EXTERNAL HOUSING FOR
TELECOMMUNICATION NETWORKS

Aluminum

Naturally, the best choice.

- Extremely robust
- Recyclable
- Easy to clean – color doesn't fade

Raycap

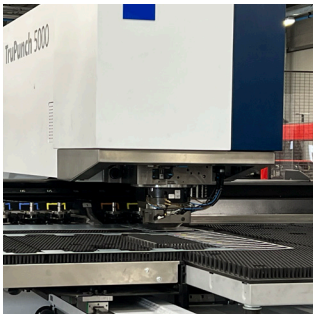
Street cabinets that protect power and telecommunications equipment are a part of the network infrastructure that must remain active for decades. They need to be strong, impact-resistant, and, in today's world, made using a highly sustainable and readily recyclable material that puts environmental considerations at the forefront. Other considerations include an easily washable, non-pitting, noncorroding surface that withstands UV rays and provides a tough vandalism-resistant exterior.

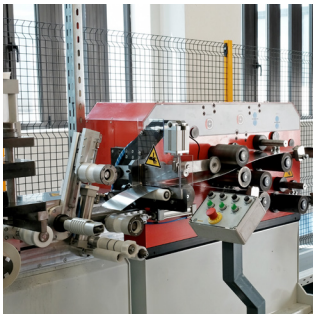
Recyclable Material

75% of the almost 1.5 billion tonnes of aluminum ever produced is still in productive use today.

Raycap cabinets are constructed of 1050 aluminum; as well as the 5754 aluminum alloy comprised of 28% recycled aluminum. These cabinets are durable and easy to recycle.

- Aluminum is recyclable - it can be melted downrepeatedly and processed into new products without losing any of its properties or degrading during the process.
- Recycling aluminum requires only about 5% of theenergy needed to extract new aluminum from bauxite.
- 75% of all aluminum ever produced is still in use today and is constantly being recycled.
- Recycling aluminum is not toxic – unlike various plastics, which require heat for recycling and to which chemical additives such as BPA are sometimes added.
- Polycarbonate can also be recycled, but not all recycling centers will accept it, and locations needed to recycle it are often hard to find.





Manufacturing

- Aluminum can be used in much smaller wall thicknesses than plastic because, as a metal, it is fundamentally more dimensionally stable. Raycap's cabinets are made from 1-4 mm thick aluminum plates and are, depending on the application, single- or double-walled.
- Aluminum can be formed into any shape so the dimensions of Raycap's aluminum cabinets can be easily adapted to their application.

Properties

Aluminum has various properties that make it particularly suitable for use in harsh outdoor environments. It is also highly resistant to theft, burglary and vandalism.

- Aluminum cabinets are mechanically very robust, even in low or high ambient temperatures.
- Aluminum cabinets are permanently resistant to heat and UV light and their exterior does not change its chemical properties.
- Powder-coated aluminum enclosures are easy to clean.
- Aluminum is not combustible.
- Because of their high degree of natural heat dissipation, aluminum cabinets require significantly less air conditioning than polycarbonate cabinets.
- Aluminum is resistant to corrosive environments, such as salt air or road salt.
- The metal is electrically conductive, which prevents potential build-up and facilitates earthing.
- Compared to other metals aluminum is very light. It has a high strength-to-weight ratio.

Durability

Powder-coated aluminum is highly resistant to various environmental influences - including:

- Acidic or alkaline soils
- Water
- Animal excrement
- Fertilizers
- Strong solar radiation
- Severe cold
- Water (rain, hail, snow)

All aluminum Raycap NVT & MFG cabinets in the field, quite a contrast between aluminum and polycarbonate.

Attractive

Even after many years, powder-coated aluminum enclosures look like new on the outside. This is a result of its special properties:

- Aluminum cabinets do not absorb fine dust particles; the surface does not age.
- Unlike polycarbonate cabinets which don't clean easily and look dirty after a short time, dirt adhered onto an aluminum cabinet can be easily wiped off.
- With an anti-graffiti coating, posters and spray paints can also be easily removed from an aluminum cabinet's metal surface.
- Cabinet color can be matched to the environment and it will not fade over time.

Polycarbonate cabinets get gray and dull with age, and cannot be easily cleaned or brought back to their original exterior look.

Standards & Norms

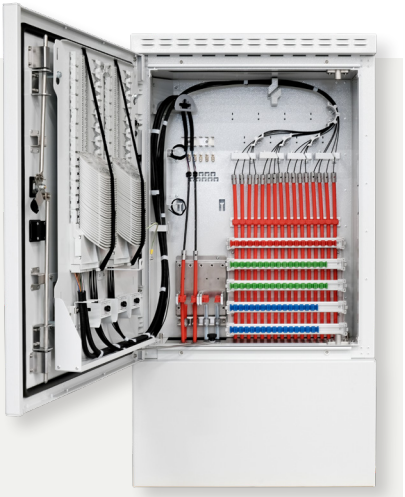
Raycap cabinets meet the requirements of the following norms and standards, among others:

- Burglar resistance level T4 (121-180 sec) according to DIN 47609:2023 and RC2 according to EN 1627
- IP protection min. IP54 according to EN 60529
- EU environmental directives RoHS and REACH
- Condensation according to DIN 47609:1989
- Impact resistance IK10 according to IEC 62262
- Mechanical Stress - Vibration and shock according to IEC 60721-3-4

Network Distribution via the NVT Series

The network distributors of the NVT series from Raycap comply with the material concept of the Federal Ministry of Transport and Digital Infrastructure (BMVI). Close to the resistance class WK2 (DIN V EN V 1627-1630 class RC2) they are extremely robust and resistant to external influences.

The cabinet protects against external force and unauthorized access is more difficult with a 3-point locking mechanism and an optional electronic locking system. The IP55 protection rating confirms the high resistance to weathering.



Aluminum cabinets have multiple benefits including weather resistance, security, durability, 100% recyclability and an easy to clean surface.

Aluminum enclosures have many advantages such as resistance to weather and ageing, high mechanical strength, easy cleaning and 100% recyclability.

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