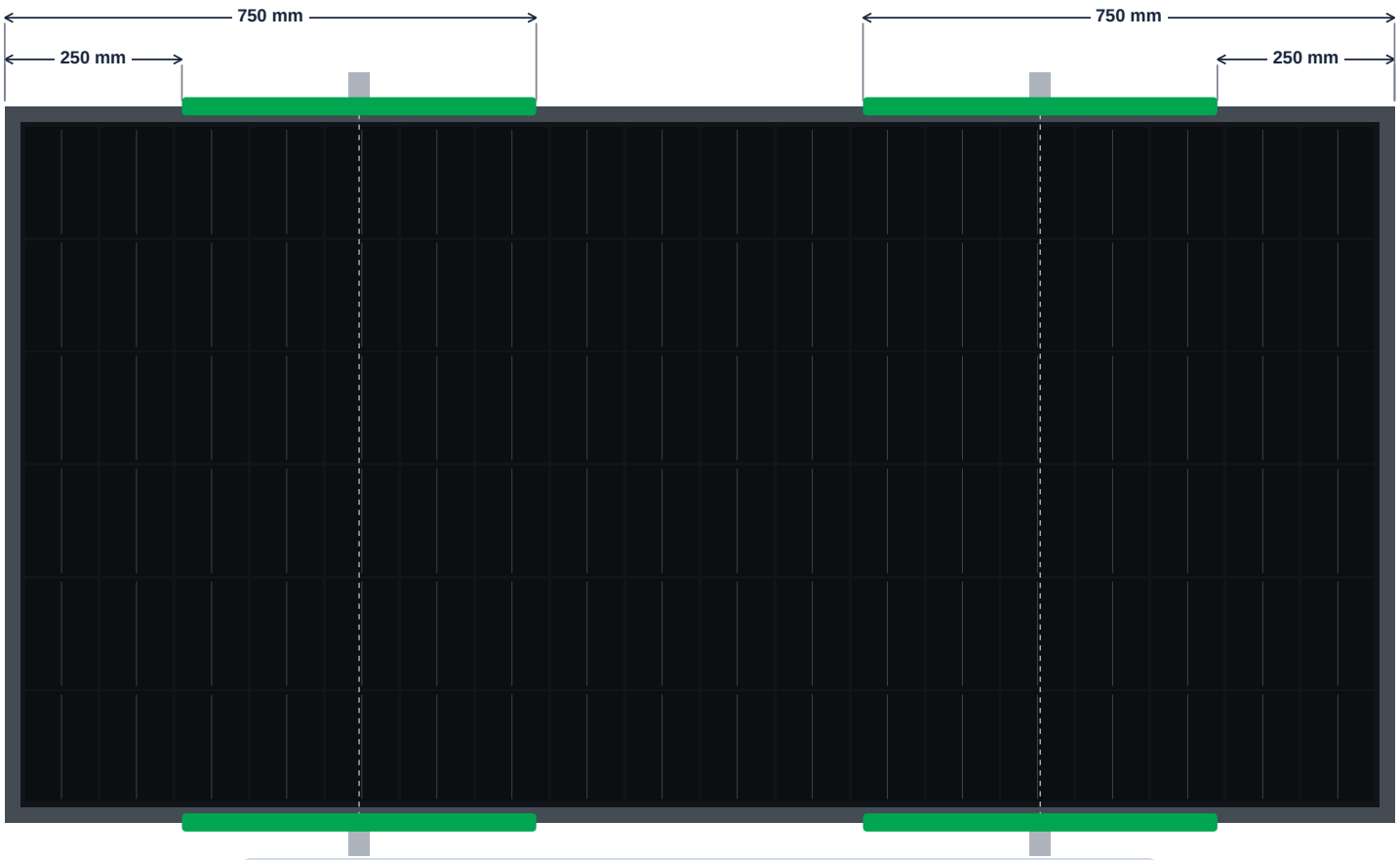
Extended Clamping Recommendation

Long-frame clamping - 2-rail mounting / continuous approved range

APPLICABLE PRODUCT	TCL Solar Half-cut TOPCon (HSM-ND54-GR490~515)	MODULE SIZE	1961 x 1134 x 30 mm

APPROVED RAIL CENTRELINE RANGE: 250-750 mm FROM EACH SHORT EDGE



RECOMMENDED STATIC LOAD RATING (SML)

+2400 / -2400 Pa

valid throughout the approved range

INSTALLATION BASIS

Rails cross the long frames; install four clamps at the rail-to-long-frame intersections. Each rail centreline may be located anywhere from 250 mm to 750 mm from its nearest short edge. The +2400/-2400 Pa rating applies throughout both approved ranges.

IMPORTANT - CONDITIONS AND LIMITATIONS

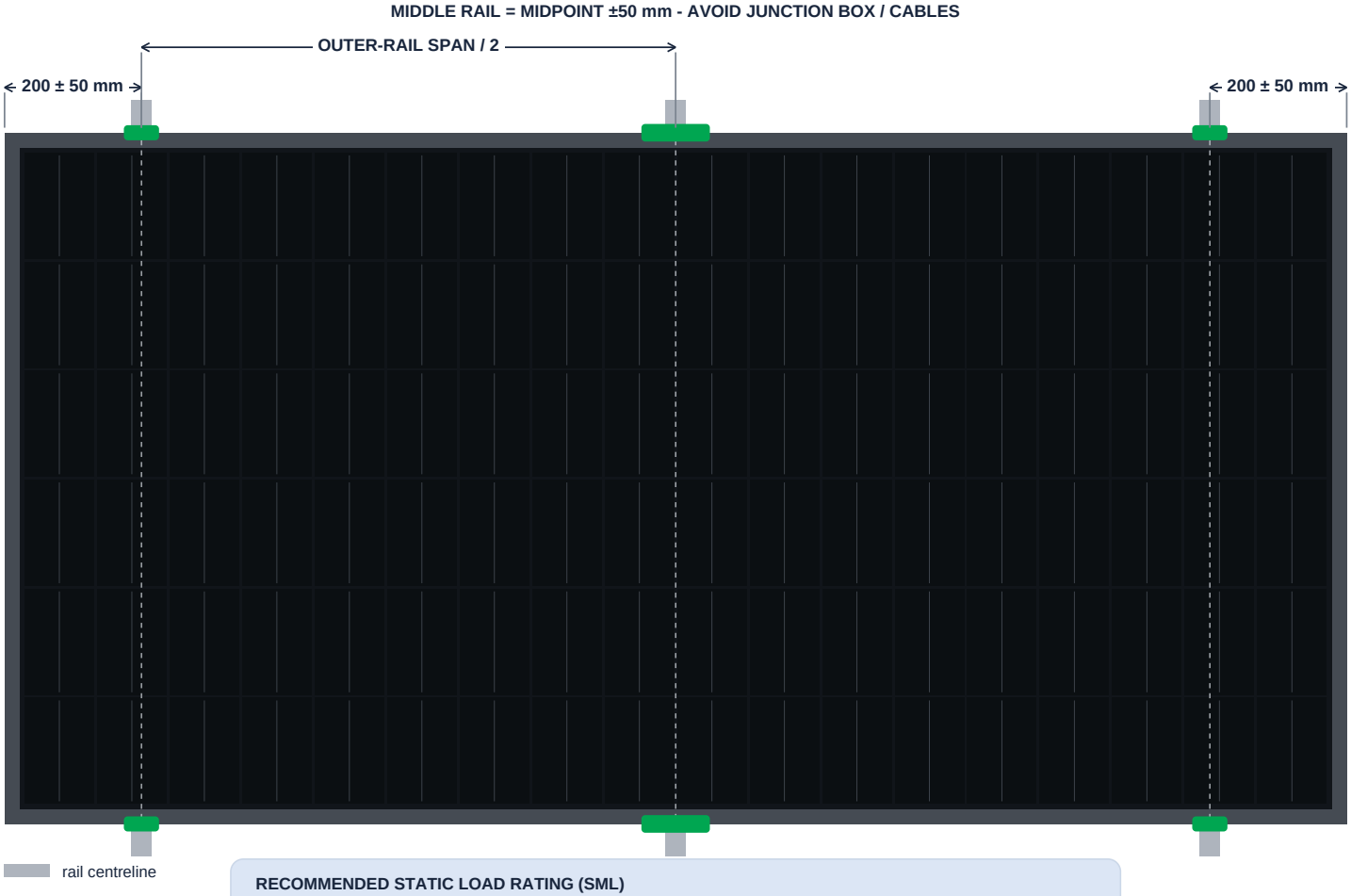
Load ratings are reference static-mechanical-load values for the specified module and illustrated support geometry, based on test reference JC20260346. They do not replace project-specific structural verification. Installation shall comply with the latest TCL Solar installation manual, applicable codes, approved clamp dimensions and torque, rail design, and site-specific loads. Any deviation requires prior written TCL approval.

Warranty coverage is governed solely by the applicable TCL Solar limited warranty and approved installation documents. This recommendation does not create, extend, or modify any warranty.

Extended Clamping Recommendation

Long-frame clamping - 3-rail mounting / six clamps

APPLICABLE PRODUCT	TCL Solar Half-cut TOPCon (HSM-ND54-GR490~515)	MODULE SIZE	1961 x 1134 x 30 mm



RECOMMENDED STATIC LOAD RATING (SML)

+6000 / -2700 Pa

+ = front pressure; - = uplift

INSTALLATION BASIS

Rails cross the long frames; install six clamps at the rail-to-long-frame intersections. Outer rail centrelines: 200 ± 50 mm from each short edge. Set the middle rail at half the actual outer-rail centreline span, with a ±50 mm adjustment to avoid the junction box and cables.

IMPORTANT - CONDITIONS AND LIMITATIONS

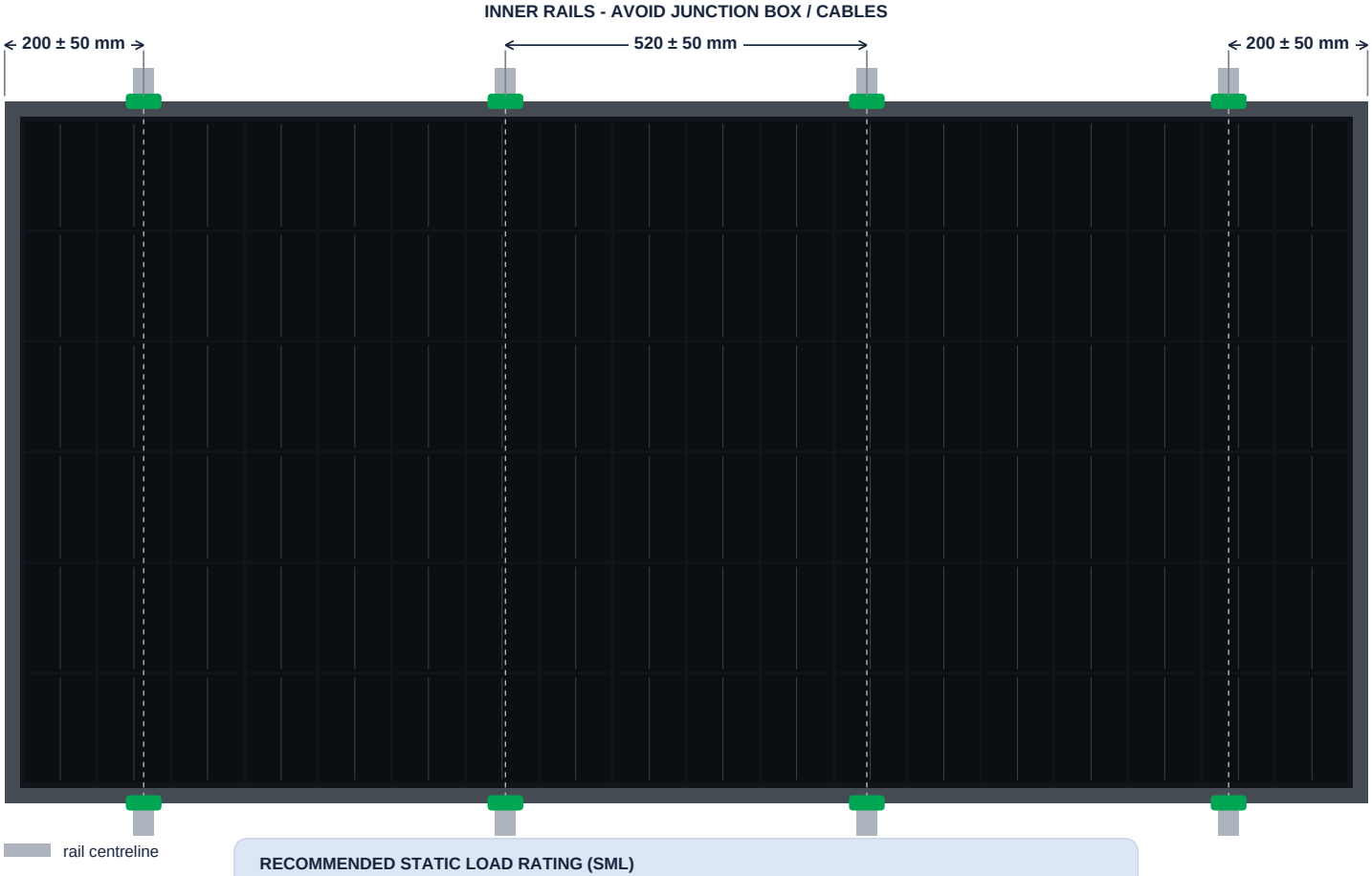
Load ratings are reference static-mechanical-load values for the specified module and illustrated support geometry, based on test reference JC20260346. They do not replace project-specific structural verification. Installation shall comply with the latest TCL Solar installation manual, applicable codes, approved clamp dimensions and torque, rail design, and site-specific loads. Any deviation requires prior written TCL approval.

Warranty coverage is governed solely by the applicable TCL Solar limited warranty and approved installation documents. This recommendation does not create, extend, or modify any warranty.

Extended Clamping Recommendation

Long-frame clamping - 4-rail mounting / eight clamps

APPLICABLE PRODUCT	TCL Solar Half-cut TOPCon (HSM-ND54-GR490~515)	MODULE SIZE	1961 x 1134 x 30 mm



RECOMMENDED STATIC LOAD RATING (SML)

+6000 / -3650 Pa

+ = front pressure; - = uplift

INSTALLATION BASIS

Rails cross the long frames; install eight clamps at the rail-to-long-frame intersections. Outer rail centrelines: 200 ± 50 mm from each short edge. Maintain 520 ± 50 mm between the inner rail centrelines and position both inner rails to avoid the junction box and cables.

IMPORTANT - CONDITIONS AND LIMITATIONS

Load ratings are reference static-mechanical-load values for the specified module and illustrated support geometry, based on test reference JC20260346. They do not replace project-specific structural verification. Installation shall comply with the latest TCL Solar installation manual, applicable codes, approved clamp dimensions and torque, rail design, and site-specific loads. Any deviation requires prior written TCL approval.

Warranty coverage is governed solely by the applicable TCL Solar limited warranty and approved installation documents. This recommendation does not create, extend, or modify any warranty.