



## PRODUCT DATASHEET

### RELO® Alu-Substructure joist

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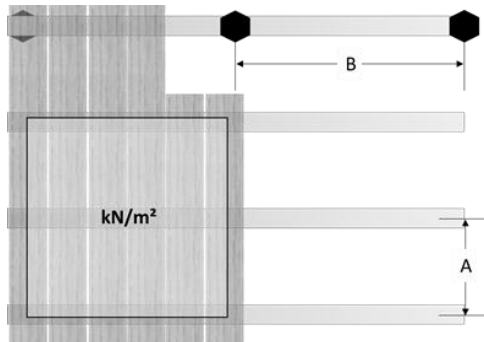


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|                                                            |                                                                                                      |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1. Unique identification code of the product type          | RELO Aluminium substructure joists                                                                   |
| 2. Label for identification of the product                 | Type description: See product packaging                                                              |
| 3. Intended purpose of use                                 | Decking substructure joists                                                                          |
| 4. Manufacturer                                            | FIXINGGROUP GmbH                                                                                     |
| 5. Test method for evaluating and monitoring performance   | three-point bending flexural tests were calculated on a single-span beam with constant loading L/500 |
| 6. Harmonized standard - CE declaration of conformity mark | Not subject to declaration of conformity                                                             |
| 7. Declared performance                                    | According to the table below                                                                         |

|                                                                                                                                                                                                                                                                                                                                       |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| General information                                                                                                                                                                                                                                                                                                                   |                                                                                      |
| 1.1. Material                                                                                                                                                                                                                                                                                                                         | Extruded aluminium profile EN AW-6060 T66 [EN755]                                    |
| 1.2 Surface finish                                                                                                                                                                                                                                                                                                                    | -Aluminium blank finish<br>optionally with black powder coating similar RAL 9005     |
| 1.3 Dimensions                                                                                                                                                                                                                                                                                                                        | According to the table below                                                         |
| 1.4 Calculation of ultimate load capacity kN/m <sup>2</sup><br><br>All values are approximate calculations based on three-point flexural test.<br>The basis of the determined test results was calculated to a single span beam with uniform loading - max. deflection L/500.<br>A - Centre distance<br>B - Distance between supports |  |

#### FOR INTERNAL USE ONLY

All statements are based on our current knowledge and experience - no guarantee can be derived from our statements.

The suitability of the product for a specific application can only be guaranteed by our own tests and trials. Installation is in accordance with the manufacturer's specifications, Tips and tricks, installation instructions, technical rules, guidelines and country-specific regulations. The correct processing and installation of our products is beyond our control and therefore not our responsibility. Errors, modifications of the product range and technical changes are reserved.



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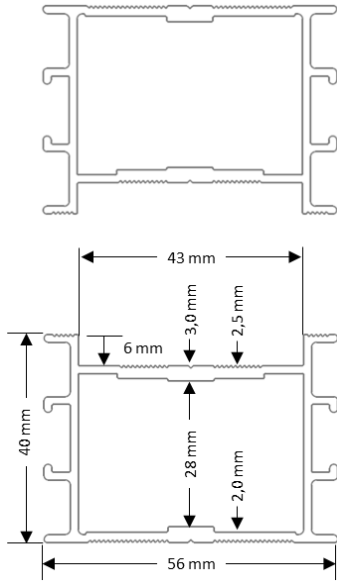
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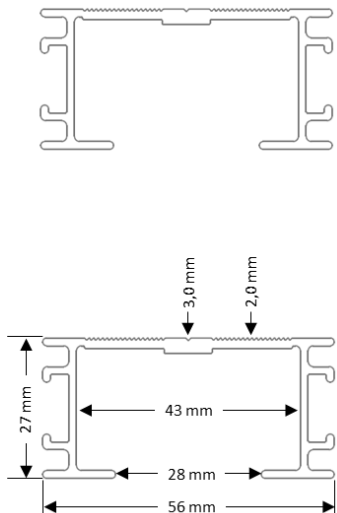
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| RELO W 56<br>B 56 x H 40 mm<br>Design load kN/m <sup>2</sup> |       | Centre distance [A mm] |       |       |       |       |       |       |
|--------------------------------------------------------------|-------|------------------------|-------|-------|-------|-------|-------|-------|
|                                                              |       | 300                    | 350   | 400   | 450   | 500   | 550   | 600   |
| Load bearing support distances [B mm]                        | 400   | 35,94                  | 30,80 | 26,95 | 23,96 | 21,56 | 19,60 | 17,97 |
|                                                              | 450   | 25,24                  | 21,63 | 18,93 | 16,83 | 15,14 | 13,77 | 12,62 |
|                                                              | 500   | 18,40                  | 15,77 | 13,80 | 12,27 | 11,04 | 10,04 | 9,20  |
|                                                              | 550   | 13,82                  | 11,85 | 10,37 | 9,22  | 8,29  | 7,54  | 6,91  |
|                                                              | 600   | 10,65                  | 9,13  | 7,99  | 7,10  | 6,39  | 5,81  | 5,32  |
|                                                              | 650   | 8,37                   | 7,18  | 6,28  | 5,58  | 5,02  | 4,57  | 4,19  |
|                                                              | 700   | 6,71                   | 5,75  | 5,03  | 4,47  | 4,02  | 3,66  | 3,35  |
|                                                              | 750   | 5,45                   | 4,67  | 4,09  | 3,63  | 3,27  | 2,97  | 2,73  |
|                                                              | 800   | 4,49                   | 3,85  | 3,37  | 2,99  | 2,70  | 2,45  | 2,25  |
|                                                              | 850   | 3,75                   | 3,21  | 2,81  | 2,50  | 2,25  | 2,04  | 1,87  |
|                                                              | 900   | 3,15                   | 2,70  | 2,37  | 2,10  | 1,89  | 1,72  | 1,58  |
|                                                              | 950   | 2,68                   | 2,30  | 2,01  | 1,79  | 1,61  | 1,46  | 1,34  |
|                                                              | 1.000 | 2,30                   | 1,97  | 1,72  | 1,53  | 1,38  | 1,25  | 1,15  |
|                                                              | 1.050 | 1,99                   | 1,70  | 1,49  | 1,32  | 1,19  | 1,08  | 0,99  |
|                                                              | 1.100 | 1,73                   | 1,48  | 1,30  | 1,15  | 1,04  | 0,94  | 0,86  |



| RELO C 56<br>B 56 x H 27 mm<br>Design load kN/m <sup>2</sup> |       | Centre distance [A mm] |       |      |      |      |      |      |
|--------------------------------------------------------------|-------|------------------------|-------|------|------|------|------|------|
|                                                              |       | 300                    | 350   | 400  | 450  | 500  | 550  | 600  |
| Load bearing support distances [B mm]                        | 400   | 13,00                  | 11,14 | 9,75 | 8,66 | 7,80 | 7,09 | 6,50 |
|                                                              | 450   | 9,13                   | 7,82  | 6,85 | 6,09 | 5,48 | 4,98 | 4,56 |
|                                                              | 500   | 6,65                   | 5,70  | 4,99 | 4,44 | 3,99 | 3,63 | 3,33 |
|                                                              | 550   | 5,00                   | 4,29  | 3,75 | 3,33 | 3,00 | 2,73 | 2,50 |
|                                                              | 600   | 3,85                   | 3,30  | 2,89 | 2,57 | 2,31 | 2,10 | 1,93 |
|                                                              | 650   | 3,03                   | 2,60  | 2,27 | 2,02 | 1,82 | 1,65 | 1,51 |
|                                                              | 700   | 2,43                   | 2,08  | 1,82 | 1,62 | 1,46 | 1,32 | 1,21 |
|                                                              | 750   | 1,97                   | 1,69  | 1,48 | 1,31 | 1,18 | 1,08 | 0,99 |
|                                                              | 800   | 1,62                   | 1,39  | 1,22 | 1,08 | 0,97 | 0,89 | 0,81 |
|                                                              | 850   | 1,35                   | 1,16  | 1,02 | 0,90 | 0,81 | 0,74 | 0,68 |
|                                                              | 900   | 1,14                   | 0,98  | 0,86 | 0,76 | 0,68 | 0,62 | 0,57 |
|                                                              | 950   | 0,97                   | 0,83  | 0,73 | 0,65 | 0,58 | 0,53 | 0,49 |
|                                                              | 1.000 | 0,83                   | 0,71  | 0,62 | 0,55 | 0,50 | 0,45 | 0,42 |
|                                                              | 1.050 | 0,72                   | 0,62  | 0,54 | 0,48 | 0,43 | 0,39 | 0,36 |
|                                                              | 1.100 | 0,62                   | 0,54  | 0,47 | 0,42 | 0,37 | 0,34 | 0,31 |



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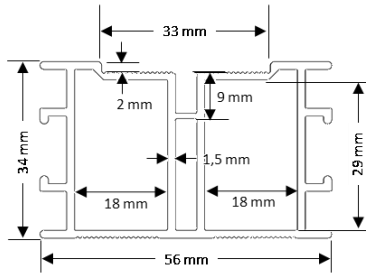
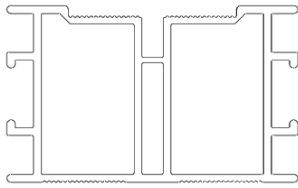
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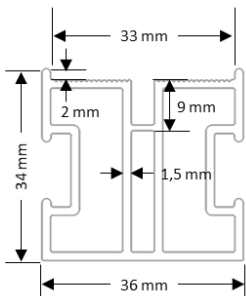
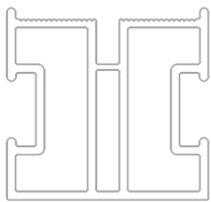
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| RELO N 56<br>B 56 x H 34 mm<br>Design load kN/m <sup>2</sup> |       | Centre distance [A mm] |       |       |       |       |       |       |
|--------------------------------------------------------------|-------|------------------------|-------|-------|-------|-------|-------|-------|
|                                                              |       | 300                    | 350   | 400   | 450   | 500   | 550   | 600   |
| Load bearing support distances [B mm]                        | 400   | 27,54                  | 23,61 | 20,66 | 18,36 | 16,53 | 15,02 | 13,77 |
|                                                              | 450   | 19,34                  | 16,58 | 14,51 | 12,90 | 11,61 | 10,55 | 9,67  |
|                                                              | 500   | 14,10                  | 12,09 | 10,58 | 9,40  | 8,46  | 7,69  | 7,05  |
|                                                              | 550   | 10,59                  | 9,08  | 7,95  | 7,06  | 6,36  | 5,78  | 5,30  |
|                                                              | 600   | 8,16                   | 6,99  | 6,12  | 5,44  | 4,90  | 4,45  | 4,08  |
|                                                              | 650   | 6,42                   | 5,50  | 4,81  | 4,28  | 3,85  | 3,50  | 3,21  |
|                                                              | 700   | 5,14                   | 4,40  | 3,85  | 3,43  | 3,08  | 2,80  | 2,57  |
|                                                              | 750   | 4,18                   | 3,58  | 3,13  | 2,79  | 2,51  | 2,28  | 2,09  |
|                                                              | 800   | 3,44                   | 2,95  | 2,58  | 2,30  | 2,07  | 1,88  | 1,72  |
|                                                              | 850   | 2,87                   | 2,46  | 2,15  | 1,91  | 1,72  | 1,57  | 1,44  |
|                                                              | 900   | 2,42                   | 2,07  | 1,81  | 1,61  | 1,45  | 1,32  | 1,21  |
|                                                              | 950   | 2,06                   | 1,76  | 1,54  | 1,37  | 1,23  | 1,12  | 1,03  |
|                                                              | 1.000 | 1,76                   | 1,51  | 1,32  | 1,18  | 1,06  | 0,96  | 0,88  |
|                                                              | 1.050 | 1,52                   | 1,31  | 1,14  | 1,02  | 0,91  | 0,83  | 0,76  |
|                                                              | 1.100 | 1,32                   | 1,14  | 0,99  | 0,88  | 0,79  | 0,72  | 0,66  |



| RELO N 36<br>B 36 x H 34 mm<br>Design load kN/m <sup>2</sup> |       | Centre distance [A mm] |       |       |       |       |       |      |
|--------------------------------------------------------------|-------|------------------------|-------|-------|-------|-------|-------|------|
|                                                              |       | 300                    | 350   | 400   | 450   | 500   | 550   | 600  |
| Load bearing support distances [B mm]                        | 400   | 19,53                  | 16,74 | 14,65 | 13,02 | 11,72 | 10,65 | 9,77 |
|                                                              | 450   | 13,72                  | 11,76 | 10,29 | 9,15  | 8,23  | 7,48  | 6,86 |
|                                                              | 500   | 10,00                  | 8,57  | 7,50  | 6,67  | 6,00  | 5,46  | 5,00 |
|                                                              | 550   | 7,51                   | 6,44  | 5,64  | 5,01  | 4,51  | 4,10  | 3,76 |
|                                                              | 600   | 5,79                   | 4,96  | 4,34  | 3,86  | 3,47  | 3,16  | 2,89 |
|                                                              | 650   | 4,55                   | 3,90  | 3,41  | 3,03  | 2,73  | 2,48  | 2,28 |
|                                                              | 700   | 3,64                   | 3,12  | 2,73  | 2,43  | 2,19  | 1,99  | 1,82 |
|                                                              | 750   | 2,96                   | 2,54  | 2,22  | 1,98  | 1,78  | 1,62  | 1,48 |
|                                                              | 800   | 2,44                   | 2,09  | 1,83  | 1,63  | 1,47  | 1,33  | 1,22 |
|                                                              | 850   | 2,04                   | 1,74  | 1,53  | 1,36  | 1,22  | 1,11  | 1,02 |
|                                                              | 900   | 1,71                   | 1,47  | 1,29  | 1,14  | 1,03  | 0,94  | 0,86 |
|                                                              | 950   | 1,46                   | 1,25  | 1,09  | 0,97  | 0,87  | 0,80  | 0,73 |
|                                                              | 1.000 | 1,25                   | 1,07  | 0,94  | 0,83  | 0,75  | 0,68  | 0,63 |
|                                                              | 1.050 | 1,08                   | 0,93  | 0,81  | 0,72  | 0,65  | 0,59  | 0,54 |
|                                                              | 1.100 | 0,94                   | 0,81  | 0,70  | 0,63  | 0,56  | 0,51  | 0,47 |



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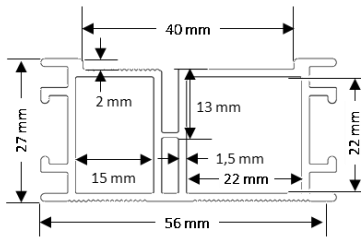
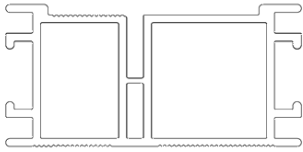
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| RELO T 56<br>B 56 x H 27 mm<br>Design load kN/m <sup>2</sup> |       | Centre distance [A mm] |       |       |       |       |       |      |
|--------------------------------------------------------------|-------|------------------------|-------|-------|-------|-------|-------|------|
|                                                              |       | 300                    | 350   | 400   | 450   | 500   | 550   | 600  |
| Load bearing support distances [B mm]                        | 400   | 19,35                  | 16,58 | 14,51 | 12,90 | 11,61 | 10,55 | 9,67 |
|                                                              | 450   | 13,59                  | 11,65 | 10,19 | 9,06  | 8,15  | 7,41  | 6,79 |
|                                                              | 500   | 9,90                   | 8,49  | 7,43  | 6,60  | 5,94  | 5,40  | 4,95 |
|                                                              | 550   | 7,44                   | 6,38  | 5,58  | 4,96  | 4,47  | 4,06  | 3,72 |
|                                                              | 600   | 5,73                   | 4,91  | 4,30  | 3,82  | 3,44  | 3,13  | 2,87 |
|                                                              | 650   | 4,51                   | 3,86  | 3,38  | 3,01  | 2,71  | 2,46  | 2,25 |
|                                                              | 700   | 3,61                   | 3,09  | 2,71  | 2,41  | 2,17  | 1,97  | 1,80 |
|                                                              | 750   | 2,93                   | 2,52  | 2,20  | 1,96  | 1,76  | 1,60  | 1,47 |
|                                                              | 800   | 2,42                   | 2,07  | 1,81  | 1,61  | 1,45  | 1,32  | 1,21 |
|                                                              | 850   | 2,02                   | 1,73  | 1,51  | 1,34  | 1,21  | 1,10  | 1,01 |
|                                                              | 900   | 1,70                   | 1,46  | 1,27  | 1,13  | 1,02  | 0,93  | 0,85 |
|                                                              | 950   | 1,44                   | 1,24  | 1,08  | 0,96  | 0,87  | 0,79  | 0,72 |
|                                                              | 1.000 | 1,24                   | 1,06  | 0,93  | 0,83  | 0,74  | 0,68  | 0,62 |
|                                                              | 1.050 | 1,07                   | 0,92  | 0,80  | 0,71  | 0,64  | 0,58  | 0,53 |
|                                                              | 1.100 | 0,93                   | 0,80  | 0,70  | 0,62  | 0,56  | 0,51  | 0,47 |