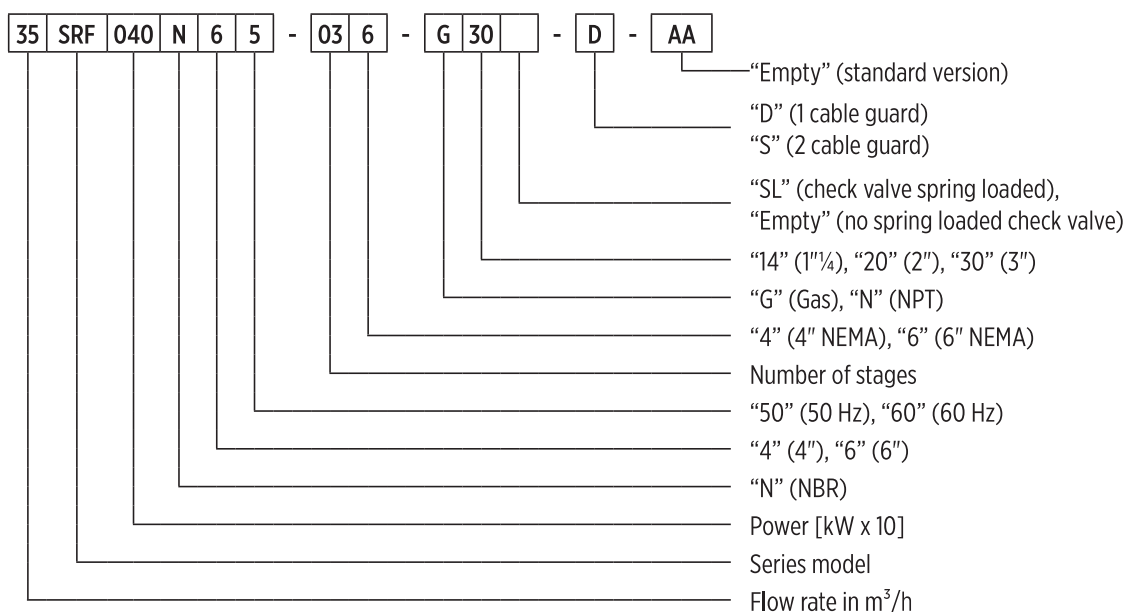


## 4SRF PUMP IDENTIFICATION CODE



00140080 03/2021

## 6SRF PUMP IDENTIFICATION CODE



00140084 03/2022

## PUMP RATING PLATE

|               |       |                       |         |
|---------------|-------|-----------------------|---------|
| <b>FPS</b>    |       | Franklin Electric Srl |         |
| MADE IN ITALY |       | 1                     |         |
| 50Hz          | 3 rpm | H: 5                  | Hmax: 6 |
| eff: 8        | SN: 2 | 4 m <sup>3</sup> /h   |         |
| Part No: 9    |       | 7                     |         |

- 1) Model
- 2) Serial number
- 3) Nominal Rpm
- 4) Delivery range
- 5) Head range
- 6) Maximum head
- 7) MEI index
- 8) Hydraulic efficiency
- 9) Code

# 6SRF 24-35-45

| Pump model | No. stages | RATED POWER |                                      | Q = DELIVERY |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |    |    |
|------------|------------|-------------|--------------------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----|----|
|            |            |             |                                      | m³/h 0       | 6   | 12  | 15  | 18  | 24  | 27  | 30  | 33  | 36  | 39  | 42  | 45  | 48   | 51   | 60   | 63 | 66 |
|            |            | l/min 0     | 100                                  | 200          | 250 | 300 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 1000 | 1050 | 1100 |    |    |
|            | [kW]       | [HP]        | H = TOTAL M.HEAD OF WATER COLUMN [m] |              |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |    |    |
| 6SRF 24    | 03         | 3.0         | 4                                    | 46           |     | 40  | 38  | 35  | 29  | 25  | 21  | 16  | 10  |     |     |     |      |      |      |    |    |
|            | 04         | 4.0         | 5.5                                  | 61           |     | 56  | 50  | 47  | 39  | 33  | 27  | 21  | 13  |     |     |     |      |      |      |    |    |
|            | 06         | 5.5         | 7.5                                  | 92           |     | 79  | 75  | 70  | 58  | 50  | 41  | 31  | 20  |     |     |     |      |      |      |    |    |
|            | 08         | 7.5         | 10                                   | 122          |     | 106 | 100 | 94  | 77  | 67  | 55  | 42  | 27  |     |     |     |      |      |      |    |    |
|            | 10         | 9.2         | 12.5                                 | 153          |     | 132 | 125 | 117 | 97  | 84  | 69  | 52  | 34  |     |     |     |      |      |      |    |    |
|            | 12         | 11.0        | 15                                   | 184          |     | 159 | 150 | 141 | 116 | 100 | 82  | 63  | 40  |     |     |     |      |      |      |    |    |
|            | 14         | 13.0        | 17.5                                 | 214          |     | 185 | 175 | 164 | 135 | 114 | 96  | 73  | 47  |     |     |     |      |      |      |    |    |
|            | 16         | 15.0        | 20                                   | 245          |     | 212 | 200 | 187 | 154 | 134 | 110 | 83  | 54  |     |     |     |      |      |      |    |    |
|            | 20         | 18.5        | 25                                   | 306          |     | 264 | 251 | 234 | 193 | 167 | 137 | 104 | 67  |     |     |     |      |      |      |    |    |
|            | 24         | 22.0        | 30                                   | 267          |     | 317 | 301 | 281 | 232 | 200 | 164 | 125 | 81  |     |     |     |      |      |      |    |    |
|            | 28         | 26.0        | 35                                   | 428          |     | 370 | 351 | 328 | 270 | 234 | 192 | 146 | 94  |     |     |     |      |      |      |    |    |
|            | 32         | 30.0        | 40                                   | 490          |     | 423 | 401 | 375 | 309 | 267 | 219 | 167 | 108 |     |     |     |      |      |      |    |    |
|            | 40         | 37.0        | 50                                   | 612          |     | 529 | 501 | 468 | 386 | 334 | 274 | 208 | 134 |     |     |     |      |      |      |    |    |
|            | 46         | 45.0        | 60                                   | 704          |     | 608 | 576 | 539 | 444 | 384 | 315 | 240 | 155 |     |     |     |      |      |      |    |    |
| Efficiency |            |             |                                      |              | 50% | 56% | 63% | 67% | 65% | 59% | 48% | -   |     |     |     |     |      |      |      |    |    |
| 6SRF 35    | 02         | 3.0         | 4                                    |              |     |     |     | 28  | 26  | 25  | 23  | 21  | 19  | 16  | 13  | 10  | 7    |      |      |    |    |
|            | 03         | 4.0         | 5.5                                  |              |     |     |     | 42  | 39  | 37  | 35  | 32  | 28  | 24  | 20  | 15  | 10   |      |      |    |    |
|            | 04         | 5.5         | 7.5                                  |              |     |     |     | 55  | 52  | 49  | 46  | 42  | 38  | 32  | 26  | 20  | 13   |      |      |    |    |
|            | 05         | 7.5         | 10                                   |              |     |     |     | 69  | 65  | 62  | 58  | 53  | 47  | 40  | 33  | 25  | 17   |      |      |    |    |
|            | 06         | 9.2         | 12.5                                 |              |     |     |     | 83  | 78  | 74  | 70  | 64  | 57  | 48  | 39  | 30  | 20   |      |      |    |    |
|            | 08         | 11.0        | 15                                   |              |     |     |     | 111 | 104 | 99  | 93  | 85  | 76  | 65  | 53  | 40  | 26   |      |      |    |    |
|            | 09         | 13.0        | 17.5                                 |              |     |     |     | 125 | 117 | 111 | 104 | 96  | 85  | 73  | 59  | 45  | 30   |      |      |    |    |
|            | 10         | 15.0        | 20                                   |              |     |     |     | 139 | 130 | 124 | 116 | 106 | 95  | 81  | 66  | 50  | 33   |      |      |    |    |
|            | 13         | 18.5        | 25                                   |              |     |     |     | 180 | 169 | 161 | 151 | 138 | 123 | 105 | 86  | 64  | 43   |      |      |    |    |
|            | 16         | 22.0        | 30                                   |              |     |     |     | 222 | 208 | 198 | 186 | 170 | 151 | 129 | 105 | 79  | 53   |      |      |    |    |
|            | 19         | 26.0        | 35                                   |              |     |     |     | 264 | 246 | 235 | 220 | 202 | 180 | 154 | 125 | 94  | 63   |      |      |    |    |
|            | 22         | 30.0        | 40                                   |              |     |     |     | 305 | 285 | 272 | 255 | 234 | 208 | 178 | 145 | 109 | 73   |      |      |    |    |
|            | 27         | 37.0        | 50                                   |              |     |     |     | 374 | 350 | 334 | 313 | 287 | 255 | 218 | 170 | 134 | 89   |      |      |    |    |
|            | 32         | 45.0        | 60                                   |              |     |     |     | 444 | 415 | 396 | 371 | 340 | 302 | 259 | 211 | 158 | 106  |      |      |    |    |
| Efficiency |            |             |                                      |              |     |     | 54% | 64% | 67% | 68% | 67% | 64% | 60% | 50% | 35% | -   |      |      |      |    |    |
| 6SRF 45    | 04         | 7.5         | 10                                   |              |     |     |     |     | 47  | 45  | 42  | 39  | 36  | 33  | 31  | 28  | 26   | 24   | 14   | 9  |    |
|            | 06         | 9.2         | 12.5                                 |              |     |     |     |     | 70  | 68  | 63  | 58  | 54  | 50  | 46  | 43  | 39   | 36   | 21   | 14 |    |
|            | 07         | 11.0        | 15                                   |              |     |     |     |     | 82  | 79  | 74  | 68  | 63  | 58  | 54  | 50  | 46   | 42   | 25   | 16 |    |
|            | 08         | 13.0        | 17.5                                 |              |     |     |     |     | 93  | 90  | 84  | 78  | 72  | 66  | 61  | 57  | 53   | 48   | 28   | 18 |    |
|            | 09         | 15.0        | 20                                   |              |     |     |     |     | 105 | 101 | 95  | 88  | 81  | 75  | 69  | 64  | 59   | 54   | 32   | 21 |    |
|            | 12         | 18.5        | 25                                   |              |     |     |     |     | 140 | 135 | 126 | 117 | 107 | 99  | 92  | 85  | 79   | 72   | 42   | 28 |    |
|            | 14         | 22.0        | 30                                   |              |     |     |     |     | 163 | 158 | 147 | 136 | 125 | 116 | 108 | 100 | 92   | 84   | 49   | 32 |    |
|            | 17         | 26.0        | 35                                   |              |     |     |     |     | 198 | 191 | 179 | 165 | 152 | 141 | 131 | 121 | 112  | 102  | 60   | 39 |    |
|            | 19         | 30.0        | 40                                   |              |     |     |     |     | 221 | 214 | 200 | 185 | 170 | 157 | 146 | 135 | 125  | 114  | 67   | 44 |    |
|            | 24         | 37.0        | 50                                   |              |     |     |     |     | 280 | 270 | 252 | 234 | 215 | 199 | 184 | 171 | 158  | 144  | 84   | 55 |    |
|            | 28         | 45.0        | 60                                   |              |     |     |     |     | 326 | 315 | 294 | 272 | 251 | 232 | 215 | 199 | 184  | 168  | 98   | 64 |    |
| Efficiency |            |             |                                      |              |     |     |     | 49% | 52% | 55% | 57% | 58% | 58% | 58% | 56% | 53% | 48%  | 30%  | -    |    |    |

Best efficiency point

# 6SRF 35

| Pump model | No. stages | Motor |      |      | Dimensions [mm] |        |        | Diameter [mm] |     |            | Weight [Kg] |       |       |
|------------|------------|-------|------|------|-----------------|--------|--------|---------------|-----|------------|-------------|-------|-------|
|            |            | Type  | [Kw] | [HP] | L1              | L2     | Lt     | Pump (PD)     |     | Motor (MD) | Pump        | Motor | Total |
| 6SRF 35    | 02         | E4 HT | 3    | 4    | 407             | 477.2  | 884.2  | 140           | -   | 95.25      | 7.6         | 17    | 24.6  |
|            | 03         |       | 4    | 5.5  | 467             | 543.2  | 1010.2 | 140           | -   | 95.25      | 8.5         | 20    | 28.5  |
|            | 04         |       | 5.5  | 7.5  | 527             | 625.5  | 1152.5 | 140           | -   | 95.25      | 9.4         | 26.6  | 36    |
|            | 02         | E6    | 4    | 5.5  | 407             | 581.2  | 988.2  | 140           | 143 | 135.52     | 7.6         | 38    | 45.6  |
|            | 03         |       | 4    | 5.5  | 467             | 581.2  | 1048.2 | 140           | 143 | 135.52     | 8.5         | 38    | 46.5  |
|            | 04         |       | 5.5  | 7.5  | 527             | 614.4  | 1141.4 | 140           | 143 | 135.52     | 9.4         | 41    | 50.4  |
|            | 05         |       | 7.5  | 10   | 587             | 646.2  | 1233.2 | 140           | 143 | 135.52     | 10.3        | 44    | 54.3  |
|            | 06         |       | 9.2  | 12.5 | 647             | 678.7  | 1325.7 | 140           | 143 | 135.52     | 11.2        | 47.5  | 58.7  |
|            | 08         |       | 11   | 15   | 767             | 711.2  | 1478.2 | 140           | 143 | 135.52     | 13          | 50    | 63    |
|            | 09         |       | 15   | 20   | 827             | 776.2  | 1603.2 | 140           | 143 | 135.52     | 13.9        | 56    | 69.9  |
|            | 10         |       | 15   | 20   | 887             | 776.2  | 1663.2 | 140           | 143 | 135.52     | 14.8        | 56    | 70.8  |
|            | 13         |       | 18.5 | 25   | 1067            | 841.5  | 1908.5 | 140           | 143 | 135.52     | 17.5        | 63    | 80.5  |
|            | 16         |       | 22   | 30   | 1247            | 906.5  | 2153.5 | 140           | 143 | 135.52     | 20.2        | 68.5  | 88.7  |
|            | 19         |       | 30   | 40   | 1494            | 1036.6 | 2530.6 | 140           | 143 | 135.52     | 25.8        | 83    | 108.8 |
|            | 22         |       | 30   | 40   | 1674            | 1036.6 | 2710.6 | 140           | 143 | 135.52     | 28.7        | 83    | 111.7 |
|            | 27         |       | 37   | 50   | 2162            | 1476.7 | 3638.7 | 140           | 143 | 135.52     | 38.7        | 118   | 156.7 |
|            | 32         |       | 45   | 60   | 2422            | 1629.2 | 4051.2 | 140           | 143 | 135.52     | 46.3        | 130   | 176.3 |
|            | 02         | RW6   | 4    | 5.5  | 407             | 679    | 1086   | 140           | 143 | 142        | 7.6         | 43    | 50.6  |
|            | 03         |       | 4    | 5.5  | 467             | 679    | 1146   | 140           | 143 | 142        | 8.5         | 43    | 51.5  |
|            | 04         |       | 5.5  | 7.5  | 527             | 679    | 1206   | 140           | 143 | 142        | 9.4         | 43    | 52.4  |
|            | 05         |       | 7.5  | 10   | 587             | 699    | 1286   | 140           | 143 | 142        | 10.3        | 45    | 55.3  |
|            | 06         |       | 9.2  | 12.5 | 647             | 729    | 1376   | 140           | 143 | 142        | 11.2        | 49    | 60.2  |
|            | 08         |       | 11   | 15   | 767             | 759    | 1526   | 140           | 143 | 142        | 13          | 53    | 66    |
|            | 09         |       | 13   | 17.5 | 827             | 809    | 1636   | 140           | 143 | 142        | 13.9        | 57    | 70.9  |
|            | 10         |       | 15   | 20   | 887             | 854    | 1741   | 140           | 143 | 142        | 14.8        | 61    | 75.8  |
|            | 13         |       | 18.5 | 25   | 1067            | 899    | 1966   | 140           | 143 | 142        | 17.5        | 66    | 83.5  |
|            | 16         |       | 22   | 30   | 1247            | 989    | 2236   | 140           | 143 | 142        | 20.2        | 77    | 97.2  |
|            | 19         |       | 26   | 35   | 1494            | 1094   | 2588   | 140           | 143 | 142        | 25.8        | 88    | 113.8 |
|            | 22         |       | 30   | 40   | 1674            | 1194   | 2868   | 140           | 143 | 142        | 28.7        | 98    | 126.7 |
|            | 27         |       | 37   | 50   | 2162            | 1274   | 3436   | 140           | 143 | 142        | 38.7        | 105   | 143.7 |

