



ALUMINUM FORMWORK LOCKING WEDGE

TAPERED STEEL WEDGE FOR FORM-PIN CONNECTIONS



Progressive hammer-driven clamping for compatible slotted form pins and aluminum panel systems.

TAPERED BODY

Converts insertion travel into clamping action

MULTIPLE DESIGNS

Straight, curved, T-head, slotted and holed

MATCHED FIT

Produced for the selected pin slot and assembly

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ABOUT EVERSTAR

MANUFACTURING CAPABILITY & EXPORT SUPPORT



MANUFACTURING SINCE 1999

SHIJIAZHUANG EVERSTAR HARDWARE MACHINERY CO., LTD. manufactures construction hardware, wire products and formwork accessories for global buyers. Our 58,000 m² facility integrates steel preparation, precision blanking, punching, forming, inspection and export packing.

58,000 M² Manufacturing facility	45 LINES Stable production scheduling
210 EMPLOYEES Including 25 R&D personnel	10 QC INSPECTORS Dimensional and trial-fit checks

BUYER SUPPORT

OEM/ODM • sample and drawing development • matched pin supply • mechanical testing • customized export packing

PRODUCT OVERVIEW

FLAT TAPERED LOCKING COMPONENT



Actual EVERSTAR wedge types with slots, retaining holes and different head profiles

PROGRESSIVE CLAMPING THROUGH THE PIN SLOT

After the form pin passes through aligned panels and ties, the narrow wedge tip enters the pin slot. Driving the wide end advances the taper and tightens the connection. The selected wedge angle, width and locking travel must match the complete assembly.

NARROW TIP Guides entry into the form-pin slot	WIDE END Provides the striking and retaining area	OPTIONAL OPENING Elongated slot or round retaining hole
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IMPORTANT | This flat wedge is separate from the round slotted form pin. Confirm both parts as one matched set.

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TECHNICAL SPECIFICATIONS

COMMON MARKET REFERENCES

PRODUCT ITEM	DETAILS
Product Name	Aluminum Formwork Steel Locking Wedge
Search Names	Aluminum Formwork Wedge Pin, Formwork Flat Wedge, Pin Wedge
Material	High-strength carbon steel or specified alloy steel
Structure	Tapered flat plate with optional head, slot or retaining hole
Common Length	Approximately 70–100 mm
Common Thickness	Approximately 2.5–3.5 mm
Width & Taper	According to matching pin slot and locking requirement
Matching Hardware	Round-head, flat-head, stub, standard and long form pins
Manufacturing	Blanking/cutting, punching, forming, deburring and inspection
Heat Treatment	According to confirmed material, hardness and service requirements
Surface	Approved sample or order specification
Mechanical Performance	Approved design and EVERSTAR test report
Reusability	Reusable when correctly installed, inspected and maintained

SPECIFICATION CONTROL | Reference ranges are not universal. Final geometry and performance must match the actual pin and formwork assembly.

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WEDGE TYPES & DESIGN CONFIRMATION

SELECT THE REQUIRED PROFILE



Straight and T-head wedges showing tapered tips and elongated slots

PRODUCT ITEM	DETAILS
Straight Wedge	Flat straight taper for general form-pin connections
Curved / Offset Wedge	Additional hammer clearance in restricted areas
T-Head Wedge	Wide striking head and controlled insertion travel
Slotted Wedge	Elongated opening for system-specific retention or geometry
Retaining-Hole Wedge	Round hole for attachment or project-specific retention
Dimensions to Confirm	Length, max/tip width, thickness, angle, travel, head, slot/hole and matching pin slot

BEST PRACTICE | Approve a complete sample assembly including wedge, pin, wall tie and panel rail before mass production.

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INSTALLATION & APPLICATIONS

PIN-AND-WEDGE LOCKING SEQUENCE



TYPICAL INSTALLATION

1 ALIGN Position panels, tie and connection holes	2 INSERT PIN Pass the compatible form pin through the assembly
3 ORIENT Align the pin slot with wedge insertion direction	4 INSERT WEDGE Place the narrow tip through the slot
5 DRIVE Strike the wide end until securely clamped	6 INSPECT Check seating, alignment, braces and every joint

APPLICATIONS

Wall and column panels • beam and slab joints • internal/external corners • deck and soffit systems • wall-tie connections • waler brackets • repetitive cast-in-place construction

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MANUFACTURING & QUALITY CONTROL

CONSISTENT TAPER, SLOT & LOCKING TRAVEL

PRODUCTION FLOW

1 MATERIAL Steel-grade verification	2 BLANKING Precision cutting	3 PUNCHING Slot or retaining hole	4 FORMING Taper, head or offset
5 DEBURRING Edge and surface control	6 TREATMENT Agreed heat/surface process	7 INSPECTION Dimensions and trial fit	8 PACKING Counted export packaging

INSPECTION CHECKPOINTS

GEOMETRY Length, maximum/tip width and thickness	TAPER Angle, travel and profile consistency
HEAD Shoulder and striking-end quality	OPENING Slot/hole size, location and burr control
PERFORMANCE Hardness and agreed mechanical testing	ASSEMBLY Trial fit with pin, tie and panel sample

TESTING | Performance applies only to the exact confirmed material, geometry, hardness, fixture and method.

CUSTOMIZATION & ORDERING

OEM PRODUCTION TO DRAWING OR SAMPLE



PROFILE Straight, curved, offset or T-head	GEOMETRY Length, widths, thickness and angle	OPENING Slot or retaining-hole dimensions
MATERIAL Steel grade, hardness and treatment	MATCHED SET Supply with form pins and wall ties	PACKING Bags, cartons, pails, cases and pallets

QUOTE INFORMATION

Wedge type • length • maximum/tip width • thickness • taper and travel • head profile • slot/hole dimensions • matching pin sample • material/hardness • quantity • packing • destination port

COMPATIBILITY | Pin-slot size, combined assembly thickness and required locking travel must be confirmed together.

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FAQ & TECHNICAL NOTES

PRACTICAL ANSWERS FOR SOURCING

PRODUCT ITEM	DETAILS
Wedge or wedge pin?	The shown product is a flat tapered locking wedge; some markets also call it a wedge pin.
Difference from form pin?	The form pin passes through panel holes; the wedge passes through the pin slot and locks it.
Difference from wedge bolt?	This is one part of a two-piece pin-and-wedge set; wedge bolts use another connection structure.
Available profiles?	Straight, curved, offset, T-head, slotted and retaining-hole versions.
Common sizes?	Approximately 70–100 mm long and 2.5–3.5 mm thick; final sizes are system-specific.
Matching pins available?	Yes. Stub, short, standard and long pins can be supplied and trial fitted.
Reusable?	Yes, when free from bending, cracks, mushroomed ends and excessive wear.
Sample production?	Yes. Drawings can be prepared from approved physical samples.
Test reports?	Available against agreed material, hardness, dimensions and test method.
Quotation requirements?	Type, geometry, pin sample, material, quantity, packing and destination port.

SAFETY | Qualified personnel must approve the formwork system. Remove any bent, cracked, worn or deformed wedge from service.



ALUMINUM FORMWORK LOCKING WEDGE

CUSTOM PIN-AND-WEDGE CONNECTIONS



SEND US YOUR DRAWING OR SAMPLE

We will confirm wedge profile, pin-slot fit, locking travel, material, testing, packing and sample approval before mass production.

PRODUCT ITEM	DETAILS
COMPANY	SHIJIAZHUANG EVERSTAR HARDWARE MACHINERY CO., LTD.
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