Tactical Waterproof Rifle Case — MOLLE, IPX6 | SL-C811

Summary. The SL-C811 tactical waterproof rifle case measures 132 × 33 × 10 cm with a capacity of approximately 42 L at approximately 2.6 kg. The 840D TPU laminated shell is RF welded and rated IPX6, closed by a full-length two-way waterproof zipper. Interior: EVA foam at 20–25 mm in the lid, 15 mm base and 10 mm sides, with six to eight adjustable retention straps. Exterior: laser-cut MOLLE, two D-rings and a hook-and-loop panel. Backpack straps, detachable shoulder strap and reinforced handle. Grey, brown, camouflage. MOQ 300 pcs.

The MOLLE grid is laser-cut into a welded outer panel rather than stitched as webbing rows, so the waterproof barrier behind it remains continuous. Retention straps are positioned to secure the fore-end, receiver and stock independently, and strap count and position are set against a customer reference firearm. Body length is quoted at 132 cm with 122 cm and 140 cm also available.

Foam is graded by position rather than applied at one thickness: 20–25 mm profiled egg-crate in the lid, 15 mm in the base and 10 mm at the sides. The lid profile compresses progressively and presses the firearm against the base, so the gun is held between two foam surfaces rather than resting under a flat lid.



SL-C811 in grey, showing laser-cut MOLLE, D-rings, hook-and-loop panel, and full-length waterproof zipper

At a Glance

Specification	Value
Model	SL-C811
External size	**132 × 33 × 10 cm (estimated)**
Capacity	approx. 42 L
Weight	**approx. 2.6 kg (estimated)**
Shell material	840D TPU laminated fabric
Construction	RF welded
Waterproof rating	**IPX6**
Closure	Full-length two-way waterproof zipper
Padding	**EVA foam, 20–25 mm**
Internal retention	Adjustable fixing straps
Exterior system	Laser-cut MOLLE, D-rings, hook-and-loop panel
Carry	Backpack straps, detachable shoulder strap, reinforced handle
Colourways	Grey / Brown / Camouflage
MOQ / Sampling / Production	300 pcs / 7–10 days / 30–45 days

Dimensions and weight are stated as estimated against the current production sample and are confirmed on the approved sample for each order.



Holding Three Requirements at Once

Requirement	What Usually Gives Way	How the SL-C811 Keeps It
Waterproofing	Stitched MOLLE and padding perforate the shell	Welded shell; MOLLE laser-cut into a welded panel
Impact protection	Welded dry cases run unpadded to save weight	20–25 mm EVA egg-crate upper, 15 mm base, 10 mm sides
Exterior load carriage	Sewn webbing rows pierce the barrier	Laser-cut MOLLE on a welded outer panel
Internal security	Foam alone lets a firearm shift	Adjustable retention straps at multiple points
Carry over distance	Handles only, or thin single straps	Backpack harness plus detachable sling

The cost of holding all three is weight. At approximately 2.6 kg this is the heaviest case in our range, and it should be specified where the protection and load carriage are needed rather than as a general-purpose product.

Inside the Case

The interior is the reason this case exists. A welded shell keeps water out; the retention system and layered foam are what keep the firearm undamaged inside it.



Interior: egg-crate upper foam, adjustable retention straps, and padded base

Egg-crate upper foam

The lid carries a profiled egg-crate foam layer at 20–25 mm. The profile does two things a flat sheet does not: it compresses progressively rather than all at once, and its raised sections press down onto the firearm to hold it against the base rather than simply covering it. When the case is closed the gun is held between two foam surfaces rather than resting loose under a lid.

Adjustable retention straps

Multiple adjustable fixing straps run across the base, positioned so a rifle can be secured at the fore-end, the receiver, and the stock independently.

- Six to eight adjustable retention points across the length
- Positioned to secure fore-end, receiver, and stock separately
- Adjustable rather than fixed, so a shorter or longer firearm is held equally
- Secured so a scoped rifle with a suppressor fitted stays in position rather than travelling

Retention is what separates a tactical case from a padded bag. Padding absorbs an impact that reaches the firearm; retention stops the firearm moving in the first place, which is the mechanism that produces contact wear on long journeys.

Layered padding

Position	Thickness	Function
Upper lid	**20–25 mm EVA egg-crate**	**Compresses progressively; presses the firearm to the base**
Base	15 mm EVA	Takes ground contact and drop energy
Sides	10 mm EVA	Protects against edge impact and case-wall contact

Foam is graded by position rather than applied at one thickness throughout. The base takes the heaviest loads, the lid does the retention work, and the sides need enough to stop edge contact without adding unnecessary bulk to a 10 cm profile.

Laser-Cut MOLLE on a Waterproof Shell

Conventional MOLLE is rows of webbing stitched to a panel. On a waterproof case that is hundreds of needle holes across the largest face of the product, which is why most welded cases carry no MOLLE at all.

How ours is done. The MOLLE grid is laser-cut into a welded outer panel. There is no webbing and no stitching — the attachment slots are openings in a panel that is itself welded to the shell, so the waterproof barrier behind it is continuous.

What it accepts. Standard MOLLE and PALS-compatible pouches and accessories, plus two D-rings for lash points and a hook-and-loop panel for identification or unit patches.

Why laser cutting rather than punching. A laser-cut edge is sealed as it is cut, so the slot edges do not fray or delaminate under repeated attachment and removal.

> **Worth checking on any waterproof tactical case:** ask whether the MOLLE is stitched or laser-cut. Stitched webbing on a welded shell is common, and it puts a perforation at every bar-tack across the case's largest panel. Ask for the immersion test to be run on a finished unit with the MOLLE panel fitted rather than on a bare shell.

Exterior and Carry



Brown colourway

Element	Detail
Full-length waterproof zipper	Two-way, so the case can be opened from either end or partly opened
Backpack straps	Adjustable; distribute a 2.6 kg case plus firearm across both shoulders
Shoulder strap	Detachable, for single-shoulder carry and short transfers
Carry handle	Reinforced, centre-mounted for balanced lifting
D-rings	Two, for lashing or accessory attachment
Hook-and-loop panel	Identification, unit, or brand patches
MOLLE grid	Laser-cut, PALS compatible

The two-way zipper matters more on a case this long than on a short one. Opening from the muzzle end alone gives access to the barrel section without exposing the whole interior, which is useful when working from a vehicle or a prone position.

Waterproof Construction and Rating

The shell is 840D TPU laminated fabric joined by RF welding, so there are no stitch perforations in the waterproof body. The closure is a full-length waterproof zipper, and the MOLLE panel is laser-cut rather

than sewn.

Element	Contribution
840D TPU laminated shell	Non-porous barrier; abrasion resistant
RF welded seams	No needle perforations in the body
Waterproof zipper	Seals the opening rather than merely closing it
Laser-cut MOLLE panel	Load carriage without piercing the barrier
Welded strap anchors	Carry load transferred without stitching through the shell

Rated IPX6: protection against powerful water jets from any direction under IEC 60529 — heavy rain, deck wash, and hose-down. It is not rated for immersion. A padded tactical case of this construction is specified for weather and transport protection, and customers whose cases may go fully underwater should be directed to our welded roll-top range, which is immersion rated and floats.

Colourways



Camouflage colourway

Colourway	Typical Use
Grey	Range, agency, and low-profile transport
Brown	General field and tactical use
Camouflage	Hunting and concealment applications

Custom colours and camouflage patterns can be matched for OEM programmes, and the hook-and-loop panel accepts identification patches without additional branding on the shell.

Full Specification

Item	Specification
Model	SL-C811
Product name	Tactical Waterproof Rifle Case
Product type	Tactical long gun case
External size	132 × 33 × 10 cm (estimated)
Capacity	approx. 42 L
Weight	approx. 2.6 kg (estimated)
Shell material	840D TPU laminated fabric
Inner lining	Polyester
Foam	EVA
Foam thickness	20–25 mm upper / 15 mm base / 10 mm sides

Item	Specification
Construction	RF welded
Waterproof rating	IPX6
Closure	Full-length two-way waterproof zipper
Internal retention	Adjustable fixing straps, 6–8 points
MOLLE system	Laser-cut, PALS compatible
Accessory mounts	2 D-rings, hook-and-loop panel
Backpack straps	Adjustable
Shoulder strap	Detachable
Carry handle	Reinforced
Compatible firearms	Precision, tactical, hunting, scoped, and AR-style rifles; shotguns
Colourways	Grey / Brown / Camouflage
MOQ	300 pcs
Sample lead time	7–10 days
Production lead time	30–45 days
OEM / ODM	Supported
Origin	China

Customization Available

Option	Notes
Body length	132 cm standard; 122 cm and 140 cm quoted
Foam thickness and grade	Adjusts protection level and case weight
Retention strap count and position	Set against a reference firearm
MOLLE grid layout	Panel size and slot pattern
Hook-and-loop panel size and position	For unit or brand identification
Colour and camouflage	Pantone and pattern matching
Interior lining colour	Contrast lining for visibility of small parts
Welded logo patch	Applied without piercing the shell
Packaging	PE bag standard; retail carton and hang tag available

Firearm Fit

At 132 cm external the case suits rifles up to roughly 120 cm overall, which covers scoped precision rifles with suppressors fitted — the configuration that most commonly runs out of room in a shorter case.

1. Measure the firearm overall as it will be cased, with optic, suppressor, and any bipod fitted

2. Allow clearance beyond that figure rather than specifying to the exact length
3. Confirm the retention strap positions suit the fore-end, receiver, and stock of that firearm
4. For AR-style rifles, confirm whether the case carries one rifle with accessories or two rifles
5. Send a reference firearm at sampling where the fit is critical

How It Is Made

6. Incoming inspection of 840D TPU, EVA foam, lining, webbing, and zipper
7. Welding parameter setup for the fabric batch and first-article peel test
8. Precision cutting of shell panels, foam, and lining
9. Laser cutting of the MOLLE grid panel
10. RF welding of the shell body and MOLLE panel to the case
11. Waterproof zipper installation into the welded seam
12. EVA foam layering — egg-crate upper, base, and side sections
13. Retention strap installation and lining assembly
14. Backpack harness, shoulder strap, handle, and D-ring mounting
15. Water resistance and function verification
16. Final inspection and export packing

Checks Before Shipment

Check	Method	Frequency
Incoming material	Visual and dimensional	Every batch
Weld peel test	Destructive peel on a sample weld	Start of every run
Welded seam integrity	Full visual inspection	100%
MOLLE panel weld	Visual around the panel perimeter	100%
Laser-cut slot edges	Inspection for clean sealed edges	100%
Foam placement and thickness	Measured against specification	Sampling
Retention strap function	Adjustment and hold check	100%
Zipper operation	Full-length two-way operation	100%
Harness and handle	Loaded pull test	Sampling
Water resistance	Jet spray check against the IPX6 condition	Per approved sampling plan
Packaging	Carton verification	100%

Test Results

Test	Method	Outcome
IPX6 water jets	**Powerful jets applied from multiple**	**No ingress at seams, closure, or**

Test	Method	Outcome
	directions	**MOLLE panel**
Weld seam peel	Destructive peel on a welded sample	Parent fabric tore before seam separation
MOLLE panel immersion	Jet test with the laser-cut panel fitted	No ingress behind the panel
Retention hold	**Loaded case handled and transported over rough ground**	**Firearm held position; no travel within the case**
Drop with retention	Loaded case dropped onto the base	Foam and retention absorbed the impact; no contents damage
Foam recovery	Repeated compression of the egg-crate layer	Recovered; no permanent flattening
Harness load	Repeated loaded carry cycles on the backpack straps	No anchor separation or webbing deformation
Two-way zipper cycle	Repeated operation from both ends	Both sliders retained function and sealing
MOLLE attachment cycle	Pouches repeatedly attached and removed	Slot edges intact; no fraying or delamination
Abrasion	Contact with vehicle beds, gravel, and hard surfaces	Cosmetic wear only; barrier intact

Where It Sits Against the Range

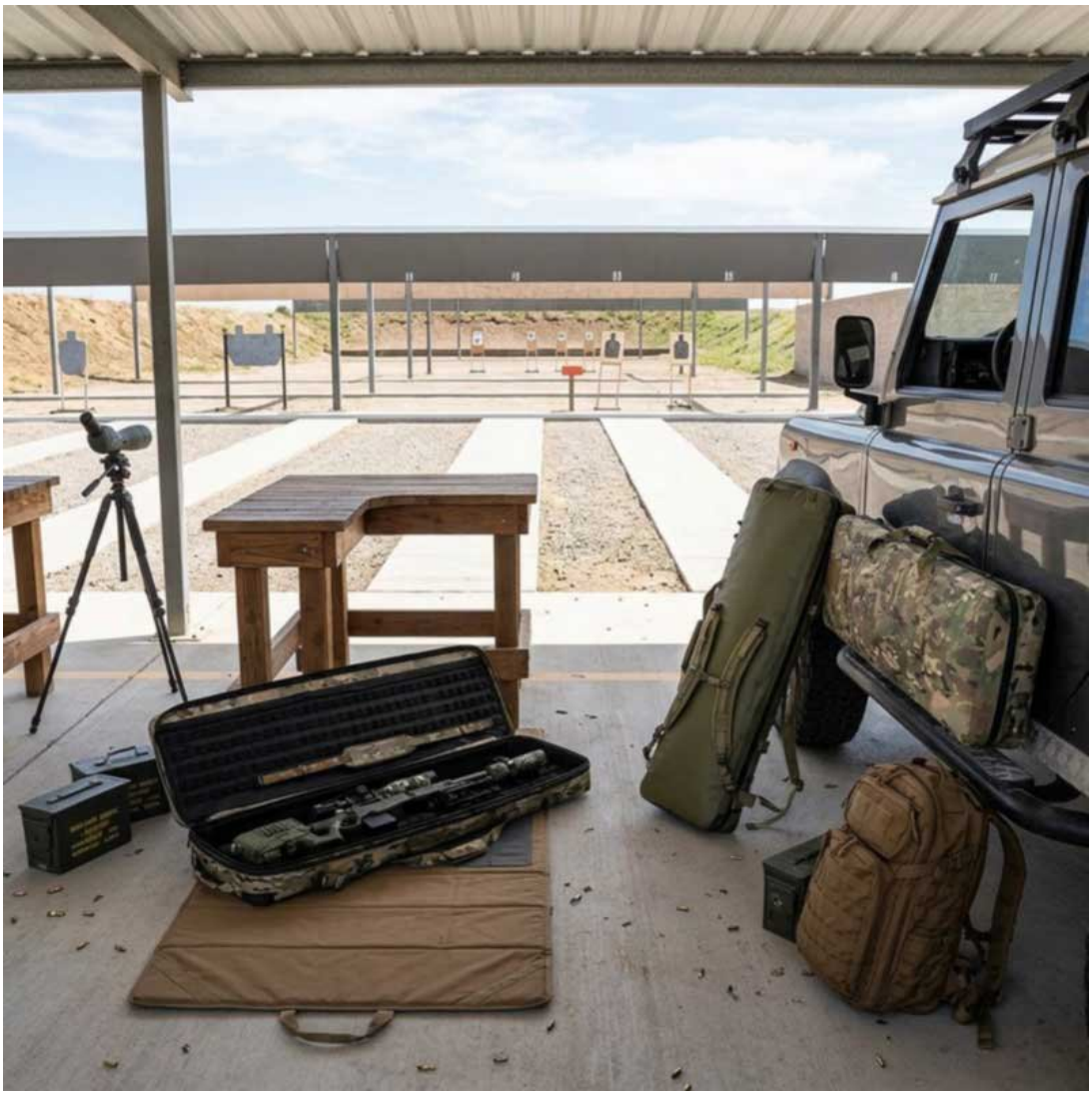
Model	Construction	Rating	Weight	Padding	Chosen For
SL-E899	Stitched, coil zip	Water-resistant	0.85 kg	10–15 mm	Everyday field and range
SL-E603	Welded, sealed zip	IPX7	1.1 kg	None	Waterproof with fast access
SL-E302	Welded, roll-top	IPX7	1.35 kg	None	Immersion risk, buoyancy
SL-C811	**Welded, waterproof zip**	**IPX6**	**2.6 kg**	**20–25 mm**	**Protection plus load carriage**

The SL-C811 is the only case in the range that combines a welded waterproof shell with full padding and exterior load carriage. It is also the heaviest, and that is the trade a buyer is making.

Where It Is Used

Precision and tactical rifle transport where the firearm carries an optic and suppressor; agency and unit equipment programmes requiring MOLLE compatibility and identification panels; vehicle-based operations where a case is loaded and unloaded repeatedly in weather; competition shooting where a rifle travels with accessories attached to the exterior; guided operations transporting client rifles across rough ground; and any programme where a firearm must arrive both dry and undamaged rather than one

or the other.



Packing and Terms

Item	Specification
Individual packing	PE protective bag
Carton	135 × 38 × 38 cm
Units per carton	4 pcs
Carton gross weight	approx. 11.5 kg
Volume per unit	approx. 0.049 m^3
20 GP loading	**approx. 570 pcs**
40 HQ loading	**approx. 1,390 pcs**
MOQ	300 pcs

Item	Specification
Sample lead time	7–10 days
Production lead time	30–45 days
Trade terms	EXW / FOB / CIF
Certifications	ISO 9001, BSCI, SMETA, GRS (material dependent)

Container figures are calculated from carton volume and are indicative; final loading is confirmed against the packing list at booking.

In the Box

Included Item	Quantity
Tactical Waterproof Rifle Case (SL-C811)	1
Backpack straps	1 set
Detachable shoulder strap	1
PE protective bag	1

After the Sale

- 12-month warranty against manufacturing defects, including welded seams and retention hardware
- Replacement retention straps and buckles supplied for dealer service programmes
- Welding parameter records retained per project for OEM quality files
- Reference firearm fit consultation for retention strap positioning
- Third-party inspection by SGS or QIMA arranged on request

Project Files

Central Europe — precision rifle competition programme

Competitors were transporting scoped rifles with suppressors fitted, which ran out of length in the 122 cm cases they had been using. We supplied the 132 cm body and repositioned the retention straps against a reference rifle so the fore-end, receiver, and stock were each secured with the suppressor in place. 350 pcs, 44 days.

Middle East — agency equipment programme

The requirement was MOLLE compatibility on a waterproof case, and the buyer had previously been offered stitched webbing on a welded shell. We supplied the laser-cut panel specification with jet test results taken on a finished unit with the panel fitted, plus a hook-and-loop panel sized for unit identification. 500 pcs, 45 days.

North America — vehicle-based guiding operation

Client rifles were being loaded and unloaded from vehicles in weather several times a day, and the operation wanted one case that would keep guns both dry and unmarked. The combination of welded

shell and retention system addressed both, and the backpack harness handled the walk-in sections. 400 pcs, 43 days.

What Buyers Told Us

> *"Suppressor on, scope on, and it still closed with clearance. That was the whole specification for us."*

— Team Manager, Precision Rifle Programme

> *"Everyone else offered us stitched MOLLE on a welded case and called it waterproof. You laser-cut it and had the test to back it."*

— Procurement Officer, Agency Programme

> *"The retention straps are what stopped the wear. The rifles used to come out marked from travelling inside the case."*

— Operations Manager, Guiding Operation

Buyer Questions

1. What size firearm does it take?
At 132 cm external it suits rifles up to roughly 120 cm overall, which covers scoped precision rifles with suppressors fitted. Measure the firearm as it will be cased — optic, suppressor, and bipod attached — and allow clearance beyond that figure. 122 cm and 140 cm bodies are also quoted.

2. What is the waterproof rating?
IPX6 under IEC 60529 — protection against powerful water jets from any direction, covering heavy rain, deck wash, and hose-down. It is not immersion rated. Customers whose cases may go fully underwater should use our welded roll-top range, which is immersion rated and floats.

3. How is MOLLE fitted without perforating the shell?
The grid is laser-cut into a welded outer panel rather than sewn as webbing rows. There is no stitching, and the panel itself is welded to the shell, so the waterproof barrier behind it stays continuous. Stitched MOLLE on a welded case puts a perforation at every bar-tack.

4. What does the retention system do that padding does not?
Padding absorbs an impact that reaches the firearm. Retention stops the firearm moving in the first place, which is the mechanism that produces contact wear over long journeys. Six to eight adjustable points secure the fore-end, receiver, and stock separately.

5. Why is the upper foam profiled rather than flat?
An egg-crate profile compresses progressively rather than all at once, and its raised sections press down onto the firearm to hold it against the base. The gun is held between two foam surfaces rather than resting loose under a lid.

6. Why is the foam different thicknesses in different places?
Because the loads differ. The base takes ground contact and drop energy at 15 mm, the lid does the retention work at 20–25 mm, and the sides need 10 mm to stop edge contact without adding bulk to a 10 cm profile.

7. Why does it weigh more than your other waterproof cases?
Because it does more. Welded waterproofing, 20–25 mm of layered padding, a retention system, MOLLE, and a backpack harness together come to approximately 2.6 kg against 1.1–1.35 kg for an unpadded welded case. It should be specified where the protection and load carriage are needed.

8. What is the two-way zipper for?
Opening from the muzzle end alone gives access to the barrel section without exposing the whole interior, which is useful working from a vehicle or a prone position. On a 132 cm case that matters more than on a short one.

9. Can retention strap positions be changed?
Yes, and we recommend setting them against a reference firearm at sampling so each strap lands at the fore-end, receiver, and stock of the intended rifle rather than at generic positions.

10. Can the case carry two rifles?
It is specified as a single-rifle case with room for accessories. Two-rifle configurations can be quoted with revised retention layout and increased thickness — confirm the requirement at the development stage.

11. What branding options avoid piercing the shell?
A welded logo patch, printing, and the hook-and-loop panel, which accepts identification or unit patches without additional attachment to the barrier. Embroidery is not recommended on a waterproof shell.

12. What are the commercial terms?
MOQ 300 pcs, samples in 7–10 days, production in 30–45 days, quoted EXW, FOB, or CIF. OEM and ODM development covers length, foam grade and thickness, retention layout, MOLLE panel design, colour, branding, and packaging.