**Max ZFW (Pax + Cargo) Checker**

**1. Select Aircraft & Month**

* **Aircraft Type**: Choose **CJ2**, **CJ3**, or **Embraer** from the dropdown.
* **Flight Month**: Select the month of the planned flight.
  + The app automatically assigns **Summer** (Apr 1 – Oct 31) or **Winter** (Nov 1 – Mar 31).
  + A note appears below confirming the auto-detected season.

**2. Confirm or Override Season**

* By default, the detected season is applied (Summer/Winter).
* If needed, use the **Season radio buttons** to override manually.

**3. Enter Passenger Data**

Two input modes are available:

* **Standard Weights (default)**
  + Enter counts for **Males, Females, Children, Infants**.
  + The app applies the official **standard weights per season**.
    - *E.g., Male = 193 lb in Summer, 199 lb in Winter.*
* **Override Weights**
  + Toggle **“Override passenger standard weights”**.
  + Enter **total passenger count**, then input each passenger’s **actual weight**.

**4. Enter Cargo Data**

* **Default Cargo**: The app auto-calculates **30 lb per passenger**.
* **Override Cargo**: Toggle the checkbox and enter a **custom cargo weight** if needed.

**5. Review the Results**

The app calculates:

* Passenger weight (standard or override)
* Cargo weight (assumed or entered)
* Total pax + cargo
* Seasonal **maximum allowed limit** for your chosen aircraft

**6. Interpret the Status**

* **Green** = Within limits, shows remaining margin (e.g., “WITHIN LIMITS by 142 lb”).
* **Red** = Over limit, shows the excess amount (e.g., “OVER LIMIT by 85 lb”).

Additional details are displayed below, including pax weight, cargo weight, total payload, and the aircraft’s seasonal max.

**7. Final Notes**

* This tool is a **planning check only**.
* It ensures your **pax + cargo load** does not exceed restrictive seasonal ZFW maxima.
* It does **not** compute full ZFW, CG, or account for tail-specific variations beyond the most restrictive value.