



VĨNH HƯNG®



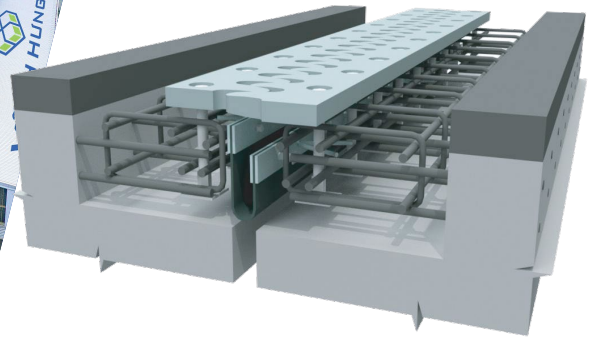
Vietnam Value

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VIETNAM'S NATIONAL BRAND

VINH HUNG TRADING, CONSULTING
AND CONSTRUCTION JOIN STOCK COMPANY

VHF FINGER EXPANSION JOINT



CERTIFIED
ISO 9001



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1. PRODUCT OVERVIEW

VHF finger expansion joint made by Vinh Hung Investment and Production Company Limited (Vinh Hung IP), includes 2 types: Welded connection and connection with bolt, in compliance with following: **TCVN 13067:2020, TCVN 11823:2017, AASHTO LRFD.**

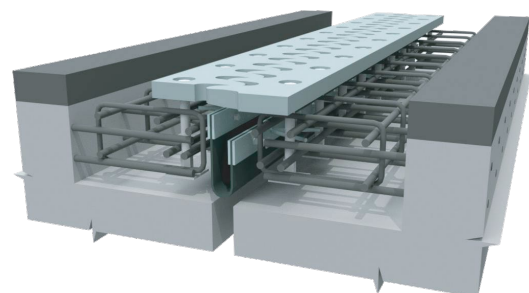
VHF finger expansion joint is integrally manufactured at Vinh Hung IP factory – the joint is made from finger steel plate with accessories such as high strength bolt, anchor steel systems and drainage system for expansion joint, etc.

VHF finger expansion joint has high accuracy and convenience for the new construction and installation, repair and replacement of the old expansion joints as well as inspection and maintenance works in service.

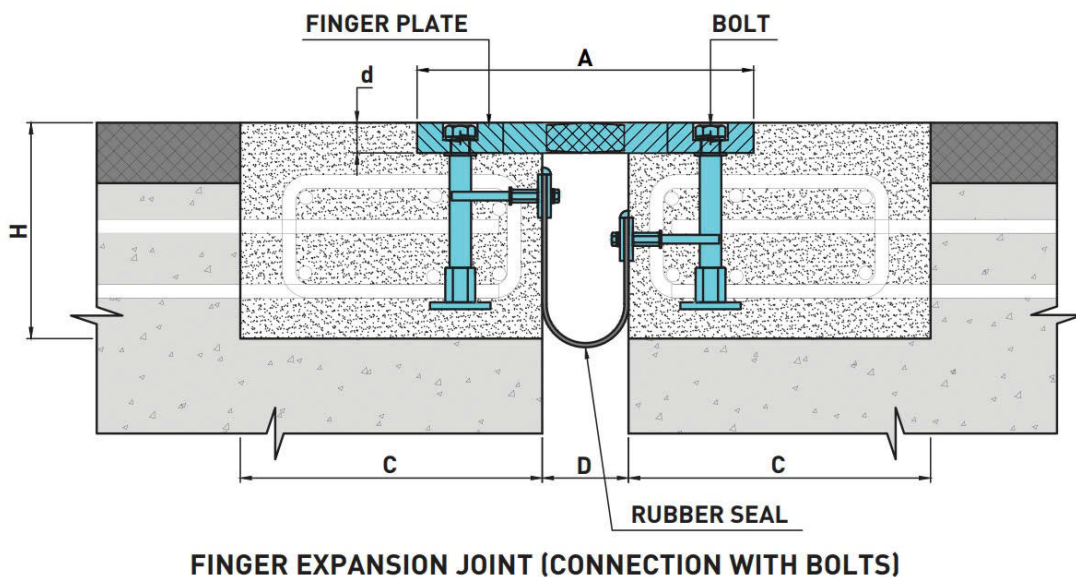
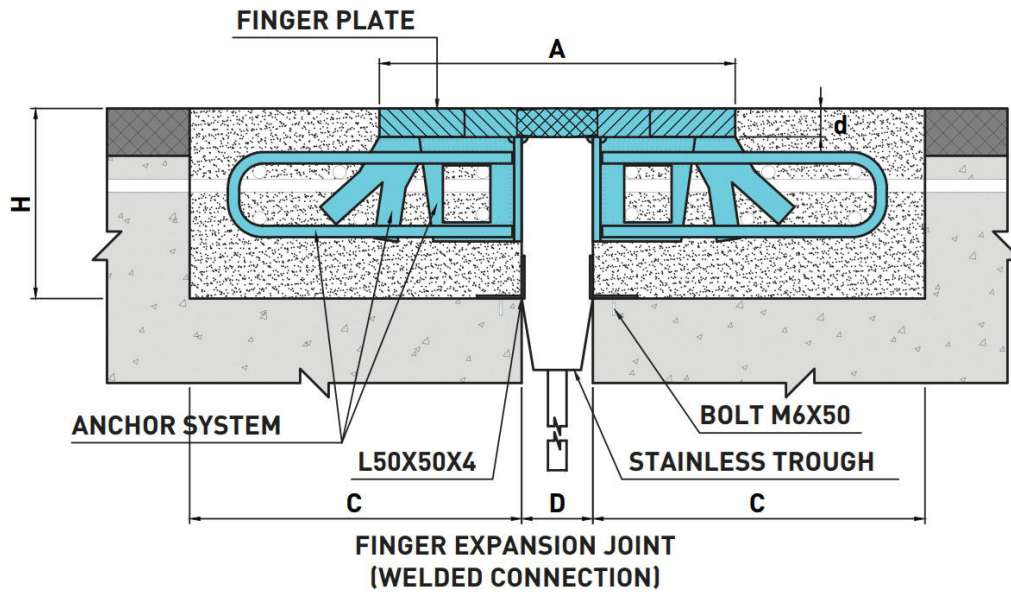
VHF finger expansion joint accommodates to medium movement and big movement, and can be used for both straight and skew bridges.

2. PRODUCT CHARACTERISTICS

- Totally accommodate to medium and large longitudinal movements, and also vertical and transversal movement if any.
- Simple installation, maintenance and replacement, which allows to replace individual finger plates in short period of time and for each lane.
- High loading resistance capacity, especially the moving load.
- Also available for skew bridges.
- Drainage system is designed to be totally water-tight and prevent dust and debris.
- Can be designed to be compatible with different thicknesses of bridge decks.
- To ensure the long-lasting durability, VHF finger expansion joint is protected from corrosion with methods such as: 2-component epoxy coating, PU-based painting (Polyurethane), hot dip galvanization according to ASTM A123 standard and especially the Al – Mg spraying method (at the ratio of 95% Al and 5% Mg) which ensure anti-corrosion durability of up to 100 years, proven by salt-spraying test in 6000 hours (8-hour dry-wet cycle repetition) under ASTM B117 standard.



3. TECHNICAL PARAMETERS



DIMENSIONS OF FINGER EXPANSION JOINT VHF-C15 ~ VHF-C400 (WELDED CONNECTION)

MODEL	DISPLACEMENT	d	A		D		C	H
			min	max	min	max		
VHF-C15	15	22	190	205	25	40	≥300	≥150
VHF-C20	20	22	230	250	30	50	≥300	≥150
VHF-C30	30	25	250	280	30	60	≥300	≥150

VHF FINGER EXPANSION JOINT

DIMENSIONS OF FINGER EXPANSION JOINT VHF-C15 ~ VHF-C400 (WELDED CONNECTION)								
MODEL	DISPLACEMENT	d	A		D		C	H
			min	max	min	max		
VHF-C40	40	30	240	280	20	60	≥350	≥200
VHF-C50	50	30	270	320	30	80	≥350	≥200
VHF-C60	60	30	290	350	20	80	≥350	≥200
VHF-C80	80	30	320	400	30	110	≥350	≥200
VHF-C100	100	30	320	420	30	130	≥350	≥200
VHF-C120	120	35	380	500	30	150	≥350	≥200
VHF-C140	140	35	390	530	40	180	≥350	≥200
VHF-C160	160	35	470	630	40	200	≥400	≥200
VHF-C180	180	35	480	660	40	220	≥400	≥200
VHF-C200	200	40	480	680	40	240	≥400	≥200
VHF-C210	210	40	490	700	40	250	≥400	≥240
VHF-C240	240	40	640	880	40	280	≥450	≥240
VHF-C250	250	40	650	900	40	290	≥450	≥240
VHF-C280	280	40	660	940	40	320	≥450	≥240
VHF-C300	300	40	660	960	40	340	≥450	≥240
VHF-C320	320	50	660	980	10	330	≥470	≥280
VHF-C350	350	50	830	1,180	10	360	≥500	≥280
VHF-C380	380	50	860	1,240	10	390	≥500	≥280
VHF-C400	400	55	880	1,280	10	410	≥500	≥290

DIMENSIONS OF FINGER EXPANSION JOINT VHF-C50 ~ VHF-C400 (CONNECTION WITH BOLTS)									
MODEL	DISPLACEMENT	d	A		D		C	H	BOLT
			min	max	min	max			(FxL)
VHF-C50	50	30	290	340	20	70	≥250	≥250	M16x180
VHF-C60	60	30	280	340	20	80	≥250	≥250	M16x180
VHF-C80	80	30	320	400	20	100	≥300	≥250	M16x180
VHF-C100	100	30	340	440	20	120	≥300	≥250	M16x180
VHF-C120	120	35	390	510	20	140	≥350	≥250	M16x180
VHF-C140	140	35	420	560	40	180	≥350	≥250	M20x180
VHF-C160	160	40	480	640	40	200	≥350	≥250	M20x180
VHF-C180	180	40	490	670	40	200	≥350	≥250	M20x180
VHF-C200	200	40	490	690	40	240	≥350	≥250	M20x180
VHF-C220	220	40	640	860	40	260	≥360	≥250	M20x180
VHF-C240	240	40	660	900	40	280	≥370	≥280	M20x180
VHF-C280	280	40	660	940	40	320	≥400	≥250	M20x180
VHF-C300	300	40	660	960	40	340	≥450	≥250	M24x220
VHF-C320	320	50	720	1040	40	360	≥450	≥300	M24x220
VHF-C350	350	50	830	1,180	40	390	≥450	≥300	M24x220
VHF-C380	380	50	860	1,240	40	420	≥500	≥300	M24x220
VHF-C400	400	50	880	1,280	140	440	≥550	≥300	M24x220

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4. INSTALLATION

Installation is critical to the lifespan of the expansion joint and smooth traffic over the expansion joint. Well-preparation of materials, equipment and professional manpower for joint installation is a must to ensure high-quality installation of expansion joint.

The installation method as mentioned below shall be strictly followed to guarantee the best performance of the joint in service.



INSTALLATION

Cut and clean the trench, adjust embedded bars, lay reinforcement bars on site.



Fix the deformed bars, install the fabricated joint, add distribution bars, anchoring bars to embedded bars.



Install formworks and pour non-shrink mortar or high-strength concrete, check the leveling of surface.



Cure concrete and allow traffic after concrete reaches the required strength.



VHF Finger Expansion Joints have been installed along the entire Quang Ngai – Hoai Nhon Expressway (Vietnam)

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