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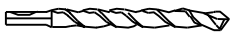
by ALBINI & FONTANOT

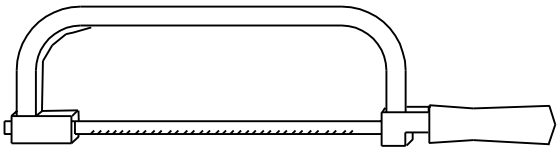
**English** ASSEMBLY INSTRUCTIONS

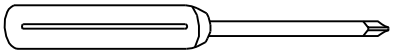
**CIVIK - Sales 01952 216000**

Ø 8x300 12x120 14x150 mm

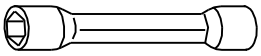


Ø 2.5 3.5 4.5 9 mm

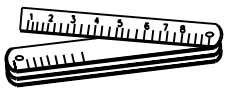


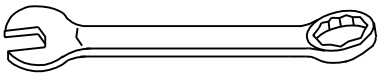


PH 2

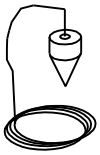


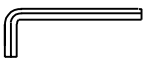
12/13 mm



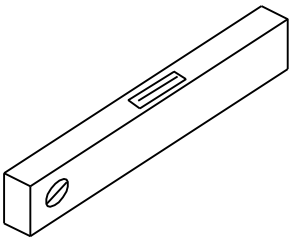


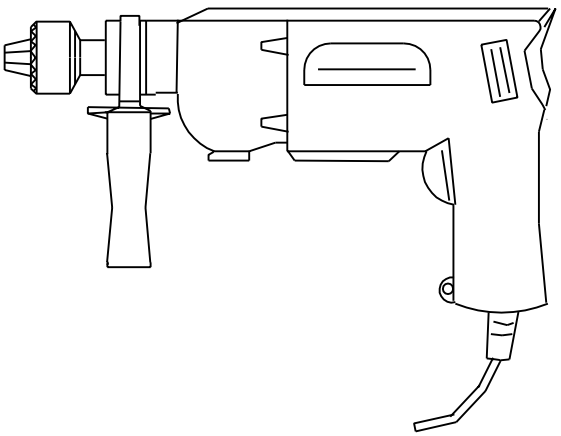
13 17 19 30 mm

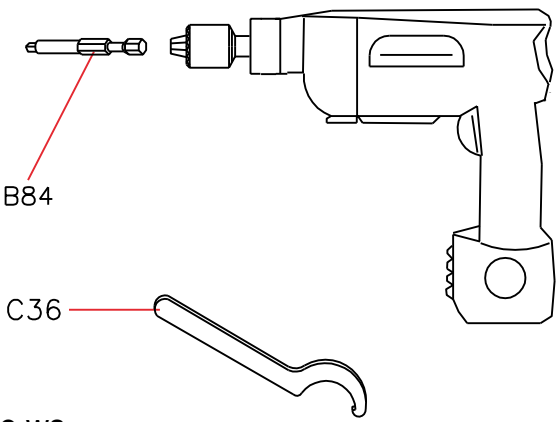




2.5 3 5 12 mm







# English

Before starting the assembly process, unpack all components of the staircase. Lay them out on a large surface and check the quantity of all the pieces, by consulting the table TAB.1 (A = Code, B = Quantity). Inside the staircase box you will also find a DVD which we suggest watching before proceeding to assemble. For the USA only: call the customer support line at 1-888 STAIRKT, should you have any case of need.

### Preliminary Assembly

1. Screw the parts D32 and D33 into the treads (L02) (fig. 2).
2. Carefully measure the floor-to-floor height and determine the required number of spacers (D03) (TAB.2).
3. Assemble the spacers ( D14, D03, D02) together in one piece. Do the same for the spacers (D04, D03, D02) (fig. 1)
4. Assemble the parts B65, B66, B67 into the baluster (C03), by using the part B68 (fig. 3).
5. Assemble the parts B72, B73, B74, B78 into the landing E03, without tightening (fig. 7).
6. Assemble the base G03, B17 and B46 (fig. 1).

### Assembly

7. Determine and mark on the floor the centre of the hole, then position the base (G03+B17+B46) (fig. 4).
8. Drill with drill bit 14 and fix the base (G03+B17+B46) into the floor by means of the parts B13 (fig. 1).
9. Screw the pole (G02) into the base (G03+B17+B46) (fig. 1).
10. Insert the spacers (D14+D03+D02) (fig. 5).
11. Insert the base plate cover (D05) (fig. 5).
12. Insert the first tread (L02) into the pole (G02). Then continue with the assembly, by adding alternatively one spacer (D04+D03+D02) and one tread (L02). At this stage we suggest to position the treads alternately one to the right and one to the left, in order to distribute the weight in a balanced way (fig. 5).
13. When you reach the end of the pole (G02), screw the part B47 on it, then add the second pole (G02) and continue with the stair assembly (fig. 5)
14. When you reach the end of the pole (G02), screw on it the part B46 and the part G01. (Screw the part G01, until its upper end sticks out approximately 15cm (6'') from the stair height (fig. 6). Continue adding the treads, by using the part D01 inserted into the spacers (D04+D03+D02).
15. Finally add the stair landing (E03). Fasten the parts B05, B04 and screw the part B03 sufficiently (fig. 1) but keeping in mind that the treads still have to be rotated to their final position and that the points A and B of the landing (E03) have touch the floor (fig. 8).

### Fitting of the Landing

16. Screw the part B71 into the element B74, making it run till the end. Insert the parts B75, B76, B75 - in this order – and then again the element B71, without tightening too hard (fig. 7).
17. Approach the part B76 to the ceiling. Determine the position, then drill with drill bit 14 and fix completely by using the part B58 (fig. 7).
18. Screw the lower part B71 till the points A, B and C touch the floor (fig. 8).
19. Block the upper part B71 on the part B76 (fig. 7).
20. Finally, block the part B73 (fig. 7).

### Assembly of the Railing

21. Spread-out the treads (L02) fan-like, after having chosen the rotation direction. The stair is now ready to use.
22. Starting from the landing (E03), insert the longer railing balusters (C03), that build the connection between the treads. Face them with the part B65 showing the part with the holes turned upwards (fig. 10). Tighten only the part B02 of the lower tread (fig. 2).
23. Check very carefully the vertical position of the inserted balusters C03. This control is very important for insuring the best results.
24. Tighten the part B03 completely (fig. 10).
25. Tighten the part B02 of the upper treadcompletely (fig. 2).
26. Check once more the vertical position of the railing balusters (C03) and, if necessary, correct it, by repeating the previous operations.
27. Set the first baluster (C03) together with the reinforcing part (F07). Cut one long baluster (C03) to obtain the same size as all others you assembled previously.

28. Fix into the floor in relation to the first baluster (C03), the part F01, by drilling with drill bit 8 tip. Use the parts B11, B12, B83 and B02 (fig. 1).
29. Find the handrail piece marked with letter “M” (A06) and the one with letter “R” (A04) which will be used for the railing of the landing (E03) (fig. 11).
30. Start to model the handrail pieces (A06) marked with “M”, in order to give it the handrial staircase’s shape most alike (fig. 1).
31. Beginning from the baluster (C03) on the landing (E03), start to fix the handrail (A06),that you have already slightly bent in the previous operation. Use the parts B16 together with the screw driver and the item B84.
32. Connect all other handrail pieces (A06), by screwing, glueing and shaping them. Use the parts B33 and the glue (X01).
33. When you reach the first baluster (C03) at the bottom of the stair, cut the excess piece of the handrail with a hacksaw.
34. Complete the handrail (A06) by assembling the part A07. Use the parts B16 and the glue (X01) (fig. 1).
35. Fit all remaining railing balusters into the treads (L02), tighten the part B02 and fix to the handrail (A06), paying attention to the vertical position(for the stairs with a diameter larger than 140cm(4’ 7 1/8”), we suggest that you first assemble the shorter balusters) (fig. 12).
36. Check again the regular shape of the handrail (A06) and, if necessary, correct it with a rubber hammer.
37. Complete the railing assembly by fitting the parts B82 into the lower part of the balusters (C03) (fig. 1).

## Assembly of the Balustrade

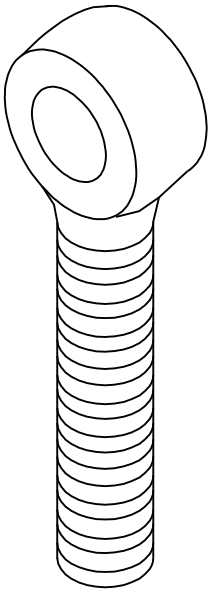
38. Screw the baluster (C04) into the part G01 that sticks out from the landing (E03) (fig. 10).
39. Assemble the parts F01 into the holes of the landing (E03), using the parts B07, B06, B23 (fig. 1).
40. Position the shorter balusters (C03) and tighten the part B02 (fig. 1)
41. Fix the part A05 into the baluster (C04), by using the part B02 (fig. 1).
42. Fix the handrail (A04) marked with the letter “R”, using the parts B16 (fig. 1).
43. In case there were walls around the stair and depending on their position, it could be necessary to set one or two more balusters (C03) (fig. 12).
44. In that case it is necessary to consider either the distance between all other balusters, or otherwise the distance from the wall. For the fixing it is suggested to drill the landing (E03) with drill bit Ø9 and to use the fixing parts F01, B02, B07, B06, B23. Whereas for the fixing into the floor it is suggested to drill with drill bit Ø 12 and to use the parts F01, B02, B87 (fig. 13).

## Final Assembly

45. In order to tighten the staircase at the intermediate points, you must fix into the wall the parts F09 and connect them to the balusters (C03) by using the part F08. Drill the wall with a drill bit 8 and use the parts B85, B86, B11, B12 (fig. 14).
46. Stick the panels (H06) to the treads (L02) using the part B96 (fig. 1).
47. Stick the panels (H03, H04), to the landing (E03) using the part B96 (fig. 1).

# TAB. 1

| A | | B | |
|---|---|---|---|
| | **Ø 120**<br>3’ 11 1/4” | **Ø 140**<br>4’ 7 1/8” | **Ø 160**<br>5’ 3” |
| A04 | 1 | 1 | 1 |
| A05 | 2 | 2 | 2 |
| A06 | 5 | 5 | 5 |
| A07 | 3 | 3 | 3 |
| B02 | 48 | 61 | 62 |
| B03 | 1 | 1 | 1 |
| B04 | 1 | 1 | 1 |
| B05 | 1 | 1 | 1 |
| B06 | 7 | 8 | 9 |
| B07 | 7 | 8 | 9 |
| B11 | 7 | 7 | 10 |
| B12 | 7 | 7 | 10 |
| B13 | 3 | 3 | 3 |
| B16 | 70 | 96 | 98 |
| B17 | 1 | 1 | 1 |
| B23 | 7 | 8 | 9 |
| B33 | 6 | 6 | 6 |
| B46 | 2 | 2 | 2 |
| B47 | 1 | 1 | 1 |
| B58 | 2 | 2 | 2 |
| B65 | 33 | 46 | 47 |
| B66 | 33 | 46 | 47 |
| B67 | 33 | 46 | 47 |
| B68 | 1 | 1 | 1 |
| B71 | 4 | 4 | 4 |
| B72 | 6 | 6 | 6 |
| B73 | 2 | 2 | 2 |
| B74 | 2 | 2 | 2 |
| B75 | 4 | 4 | 4 |
| B76 | 2 | 2 | 2 |
| B78 | 2 | 2 | 2 |
| B82 | 26 | 38 | 38 |
| B83 | 1 | 1 | 1 |
| B84 | 1 | 1 | 1 |
| B85 | 2 | 2 | 3 |
| B86 | 2 | 2 | 3 |
| B87 | 2 | 2 | 2 |
| B96 | 1 | 1 | 1 |
| C03 | 33 | 46 | 47 |
| C04 | 1 | 1 | 1 |
| C13 | 38 | 50 | 50 |
| C36 | 1 | 1 | 1 |
| D01 | 4 | 4 | 4 |
| D02 | 13 | 13 | 13 |
| D03 | 65 | 65 | 65 |
| D04 | 12 | 12 | 12 |
| D05 | 1 | 1 | 1 |
| D14 | 1 | 1 | 1 |
| D32 | 38 | 50 | 50 |
| D33 | 38 | 50 | 50 |
| E03 | 1 | 1 | 1 |
| F01 | 8 | 9 | 10 |
| F07 | 1 | 1 | 1 |
| F08 | 2 | 2 | 3 |
| F09 | 2 | 2 | 3 |
| G01 | 1 | 1 | 1 |
| G02 | 2 | 2 | 2 |
| G03 | 1 | 1 | 1 |
| H01 | 12 | 12 | 12 |
| H03 | 1 | 1 | 1 |
| H04 | 2 | 2 | 2 |
| L02 | 12 | 12 | 12 |
| X01 | 1 | 1 | 1 |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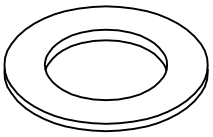
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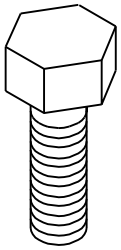
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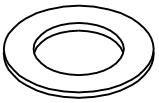
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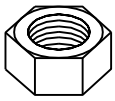
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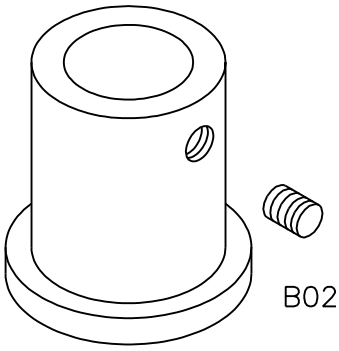
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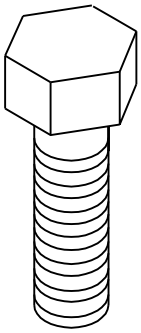
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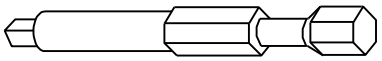
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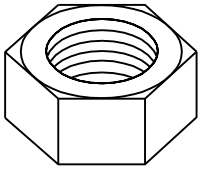
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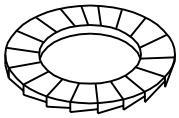
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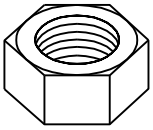
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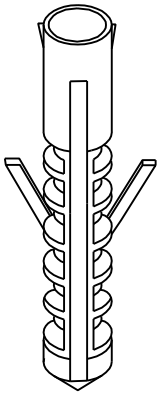
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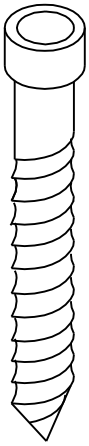
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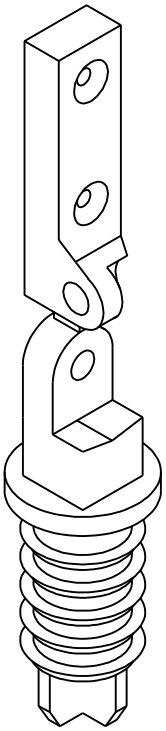
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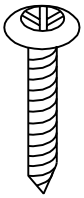
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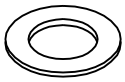
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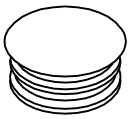
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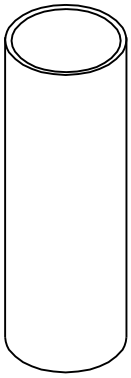
C13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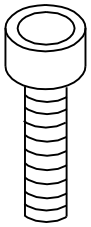
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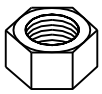
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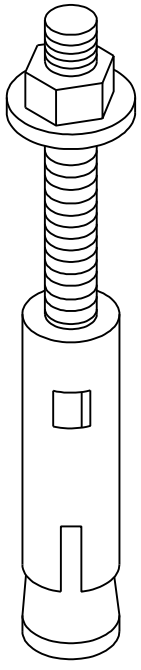
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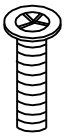
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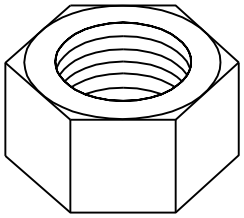
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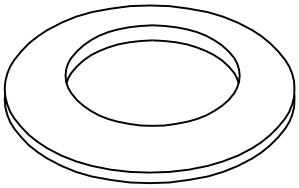
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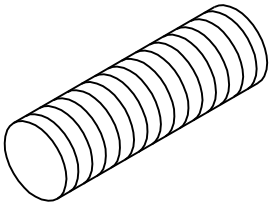

B33

# TAB.2

## Deutsch

Zur Bestimmung der Anzahl der Distanzringe (D03) die TAB. 2 benützen(H = Höhe, A = Stufenhöhen).
Beispiel: für eine abgemessene Fussboden zu Fussbodenhöhe von 298 cm (9’ 9 3/8”) und eine Treppe mit 13 Stufen, wird folgendes benötigt;

1. Bei der Höhenangabe von (298 cm (9’ 9 3/8”), in der Tabelle H), die Anzahl der nötigen Distanzringe ablesen (n° 50 Distanzringe, in der Tabelle A/13)
2. Die Distanzringe (D03) zwischen den Teilen D14-D04 und D02 in der Reihenfolge, einen nach dem andern, bis keiner mehr übrig bleibt, verteilen (in den einzigen Distanzring D14 können höchstens 3 Distanzringe (D03) gelegt werden; in die Distanzrringe D04 können höchstens 5 Distanzringe (D03) gelegt werden).
3. Das Endresultat ist: 3 Distanzringe (D03) zwischen D14 und D02, nochmals 3 Distanzringe (D03) in einen Distanzring nach Wahl zwischen D04 und D02 und 4 Distanzringe (D03) zwischen D04 und D02 zwischen den restlichen Distanzringen.

## English

To determine the necessary number of spacers (D03), you must look-up the table TAB.2 (H = Height, A = Rises).
Example: given a floor-to-floor height of 298cm (9’ 9 3/8”) and a staircase with 13 treads, you must proceed as follows;

1. At height (298cm (9’ 9 3/8”) in the row H) look-up the number of necessary spacers (i.e. 50 spacers in the row A/13)
2. Distribute the spacers (D03), one at a time, among the combined parts D14-D04 and D02 all (for the single spacer D14 you can use at the most 3 spacers (D03); for the spacers (D04) you can use at the most 5 spacers (D03).
3. The final result is the following : 3 spacers (D03) between D14 and D02, 3 more spacers (D03) on a spacer chosen between D04 and D02 and 4 spacers (D03) between D04 and D02 of the remaining eleven spacers.

## Español

Para determinar la cantidad necesaria de discos distanciadores (D03) utilizar la TABLA 2 (H =altura, A = tabicas)
Ejemplo: para una altura de pavimento a pavimento de 298 cm (9’9 3/8”) y una escalera con 13 peldaños es necesario;

1. En la línea de la altura (298 cm (9’ 9 3/8”), en la columna H), leer la cantidad de discos distanciadores necesarios (nº 50 discos, en la columna A/13).
2. Distribuir los discos distanciadores (D03), entre los elementos D14, D04 y D02 uno a la vez, hasta agotarlos (en el único distanciador D14 pueden introducir un máximo de 3 discos (D03); en los distanciadores D04 pueden introducirse un máximo de 5 discos (D03).
3. El resultado es de 3 discos (D03) entre D14 y D02, otros 3 discos (D03) en un distanciador cualquiera entre D04, D02 y 4 discos (D03) entre D04 y D02 en los once distenciadores que quedan.

## Français

Afin de déterminer la quantité nécessaire des entretoises (D03) en employant le TAB. 2 (H = hauteur, A = hauteurs).
Exemple: pour une hauteur sol à sol de 298 cm (9’ 9 3/8”) et un escalier avec 13 marches il faut;

1. Par rapport à la hauteur (298 cm (9’ 9 3/8”), dans la colonne H), lire la quantité des entretoises nécessaires (n° 50 bagues, dans la colonne A/13)
2. Distribuer les entretoises (D03), de suite, parmi les éléments D14-D04 et D02 une par fois, jusqu’à ce qu’elles finissent (sur l’unique entretoise D14 on peut insérer au maximum 3 bagues (D03); sur les entretoises D04 on peut insérer au maximum 5 bagues (D03).
3. Le résultat final est de 3 bagues (D03) parmi D14 et D02, encore 3 bagues (D03) sur une entretoise au choix parmi D04 et D02 et de 4 bagues (D03) parmi D04 et D02 sur les onze entretoises restantes.

## Italiano

Per determinare la quantità necessaria dei dischi distanziatori (D03) utilizzare la TAB. 2 (H = altezza, A = alzate).
Esempio: per un’altezza misurata da pavimento a pavimento di 298 cm (9’ 9 3/8”) e una scala con 13 gradini occorre;

1. In corrispondenza dell’altezza (298 cm (9’ 9 3/8”), nella colonna H), leggere la quantità dei dischi distanziatori necessari (n° 50 dischi, nella colonna A/13)
2. Distribuire i dischi distanziatori (D03), in successione, tra gli elementi D14-D04 e D02 uno per volta, fino al loro esaurimento (sull’unico distanziatore D14 si possono inserire fino ad un massimo di 3 dischi (D03); sui distanziatori D04 si possono inserire fino ad un massimo di 5 dischi (D03).
3. Il risultato finale è di 3 dischi (D03) tra D14 e D02, ancora 3 dischi (D03) su un distanziatore a scelta tra D04 e D02 e di 4 dischi (D03) tra D04 e D02 sugli undici distanziatori rimanenti.

## Nederlands

Om het benodigde aantal tussenstukken (D03) tebepalen, met behulp van TAB.2 (H=hoogte, A= hoogten).
Voorbeeld : voor en hoogte van 298 cm (vloer tot vloer) en een trap van 13 treden, doet men hetvolgende:

1. In functie van de hoogte (298 cm (9' 9 3/8") in de tabel H) leest men het benodigde aantal tussenstukken af (nr.50 ringen, in de tabel A/13).
2. Menverdeelt de tussentukken (D03) tussen de elementen D14-D04-D02. Maximum 3 ringen voor het stuk D14, maximum 5 ringen voor het stuk D04.
3. Het eindresultaat is 3 ringen voor D14 en D02, eveneens 3 ringen voor een tussenstuk D04 en D02 naar keuze en 4 ringen voor de overblijvende tussenstukken D04 en D02.

## Polski

W celu ustalenia koniecznej ilości krążków odległościowych (D03), należy posłużyć się tabelą 2 (H=wysokość, A=podstopień).
Przykład: przy odległości od posadzki do posadzki równej 298 cm (9' 9 3/8") i schodach o 13 stopniach należy:

1. Dla wysokości (298 cm (9' 9 3/8") w kolumnie H), odczytać liczbę koniecznych krążków odległościowych (nr 50 krążków, w kolumnie A/13)
2. Rozdzielić po jednym krążku odległościowym (D03) pomiędzy elementy D14-D04 oraz D02 i powtarzać tę operację aż do wyczerpania krążków (na jedną przekładkę D14 można nałęożyć maksymalnie 3 krążki; z kolei na przekładki D04 można nałożyć maksymalnie 5 krążków (D03).
3. W rezultacie 3 krążki (D03) znajdą się pomiędzy D14 a D02, kolejne 3 krążki (D03) na dowolnie wybranej przekładce D04 lub D02, oraz 4 krążki (D03) pomiędzy D04 a D02 na jedenastu pozostałych przekładkach.

## Português

Para determinar a quantidade necessária dos discos distanciadores (D03) utilizar a TAB. 2 (H = altura, A = altura do degrau).
Exemplo: para uma altura medida de um pavimento ao outro de 298 cm (9’ 9 3/8”) e uma escada com 13 degraus ocorre;

1. Deacordo com a altura (298 cm (9’ 9 3/8”), nella colonna H), ler a quantidade dos discos distanciadores necessários (n° 50 discos, na coluna A/13)

2. Distribuir os discos distanciadores (D03), em suceção, entre os elementos D14-D04 e D02 um por vez, até o esaurimento (em um unico distanciador D14 pode-se inserir até um máximo de 3 discos (D03); nos distanciadores D04 pode-se inserir até um máximo de 5 discos (D03).
3. O resultado final è de 3 discos (D03) entre D14 e D02, ainda 3 discos (D03) em um distanciador a escolha entre D04 e D02 e de 4 discos (D03) entre D04 e D02 nos onze distanciadores remanecentes.

## Hrvatski

Određivanje broja razmaknih elemenata D03
Koristiti TAB. 2 (H = visina gotov pod – gotov pod; A = broj visina (broj gazišta + platforma)
PRIMJER: Za očitanu visinu gotov pod – gotov pod od 298 cm i 13 visina (12 gazišta + platforma) slijedi:
1. Za visinu 298 cm stupac H i za 13 visina očitavamo u stupcu A količinu razmaknih elemenata D03 =50 kom.
2. Raspodijeliti ovu količinu razmaknih elemenata D03 slijedom jedan po jedan između elemenata D14 i D02 i između elemenata D04 i D02 sve dok ih ne raspodijelimo do kraja. Između elemenata D14 i D02 može se umetnuti najviše 3 elementa D03, dok se između elemenata D04 i D02 može umetnuti najviše 5 elemenata D03.
3. Konačna raspodjela je 3 elementa D03 između elemenata D14 i D02, 3 elementa D03 između jednog para elemenata D04 i D02 i 4 elementa D03 između ostalih (11) parova elemenata D04 i D02.

## Slovenščina

Določanje števila razmičnih elementov D03 glejte tabelo 2 (H = višina med dvema končnima talnima ploskvama; A = število višin (število stopnih plošč + podest)
PRIMER: Če je odčitana višina med dvema končnima talnima ploskvama 298 cm pri 13. višinah (12 stopnih plošč + podest) velja:
1. Za višino 289 cm v stolpcu H in za 13 višin v stolpcu A odčitate število distančnikov D03 =50 kom.
2. Odčitano število distančnikov D03 porazdelite enega za drugim med elemente D14 in D02 ter D04 in D02, dokler ne porazdelite vseh. Med elementa D14 in D02 lahko vstavite največ 3 elemente D03, med elementa D04 in D02 pa največ 5 elementov D03.
3. Končna razporeditev je naslednja: 3 elementi D03 med elementoma D14 in D02, trije elementi D03 med enim parom elementov D04 in D02 ter štirje elementi D03 med ostalimi (11) pari elementov D04 in D02.

## Srpski

Određivanje broja razmaknih elemenata D03 koristiti TAB. 2 (H = visina gotov pod – gotov pod; A = broj visina (broj gazišta + platforma)
PRIMER: Za očitanu visinu gotov pod – gotov pod od 298 cm i 13 visina (12 gazišta + platforma) sledi:
1. Za visinu 298 cm kolona H i za 13 visina očitavamo u koloni A količinu razmaknih elemenata D03 =50 kom.
2. Raspodeliti ovu količinu razmaknih elemenata D03 sledom jedan po jedan između elemenata D14 i D02 i između elemenata D04 i D02 sve dok ih ne raspodelimo do kraja. Između elemenata D14 i D02 može se umetnuti najviše 3 elementa D03, dok se između elemenata D04 i D02 može umetnuti najviše 5 elemenata D03.
3. Konačna raspodela je 3 elementa D03 između elemenata D14 i D02, 3 elementa D03 između jednog para elemenata D04 i D02 i 4 elementa D03 između ostalih (11) parova elemenata D04 i D02.

## Česky

Pro určení potřebného množství rozpěrných disků (D03) použijte TAB. 2
(H = výška, A = výšky schodů).
Příklad: pro naměřenou výšku od podlahy k podlaze 298 cm (9’ 9 3/8”) a schodiště o 13 schodnicích je třeba;
1. V řádku odpovídajícímu výšce (298 cm (9’ 9 3/8”) ve sloupci H), vyhledejte množství potřebných rozpěrných disků (ks 50 disků, ve sloupci A/13)
2. Rozmistěte rozpěrné disky (D03), postupně, mezi elementy D14-D04 a D02 po jednom, až do jejich vyčerpání (na jednu rozpěru D14 je možné umístit maximálně 3 disky (D03); na rozpěry D04 je možné umístit maximálně 5 disků (D03).
3. Konečným výsledkem jsou 3 disky (D03) mezi D14 a D02 další 3 disky (D03) na libovolně zvolenou rozpěru mezi D04 a D02 a 4 disky (D03) mezi D04 a D02 na 11 zbývajících rozpěrách.

## Dansk

Afstandsstykkernes (D03) antal fastsættes ved hjælp af tabellen TAB. 2 (H = højde, A = stigning).
Eksempel: ved en gulv til gulv højde på 298 cm (9’ 9 3/8”) og en trappe med 13 trin skal man bruge;
1. I henhold til højden (298 cm (9’ 9 3/8”), i kolonnen H), se det nødvendige antal afstandsskiver (antal 50 skiver, i kolonnen A/13)
2. Fordel afstandsskiverne (D03), efter hinanden, mellem elementerne D14-D04 og D02 en ad gangen, indtil der ikke er flere (på det ene afstandsstykke D14 kan der højest indsættes 3 skiver (D03); på afstandsstykkerne D04 kan der indsættes maksimalt 5 skiver (D03).
3. Det endelige resultat: 3 skiver (D03) mellem D14 og D02, endnu 3 skiver (D03) på et afstandsstykke valgt mellem D04 og D02 og 4 skiver (D03) mellem D04 og D02 på de 11 tilbageblevne afstandsstykker.

## Svenska

För att kunna bestämma nödvändigt antal avståndsbrickor (D03) använd TAB.2 (H= höjd,A= steg).
Exempel: om höjden mätt från golv-till-golv är 298 cm (9’ 3/8”) och trappan har 13 steg gäller följande;
1. Se höjden (298 cm (9’9 3/8”) i kolumn H), läs antal nödvöndigt antal avståndsbrickor (50 st, i kolumn A/13)
2. Distribuera alla brickor (D03), en i taget, mellan delarna D14-D04 och D02 (för den enskilda avståndsdelen D14 kan man använda upp till maximalt 3 brickor (D03); för avståndsdelen D04 kan man använda upp till maximalt 5 brickor (D03).
3. Slutresultatet är följande: 3 brickor (D03) mellan D14 och D02, ytterligare 3 brickor (D03) på antingen avståndsdel D04 eller D02 och 4 brickor (D03) mellan D04 och D02 på de återstående elva avståndsdelarna.

## Suomi

Jotta voisit saada selville mikä on välikelevyjen (D03) tarpeellinen määrä, käytä TAULUKKOA 2 (H = korkeus, A = nousut)
Esimerkki: jos korkeus mitattuna lattiasta lattiaan on 298 cm (9’ 9 3/8”) ja portaissa on 13 askelmaa; tulee menetellä seuraavasti:
1. Korkeuden kohdalta (298 cm (9’ 9 3/8”), sarakkeesta H), tulee lukea tarvittava välikelevyjen määrä (50 kpl. levyjä, sarakkeesta A/13)
2. Seuraavaksi tulee jakaa välikelevyt (D03), toinen toisensa jälkeen, osien D14-D04 ja D02 väliin yksi kerrallaan, kunnes kaikki levyt on käytetty (yhteen välikekappaleeseen D14 voidaan asettaa korkeintaan 3 levyä, (D03); välikekappaleisiin D04 voidaan sen sijaan asettaa korkeintaan 5 levyä (D03).
3. Lopullinen tulos on seuraava: 3 levyä (D03), D14:n ja D02:n välillä , lisäksi 3 levyä (D03) valitsemassasi välikepalassa D04:n ja D02:n välillä ja 4 levyä (D03) D04:n ja D02:n välillä yhdessätoista jäljelläolevassa välikekappaleessa.

# TAB. 2

| | | A | | | | A | | | A | | | | A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | | | | H | | | | H | | | H | | | |
| | 10 | | 11 | | 12 | *KIT* | 13 | | 14 | | 15 | | 16 | | 17 |
| | | | | | | | | | | | | | | | |
| 210 | 0 | | | 252 | 0 | | | 294 | 0 | | | 336 | 0 | | |
| 211 | 2 | | | 253 | 2 | | | 295 | 2 | | | 337 | 2 | | |
| 212 | 4 | | | 254 | 4 | | | 296 | 4 | | | 338 | 4 | | |
| 213 | 6 | | | 255 | 6 | | | 297 | 6 | | | 339 | 6 | | |
| 214 | 8 | | | 256 | 8 | | | 298 | 8 | | | 340 | 8 | | |
| 215 | 10 | | | 257 | 10 | | | 299 | 10 | | | 341 | 10 | | |
| 216 | 12 | | | 258 | 12 | | | 300 | 12 | | | 342 | 12 | | |
| 217 | 14 | | | 259 | 14 | | | 301 | 14 | | | 343 | 14 | | |
| 218 | 16 | | | 260 | 16 | | | 302 | 16 | | | 344 | 16 | | |
| 219 | 18 | | | 261 | 18 | | | 303 | 18 | | | 345 | 18 | | |
| 220 | 20 | | | 262 | 20 | | | 304 | 20 | | | 346 | 20 | | |
| 221 | 22 | | | 263 | 22 | | | 305 | 22 | | | 347 | 22 | | |
| 222 | 24 | | | 264 | 24 | | | 306 | 24 | | | 348 | 24 | | |
| 223 | 26 | | | 265 | 26 | | | 307 | 26 | | | 349 | 26 | | |
| 224 | 28 | | | 266 | 28 | | | 308 | 28 | | | 350 | 28 | | |
| 225 | 30 | | | 267 | 30 | | | 309 | 30 | | | 351 | 30 | | |
| 226 | 32 | | | 268 | 32 | | | 310 | 32 | | | 352 | 32 | | |
| 227 | 34 | | | 269 | 34 | | | 311 | 34 | | | 353 | 34 | | |
| 228 | 36 | | | 270 | 36 | | | 312 | 36 | | | 354 | 36 | | |
| 229 | 38 | | | 271 | 38 | | | 313 | 38 | | | 355 | 38 | | |
| 230 | 40 | | | 272 | 40 | | | 314 | 40 | | | 356 | 40 | | |
| 231 | 42 | | 0 | 273 | 42 | | 0 | 315 | 42 | | 0 | 357 | 42 | | 0 |
| 232 | 44 | | 2 | 274 | 44 | | 2 | 316 | 44 | | 2 | 358 | 44 | | 2 |
| 233 | 46 | | 4 | 275 | 46 | | 4 | 317 | 46 | | 4 | 359 | 46 | | 4 |
| 234 | 48 | | 6 | 276 | 48 | | 6 | 318 | 48 | | 6 | 360 | 48 | | 6 |
| 235 | 50 | | 8 | 277 | 50 | | 8 | 319 | 50 | | 8 | 361 | 50 | | 8 |
| 236 | | | 10 | 278 | 52 | | 10 | 320 | 52 | | 10 | 362 | 52 | | 10 |
| 237 | | | 12 | 279 | 54 | | 12 | 321 | 54 | | 12 | 363 | 54 | | 12 |
| 238 | | | 14 | 280 | 56 | | 14 | 322 | 56 | | 14 | 364 | 56 | | 14 |
| 239 | | | 16 | 281 | 58 | | 16 | 323 | 58 | | 16 | 365 | 58 | | 16 |
| 240 | | | 18 | 282 | 60 | | 18 | 324 | 60 | | 18 | 366 | 60 | | 18 |
| 241 | | | 20 | 283 | | | 20 | 325 | 62 | | 20 | 367 | 62 | | 20 |
| 242 | | | 22 | 284 | | | 22 | 326 | 64 | | 22 | 368 | 64 | | 22 |
| 243 | | | 24 | 285 | | | 24 | 327 | 66 | | 24 | 369 | 66 | | 24 |
| 244 | | | 26 | 286 | | | 26 | 328 | 68 | | 26 | 370 | 68 | | 26 |
| 245 | | | 28 | 287 | | | 28 | 329 | 70 | | 28 | 371 | 70 | | 28 |
| 246 | | | 30 | 288 | | | 30 | 330 | | | 30 | 372 | 72 | | 30 |
| 247 | | | 32 | 289 | | | 32 | 331 | | | 32 | 373 | 74 | | 32 |
| 248 | | | 34 | 290 | | | 34 | 332 | | | 34 | 374 | 76 | | 34 |
| 249 | | | 36 | 291 | | | 36 | 333 | | | 36 | 375 | 78 | | 36 |
| 250 | | | 38 | 292 | | | 38 | 334 | | | 38 | 376 | 80 | | 38 |
| 251 | | | 40 | 293 | | | 40 | 335 | | | 40 | 377 | | | 40 |
| 252 | | | 42 | 294 | | | 42 | 336 | | | 42 | 378 | | | 42 |
| 253 | | | 44 | 295 | | | 44 | 337 | | | 44 | 379 | | | 44 |
| 254 | | | 46 | 296 | | | 46 | 338 | | | 46 | 380 | | | 46 |
| 255 | | | 48 | 297 | | | 48 | 339 | | | 48 | 381 | | | 48 |
| 256 | | | 50 | 298 | | | 50 | 340 | | | 50 | 382 | | | 50 |
| 257 | | | 52 | 299 | | | 52 | 341 | | | 52 | 383 | | | 52 |
| 258 | | | 54 | 300 | | | 54 | 342 | | | 54 | 384 | | | 54 |
| 259 | | | | 301 | | | 56 | 343 | | | 56 | 385 | | | 56 |
| 260 | | | | 302 | | | 58 | 344 | | | 58 | 386 | | | 58 |
| 261 | | | | 303 | | | 60 | 345 | | | 60 | 387 | | | 60 |
| 262 | | | | 304 | | | 62 | 346 | | | 62 | 388 | | | 62 |
| 263 | | | | 305 | | | 64 | 347 | | | 64 | 389 | | | 64 |
| 264 | | | | 306 | | | | 348 | | | 66 | 390 | | | 66 |
| 265 | | | | 307 | | | | 349 | | | 68 | 391 | | | 68 |
| 266 | | | | 308 | | | | 350 | | | 70 | 392 | | | 70 |
| 267 | | | | 309 | | | | 351 | | | 72 | 393 | | | 72 |
| 268 | | | | 310 | | | | 352 | | | 74 | 394 | | | 74 |
| 269 | | | | 311 | | | | 353 | | | | 395 | | | 76 |
| 270 | | | | 312 | | | | 354 | | | | 396 | | | 78 |
| 271 | | | | 313 | | | | 355 | | | | 397 | | | 80 |
| 272 | | | | 314 | | | | 356 | | | | 398 | | | 82 |
| 273 | | | | 315 | | | | 357 | | | | 399 | | | 84 |

# TAB. 2

| | | A | | | | A | | | | A | | | | A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | | | | H | | | | H | | | | H | | | |
| | 10 | | 11 | | 12 | *KIT* | 13 | | 14 | | 15 | | 16 | | 17 |
| | | | | | | | | | | | | | | | |
| 6’10 5/8” | 0 | | | 8’ 3 1/4” | 0 | | | 9’ 7 3/4” | 0 | | | 11’ 1/4” | 0 | | |
| 6’11 1/8” | 2 | | | 8’ 3 5/8” | 2 | | | 9’ 8 1/8” | 2 | | | 11’ 5/8” | 2 | | |
| 6’11 1/2” | 4 | | | 8’ 4 ” | 4 | | | 9’ 8 1/2” | 4 | | | 11’ 1 1/8” | 4 | | |
| 6’11 7/8” | 6 | | | 8’ 4 3/8” | 6 | | | 9’ 8 7/8” | 6 | | | 11’ 1 1/2” | 6 | | |
| 7’ 1/4” | 8 | | | 8’ 4 3/4” | 8 | | | 9’ 9 3/8” | 8 | | | 11’ 1 7/8” | 8 | | |
| 7’ 5/8” | 10 | | | 8’ 5 1/8” | 10 | | | 9’ 9 3/4” | 10 | | | 11’ 2 1/4” | 10 | | |
| 7’ 1 ” | 12 | | | 8’ 5 5/8” | 12 | | | 9’ 10 1/8” | 12 | | | 11’ 2 5/8” | 12 | | |
| 7’ 1 3/8” | 14 | | | 8’ 6 ” | 14 | | | 9’ 10 1/2” | 14 | | | 11’ 3 ” | 14 | | |
| 7’ 1 7/8” | 16 | | | 8’ 6 3/8” | 16 | | | 9’ 10 7/8” | 16 | | | 11’ 3 3/8” | 16 | | |
| 7’ 2 1/4” | 18 | | | 8’ 6 3/4” | 18 | | | 9’ 11 1/4” | 18 | | | 11’ 3 7/8” | 18 | | |
| 7’ 2 5/8” | 20 | | | 8’ 7 1/8” | 20 | | | 9’ 11 3/4” | 20 | | | 11’ 4 1/4” | 20 | | |
| 7’ 3 ” | 22 | | | 8’ 7 1/2” | 22 | | | 10’ 1/8” | 22 | | | 11’ 4 5/8” | 22 | | |
| 7’ 3 3/8” | 24 | | | 8’ 8 ” | 24 | | | 10’ 1/2” | 24 | | | 11’ 5” | 24 | | |
| 7’ 3 3/4” | 26 | | | 8’ 8 3/8” | 26 | | | 10’ 7/8” | 26 | | | 11’ 5 3/8” | 26 | | |
| 7’ 4 1/4” | 28 | | | 8’ 8 3/4” | 28 | | | 10’ 1 1/4” | 28 | | | 11’ 5 3/4” | 28 | | |
| 7’ 4 5/8” | 30 | | | 8’ 9 1/8” | 30 | | | 10’ 1 5/8” | 30 | | | 11’ 6 1/4” | 30 | | |
| 7’ 5 ” | 32 | | | 8’ 9 1/2” | 32 | | | 10’ 2 ” | 32 | | | 11’ 6 5/8” | 32 | | |
| 7’ 5 3/8” | 34 | | | 8’ 9 7/8” | 34 | | | 10’ 2 1/2” | 34 | | | 11’ 7 ” | 34 | | |
| 7’ 5 3/4” | 36 | | | 8’ 10 1/4” | 36 | | | 10’ 2 7/8” | 36 | | | 11’ 7 3/8” | 36 | | |
| 7’ 6 1/8” | 38 | | | 8’ 10 3/4” | 38 | | | 10’ 3 1/4” | 38 | | | 11’ 7 3/4” | 38 | | |
| 7’ 6 1/2” | 40 | | | 8’ 11 1/8” | 40 | | | 10’ 3 5/8” | 40 | | | 11’ 8 1/8” | 40 | | |
| 7’ 7 ” | 42 | | 0 | 8’ 11 1/2” | 42 | | 0 | 10’ 4 ” | 42 | | 0 | 11’ 8 1/2” | 42 | | 0 |
| 7’ 7 3/8” | 44 | | 2 | 8’ 11 7/8” | 44 | | 2 | 10’ 4 3/8” | 44 | | 2 | 11’ 9” | 44 | | 2 |
| 7’ 7 3/4” | 46 | | 4 | 9’ 1/4” | 46 | | 4 | 10’ 4 3/4” | 46 | | 4 | 11’ 9 3/8” | 46 | | 4 |
| 7’ 8 1/8” | 48 | | 6 | 9’ 5/8” | 48 | | 6 | 10’ 5 1/4” | 48 | | 6 | 11’ 9 3/4” | 48 | | 6 |
| 7’ 8 1/2” | 50 | | 8 | 9’ 1 ” | 50 | | 8 | 10’ 5 5/8” | 50 | | 8 | 11’10 1/8” | 50 | | 8 |
| 7’ 8 7/8” | | | 10 | 9’ 1 1/2” | 52 | | 10 | 10’ 6 ” | 52 | | 10 | 11’10 1/2” | 52 | | 10 |
| 7’ 9 1/4” | | | 12 | 9’ 1 7/8” | 54 | | 12 | 10’ 6 3/8” | 54 | | 12 | 11’10 7/8” | 54 | | 12 |
| 7’ 9 3/4” | | | 14 | 9’ 2 1/4” | 56 | | 14 | 10’ 6 3/4” | 56 | | 14 | 11’11 1/4” | 56 | | 14 |
| 7’ 10 1/8” | | | 16 | 9’ 2 5/8” | 58 | | 16 | 10’ 7 1/8” | 58 | | 16 | 11’11 3/4” | 58 | | 16 |
| 7’ 10 1/2” | | | 18 | 9’ 3 ” | 60 | | 18 | 10’ 7 1/2” | 60 | | 18 | 12’ 1/8” | 60 | | 18 |
| 7’ 10 7/8” | | | 20 | 9’ 3 3/8” | | | 20 | 10’ 8 ” | 62 | | 20 | 12 1/2” | 62 | | 20 |
| 7’ 11 1/4” | | | 22 | 9’ 3 7/8” | | | 22 | 10’ 8 3/8” | 64 | | 22 | 12’ 7/8” | 64 | | 22 |
| 7’ 11 5/8” | | | 24 | 9’ 4 1/4” | | | 24 | 10’ 8 3/4” | 66 | | 24 | 12’ 1 1/4” | 66 | | 24 |
| 8’ 1/8” | | | 26 | 9’ 4 5/8” | | | 26 | 10’ 9 1/8” | 68 | | 26 | 12’ 1 5/8” | 68 | | 26 |
| 8’ 1/2” | | | 28 | 9’ 5 ” | | | 28 | 10’ 9 1/2” | 70 | | 28 | 12’ 2 1/8” | 70 | | 28 |
| 8’ 7/8” | | | 30 | 9’ 5 3/8” | | | 30 | 10’ 9 7/8” | | | 30 | 12’ 2 1/2” | 72 | | 30 |
| 8’ 1 1/4” | | | 32 | 9’ 5 3/4” | | | 32 | 10’10 3/8” | | | 32 | 12’ 2 7/8” | 74 | | 32 |
| 8’ 1 5/8” | | | 34 | 9’ 6 1/8” | | | 34 | 10’10 3/4” | | | 34 | 12’ 3 1/4” | 76 | | 34 |
| 8’ 2 ” | | | 36 | 9’ 6 5/8” | | | 36 | 10’11 1/8” | | | 36 | 12’ 3 5/8” | 78 | | 36 |
| 8’ 2 3/8” | | | 38 | 9’ 7 ” | | | 38 | 10’11 1/2” | | | 38 | 12’ 4 ” | 80 | | 38 |
| 8’ 2 7/8” | | | 40 | 9’ 7 3/8” | | | 40 | 10’11 7/8” | | | 40 | 12’ 4 3/8” | | | 40 |
| 8’ 3 1/4” | | | 42 | 9’ 7 3/4” | | | 42 | 11’ 1/4” | | | 42 | 12’ 4 7/8” | | | 42 |
| 8’ 3 5/8” | | | 44 | 9’ 8 1/8” | | | 44 | 11’ 5/8” | | | 44 | 12’ 5 1/4” | | | 44 |
| 8’ 4 ” | | | 46 | 9’ 8 1/2” | | | 46 | 11’ 1 1/8” | | | 46 | 12’ 5 5/8” | | | 46 |
| 8’ 4 3/8” | | | 48 | 9’ 8 7/8” | | | 48 | 11’ 1 1/2” | | | 48 | 12’ 6 ” | | | 48 |
| 8’ 4 3/4” | | | 50 | 9’ 9 3/8” | | | 50 | 11’ 1 7/8” | | | 50 | 12’ 6 3/8” | | | 50 |
| 8’ 5 1/8” | | | 52 | 9’ 9 3/4” | | | 52 | 11’ 2 1/4” | | | 52 | 12’ 6 3/4” | | | 52 |
| 8’ 5 5/8” | | | 54 | 9’ 10 1/8” | | | 54 | 11’ 2 5/8” | | | 54 | 12’ 7 1/8” | | | 54 |
| 8’ 6 ” | | | | 9’ 10 1/2” | | | 56 | 11’ 3 ” | | | 56 | 12’ 7 5/8” | | | 56 |
| 8’ 6 3/8” | | | | 9’ 10 7/8” | | | 58 | 11’ 3 3/8” | | | 58 | 12’ 8 ” | | | 58 |
| 8’ 6 3/4” | | | | 9’ 11 1/4” | | | 60 | 11’ 3 7/8” | | | 60 | 12’ 8 3/8” | | | 60 |
| 8’ 7 1/8” | | | | 9’ 11 3/4” | | | 62 | 11’ 4 1/4” | | | 62 | 12’ 8 3/4” | | | 62 |
| 8’ 7 1/2” | | | | 10’ 1/8” | | | 64 | 11’ 4 5/8” | | | 64 | 12’ 9 1/8” | | | 64 |
| 8’ 8 ” | | | | 10’ 1/2” | | | | 11’ 5” | | | 66 | 12’ 9 1/2” | | | 66 |
| 8’ 8 3/8” | | | | 10’ 7/8” | | | | 11’ 5 3/8” | | | 68 | 12’ 10 ” | | | 68 |
| 8’ 8 3/4” | | | | 10’ 1 1/4” | | | | 11’ 5 3/4” | | | 70 | 12’10 3/8” | | | 70 |
| 8’ 9 1/8” | | | | 10’ 1 5/8” | | | | 11’ 6 1/4” | | | 72 | 12’10 3/4” | | | 72 |
| 8’ 9 1/2” | | | | 10’ 2 ” | | | | 11’ 6 5/8” | | | 74 | 12’11 1/8” | | | 74 |
| 8’ 9 7/8” | | | | 10’ 2 1/2” | | | | 11’ 7 ” | | | | 12’11 1/2” | | | 76 |
| 8’10 1/4” | | | | 10’ 2 7/8” | | | | 11’ 7 3/8” | | | | 12’11 7/8” | | | 78 |
| 8’10 3/4” | | | | 10’ 3 1/4” | | | | 11’ 7 3/4” | | | | 13’ 1/4” | | | 80 |
| 8’11 1/8” | | | | 10’ 3 5/8” | | | | 11’ 8 1/8” | | | | 13 3/4” | | | 82 |
| 8’11 1/2” | | | | 10’ 4 ” | | | | 11’ 8 1/2” | | | | 13’ 1 1/8” | | | 84 |

**FIG. 1**

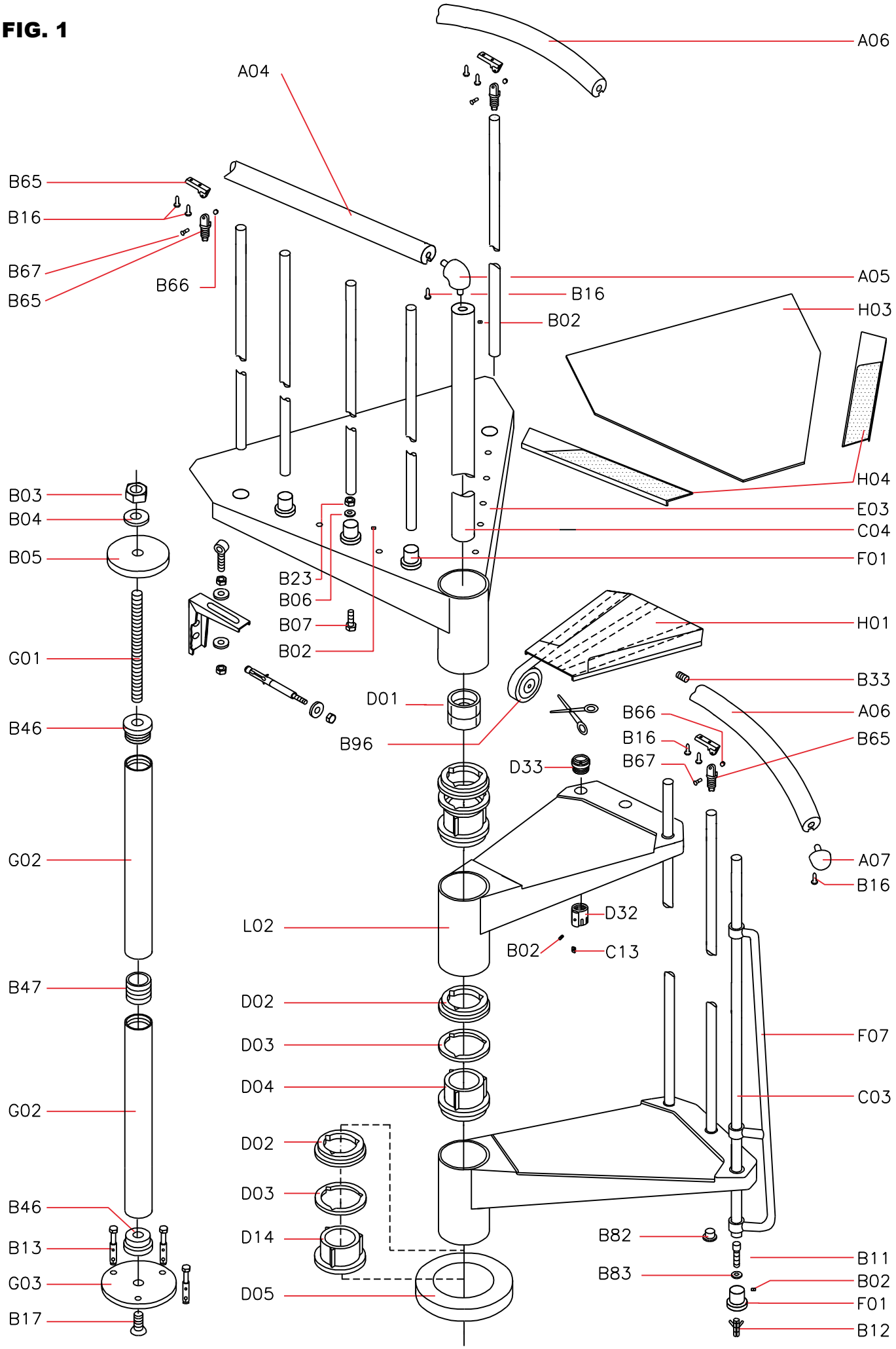

A06
A04
B65
B16
B67
B65
B66
A05
B16
B02
H03
H04
E03
C04
F01
B03
B04
B05
G01
B46
G02
B47
G02
B46
B13
G03
B17
B23
B06
B07
B02
H01
B33
A06
B65
D01
B96
B66
B16
B67
D33
A07
B16
D32
L02
B02
C13
D02
D03
D04
D02
D03
D14
D05
F07
C03
B82
B83
B11
B02
F01
B12

**FIG. 2**

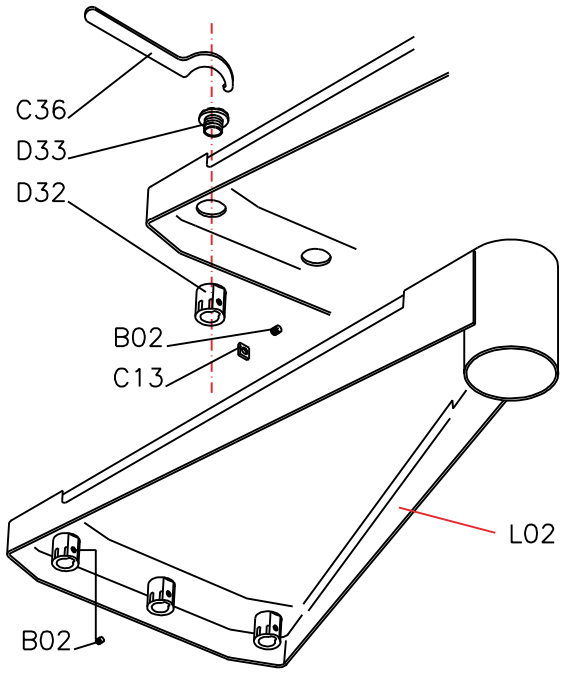



**FIG. 3**

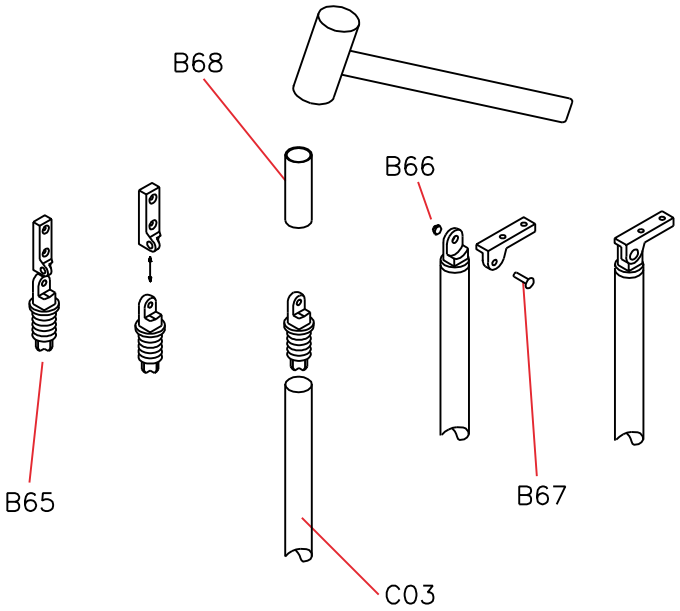



**FIG. 4**

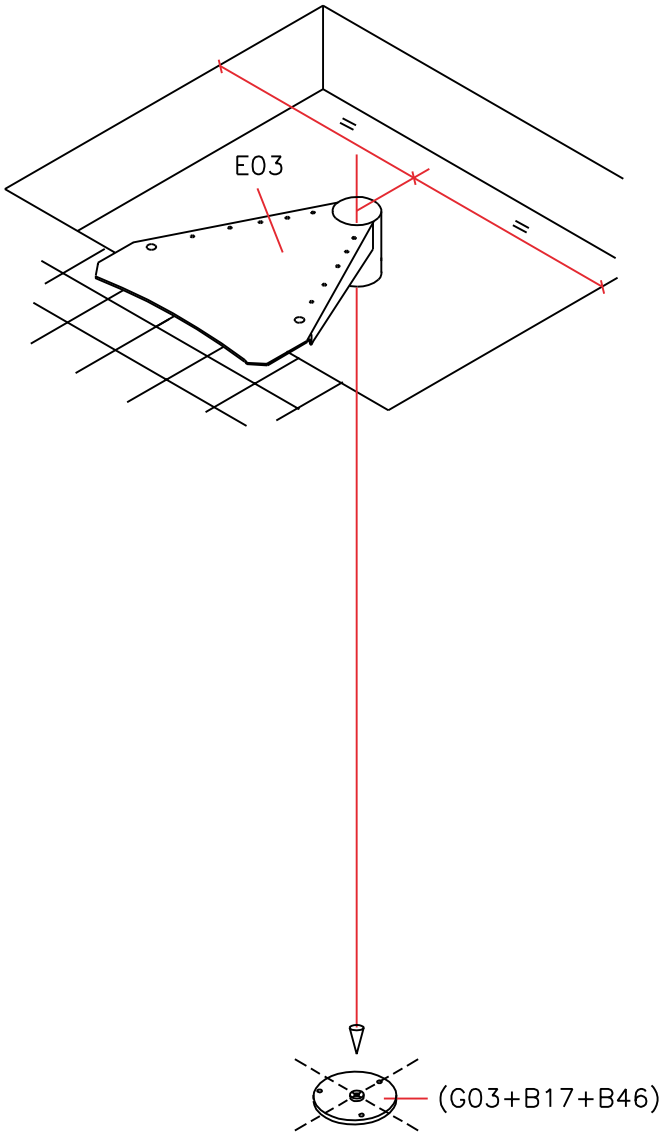



**FIG. 5**

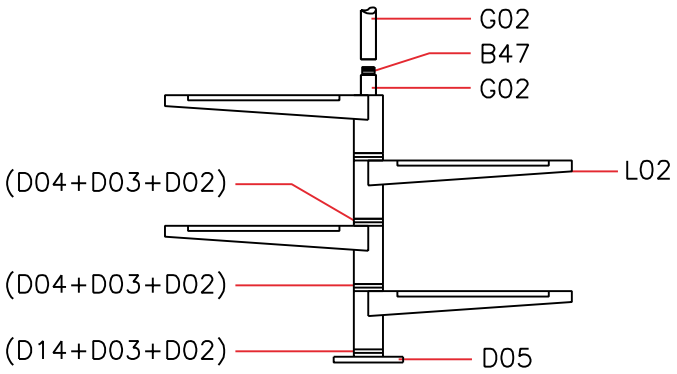



**FIG. 6**

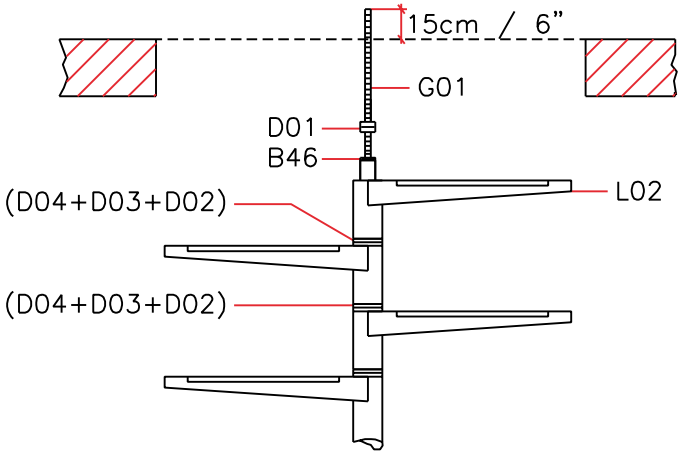


**FIG. 7**

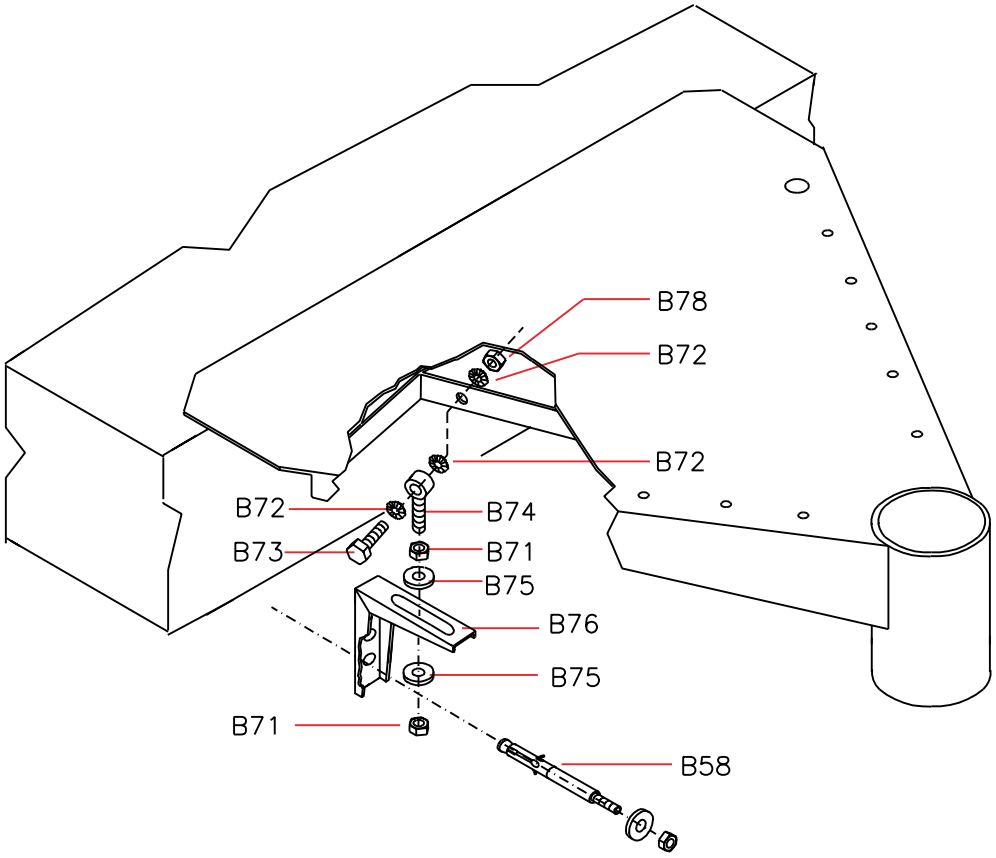
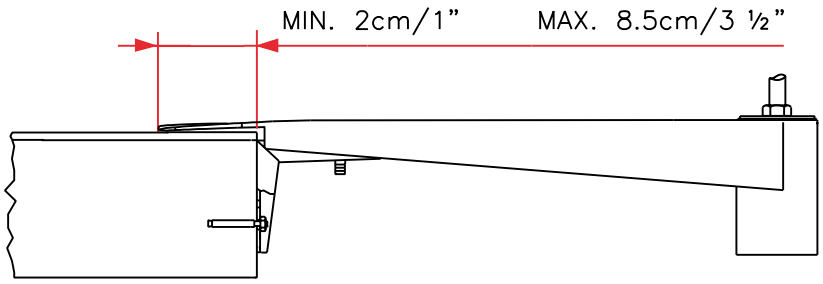

B78
B72
B72
B72
B74
B73
B71
B75
B76
B75
B71
B58

**FIG. 8**


MIN. 2cm/1”
MAX. 8.5cm/3 ½”

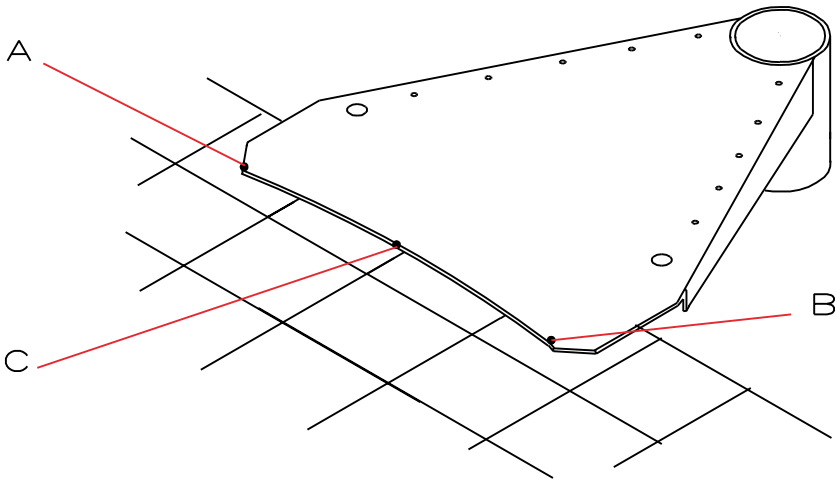
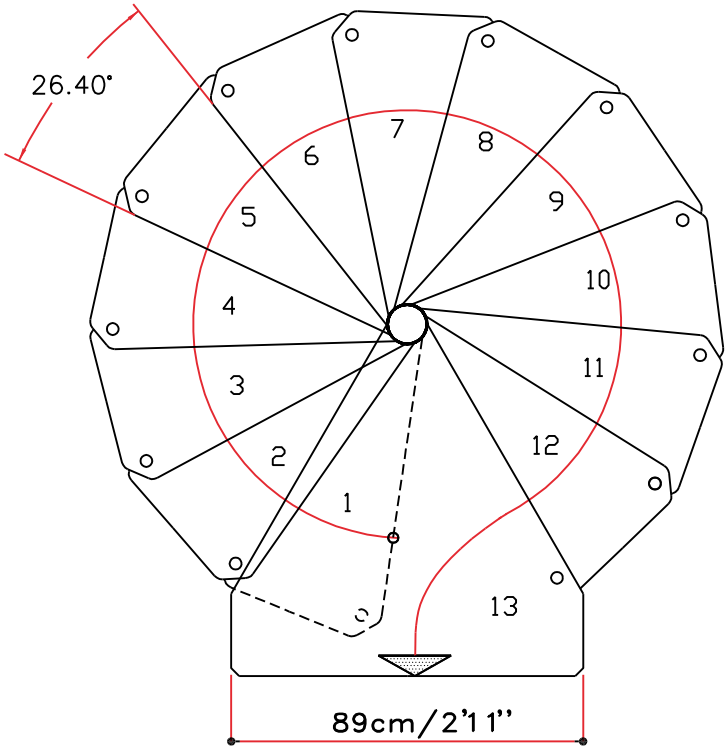
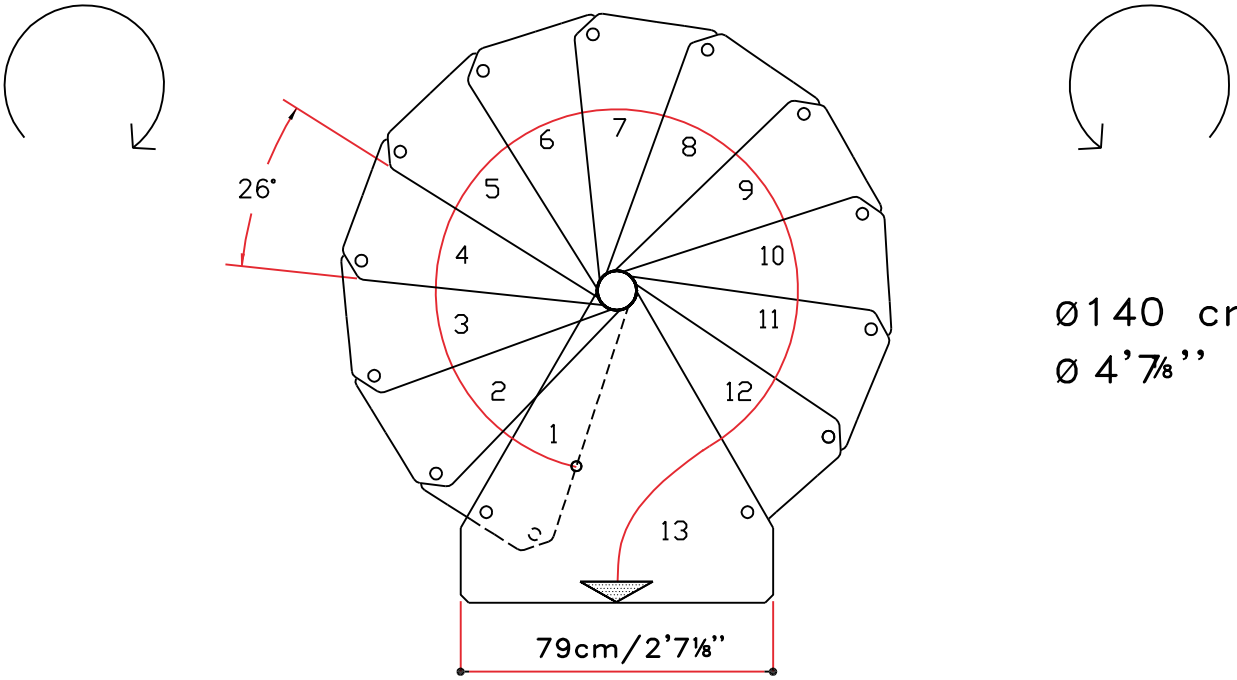

A
B
C

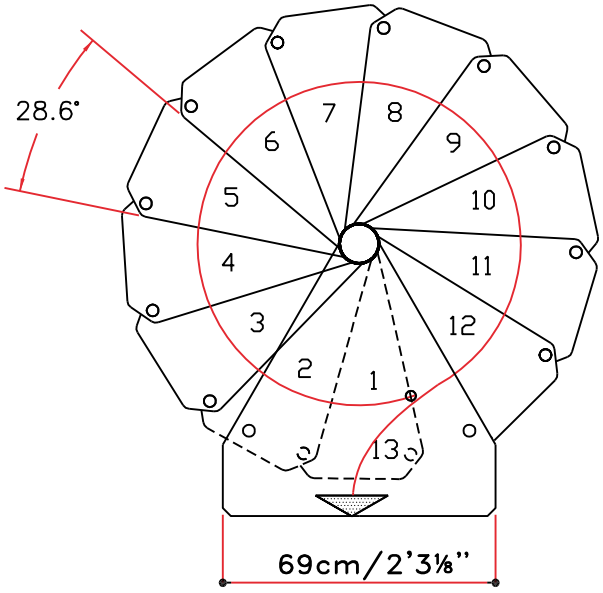
**FIG. 9**




Ø160 cm
Ø 5'3''




Ø140 cm
Ø 4'7⅛''




Ø120 cm
Ø 3'1¼''

**FIG. 10**

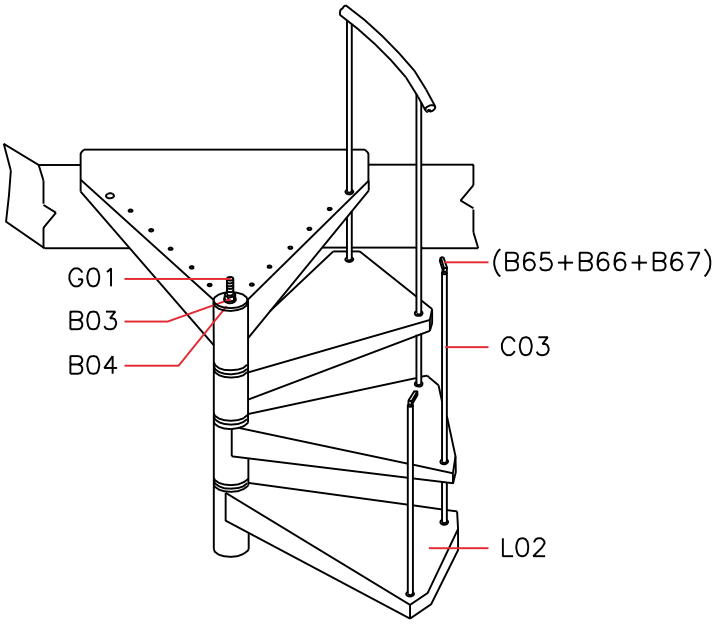



**FIG. 11**

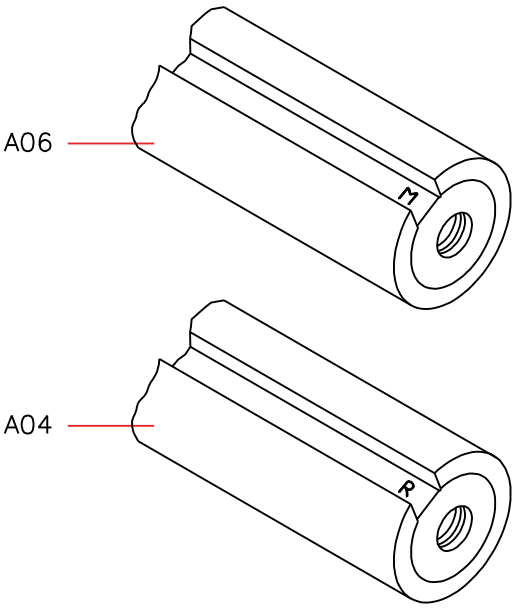



**FIG. 12**

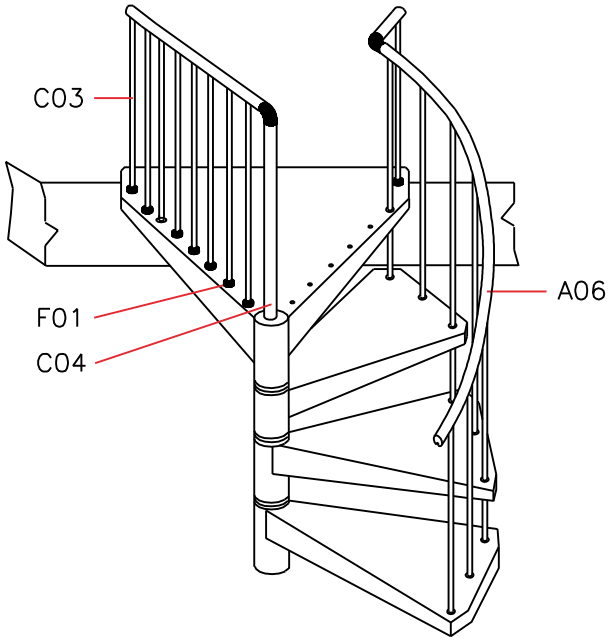



**FIG. 13**

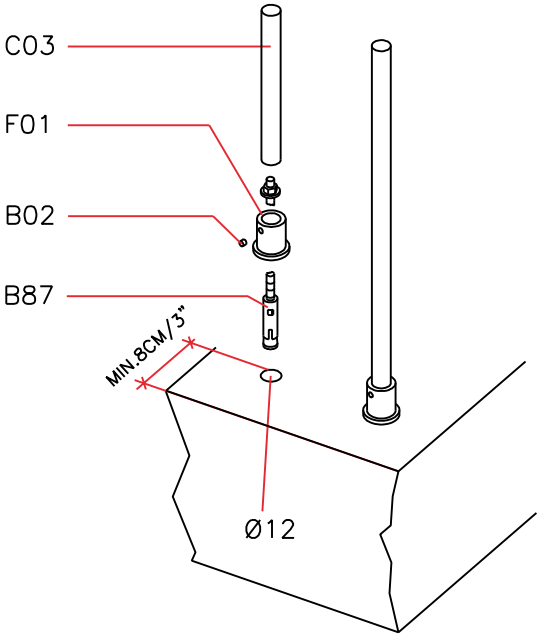
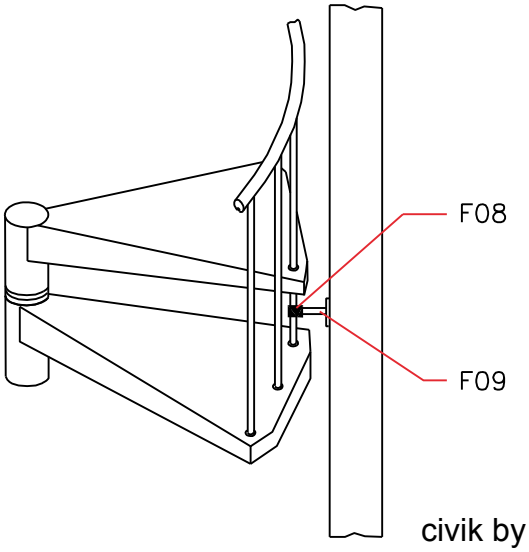
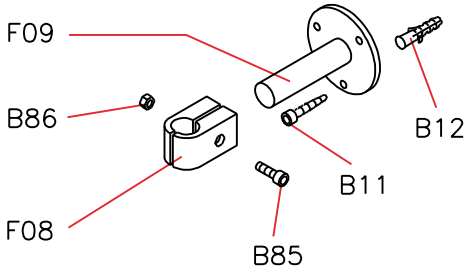



**FIG. 14**



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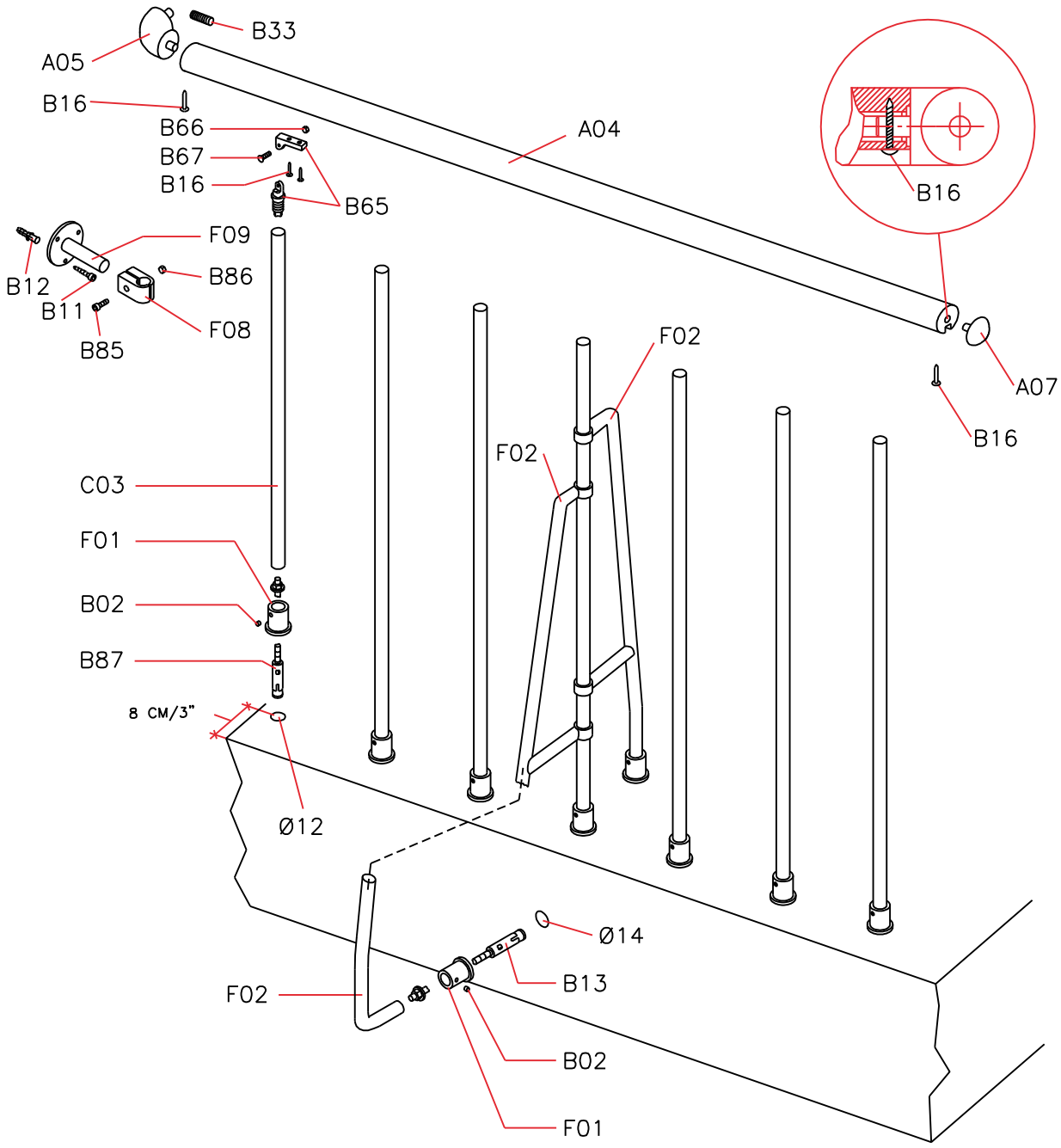
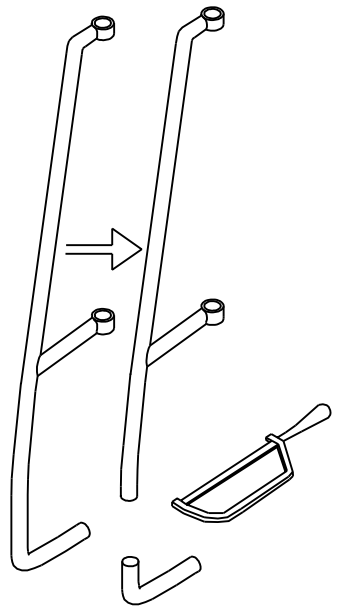
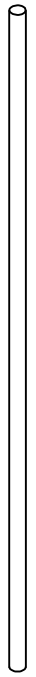



N°=1



F02

N°=10



C03

N°=1

A04

N°=1

F09

F08

B85

B33



B86

A05

B13

N°=24



B16

N°=13



B02

N°=11

F01

N°=2

A07

N°=10



B67



B66



B65



B87

N°=3

B12

B11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