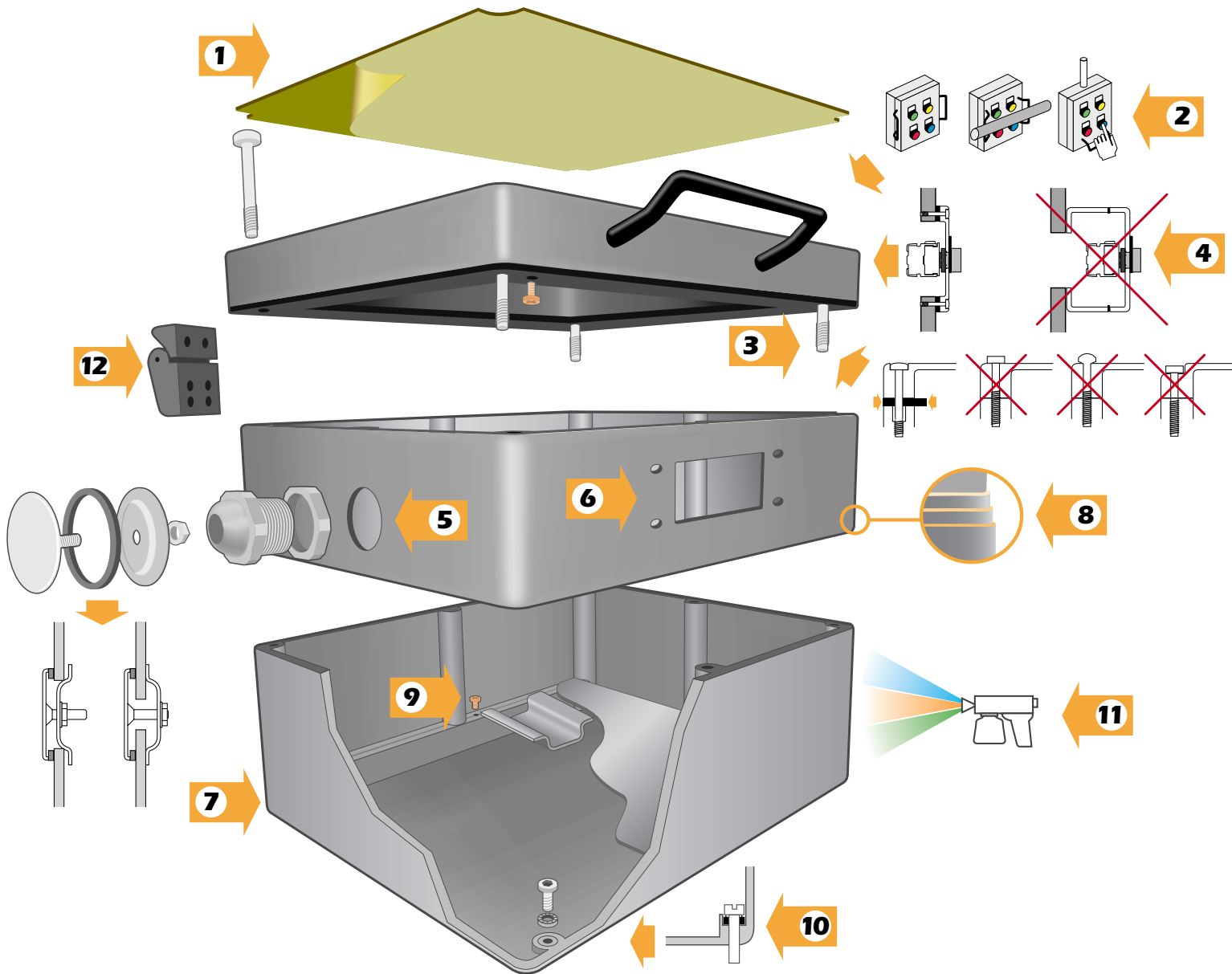




CONSTRUCTION PRINCIPLES APPLIED



1 The flat, smooth surface of the cover, without labels or protrusions, permits perfectly secure application of aluminium or plastic laminate dataplates.

2 Apart from assuring safe gripping, the force-fitted handles, code 040MM, provide an effective, ergonomic system of container protection.

3 The screws of the cover cannot be lost as this is guaranteed by coupling the closing seal which is thus securely fastened to the perimeter of the cover. The head of the screw is fully recessed for seamless container smoothness.





CONSTRUCTION PRINCIPLES APPLIED

4

The height of the cover (only 20 mm), and the shape of the seal permit use in embedded applications in those cases in which application of the entire container would be impossible or highly critical.

5

The boxes are available in a pre-drilled version for cable infeed and also in a non-drilled version. This permits various cable infeed solutions or use of several cable clamps on the same side. However, the hole can be closed, also in the pre-drilled version, using a specific accessory (see page 44).

6

Using state-of-the-art CNC equipment, the container can be customised if special drilling or machining is required



7

Many version of the container are available with different heights to provide users with a wide range of choice.

8

In the standard versions, the containers are treated with complex finishing systems: various degreasing operations, cleaning with ionised water, chromium-plating and powder enamel.



9

In the larger sizes, the base of the containers is complete with "feet" for fastening of plates or DIN guides.

10

The boxes are wall mounted using bosses on the perimeter. Once the membrane has been perforated, normal No. 6 screws can be inserted equipped with special thermoplastic spacers that guarantee the protection rating.



11

Our sales organisation is able to assess requests for small series with special paint, complying with the same high quality standards as the normal series product.

12

The box can be equipped with special pressure cast hinges. Installation must be afforded by drilling of the cover and base.



HOUSING MATERIAL

Al Si 12 aluminium alloy casting

FASTENERS

Closing of the covers 4ma screws combined head DIN 7962, Dacromet® treated steel; on request, 4ma TC EI stainless steel

SEAL

Rubber-cork sheet Shore 70

COLOUR

RAL 7035 grey, special paint on request

PROTECTION RATING

IP66 - CEI EN 60529

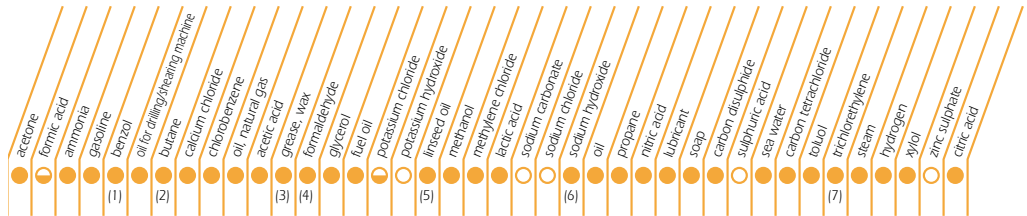
MAX. AND MIN. TEMPERATURES

-40° ÷ +100°C

CONTAINER CORROSION STRENGTH

The New Elfin housings assure good resistance to corrosion even without the normal treatment; the aluminium forms a hard, deep surface layer of oxide resistant to corrosion and oxidation. This characteristic is affected by the percentage of copper in the alloy; the less copper in the alloy, the higher the resistance to corrosion. Our containers are made of ALSI 12 alloy, DIN 1725 and contain 0,05÷0,1% of copper and are therefore highly resistant to corrosion.

RESISTANCE TO CHEMICAL SUBSTANCES



Legend: ● resistant to all concentrations

◐ resistant to certain concentrations

○ not resistant

Notes: (1) without H₂O; with H₂O

(2) gaseous

(3) without formic acid

(4) with NaCl

(5) <250°C

(6) melted, without H₂O

(7) light metal

PROTECTION TREATMENT OF THE BOXES

In particular working environments, the aluminium could be exposed to corrosion by aggressive substances with therefore "blooming". To overcome these drawbacks, our containers are degreased and washed with ionised water, chromium-plated in galvanic baths of chromic acid and painted with epoxy paints.

CASTING PROCEDURES

SP

From the 70 x 118 to the 152 x 152 mm format, pressure cast, flat surface; dimensional tolerance ±0.35 DIN 1688, part 4a average thickness 2÷2,5mm

FC

from the 92 x 257 to the 230 x 257 mm format, die cast; slightly granulated rough surface; dimensional tolerance ±1.2 DIN 1688 part 3a average thickness 3,5÷4mm

CT

from the 257 x 300 to the 410 x 410 mm format, sand cast, large grain irregular surface; dimensional tolerance ±2.5 DIN 1688 part 1a average thickness 5-6mm

OVERVIEW OF CHARACTERISTICS

	density g/cm ³	withdrawal limit N/mm ²	tensile strength N/mm ²	ultimate tensile strength %	hardness Brinell HB	E modulus 0-6/K	electrical resistance m/mm ²	heat conduction W/mK	resistance to heat °C	resistance to cold °C
GD-AL Si 12 (pressure casting)	2,65	120-180	200-280	1-3	60-80	20-23	17-23	150-170	300	-100
GK-AL Si 12 (die casting)	2,65	80-110	180-240	6-12	50-60	20-23	17-27	150-170	300	-100





SPECIAL VERSIONS



NEUTRAL VERSION CONTAINER

On request, all the formats are available in the rough version to permit independent management of container construction by users both for special applications with machining to drawing and for customised painting so that the box integrates perfectly in the machine assembly in which it is inserted both as regards appearance and from a technical point of view.

To request this version, indicate "N" at the end of any standard code



POLISHED BRIGHT VERSION CONTAINER

This special treatment includes various polishing and shot-blasting phases that endow the box with a smooth mirror type surface, ideal for production environments in the food or pharmaceutical industry in however conditions that do not cause corrosion of the aluminium. In this version, the standard accessories and lock screws are made of stainless steel.

To request this version, indicate "B" at the end of any standard code.



COVERS FOR EMBEDDED VERSIONS

To request only covers (for embedded solutions), specify the code required using the code of the complete box and omitting any indication of the height and of any cable hole. Example:



040 SERIES CODES DECODING 040⁽¹⁾

FAMILY	TYPE	BASE	HEIGHT	DEPTH	CABLE HOLE	COVER	N° OF HOLES	VERSION	SURFACE
040 = aluminium boxes	C = aluminium	07 = 70 mm 09 = 92 mm 15 = 152 mm 17 = 170 mm 23 = 230 mm 30 = 300 mm 35 = 350 mm 40 = 400 mm	09 = 92 mm 11 = 118 mm 15 = 152 mm 20 = 205 mm 25 = 257 mm 26 = 260 mm 35 = 350 mm 40 = 400 mm	7 = 70 mm 8 = 80 mm 1 = 100 mm 11 = 110 mm 12 = 120 mm 15 = 150 mm	E = Ø 29 mm Ø 23 mm	G = yellow	P... = holes Ø 22 S... = holes Ø 30	L = in line	N = neutral B = metal
040	C	09	15	7	E	P4	L		

040C0915-7EP4L



1) This example is intended only to permit decoding of existing codes and not for independent management of these.