

# WABO<sup>®</sup>FLEX AIJ

## Moulded rubber segmental expansion joint system

### DESCRIPTION

**WABO FLEX AIJ** reinforced elastomeric molded rubber expansion joint system. All sections feature tongue and groove fittings for tight end-to-end mating across decks and at curbs and are steel reinforced.

It can be installed in new decks, or in older structures on rehabilitation. When properly installed, the **WABO FLEX AIJ** system will accommodate anticipated thermal movements reject debris and create a level, smooth-riding, wear-resistant surface.

### ADVANTAGES

#### Versatility

Combines the strength of steel and the flexibility of elastomer rubber

#### Durability

Steel reinforced elastomer provides a durable surface under traffic and adjusts readily to structural movement

#### Smooth ride

The **WABO FLEX AIJ** joint system's low profile and minimum open surface exposure prevent debris build-up and allow for a smooth ride. The partial confinement of elastomer reduces deflection under traffic loading.

#### Minimal open surface

Prevents accumulation of debris, ice and incompressible items. Provides a smooth riding surface

#### Unitized

Pre-moulded standard sections allow for lane closures and sectional working on repair project.

### RECOMMENDED FOR

- Low height joint sealing restrictions
- Bridges, decks and ramps
- Expansion joint application with maximum movement 330 mm
- New construction or repair and maintenance of existing joints

### TYPICAL PROPERTIES\*

The elastomer compound shall have the physical properties conforming to the following requirements.

Typical properties*	ASTM test method	Requirements
Hardness, Type A	D 2240	60 ± 5 points
Durometer	modified	
Tensile strength	D 412	15.0 MPa min
Elongation @ break	D 412	350 % min
Ozone Resistance, 96 hrs @ 100 F 30% strain, 25 pphm	D 1149 Method B	No cracks
Compression Set 22 hrs @ 158 F	D 395 Method B	30 % max
Ageing, 168 hrs @ 158 F	D 573	
<i>Hardness</i>	Meet or exceed the requirements of EN1337	
<i>Tensile strength</i>		
<i>Elongation @ break</i>		

\* Properties listed are based on laboratory controlled tests.

The steel angles embedded in the moulded elastomer panels are made of S235JR or S275JR EN10025 (equivalent to ASTM A36).

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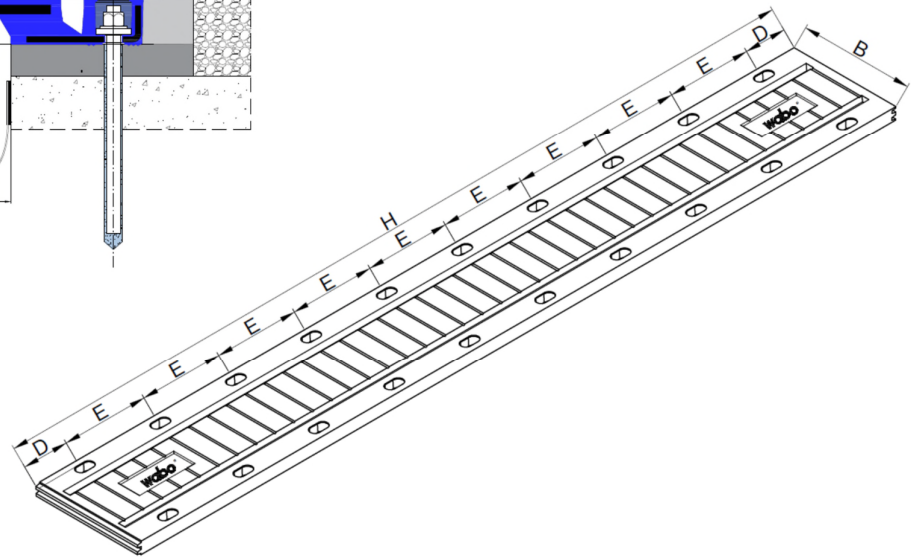
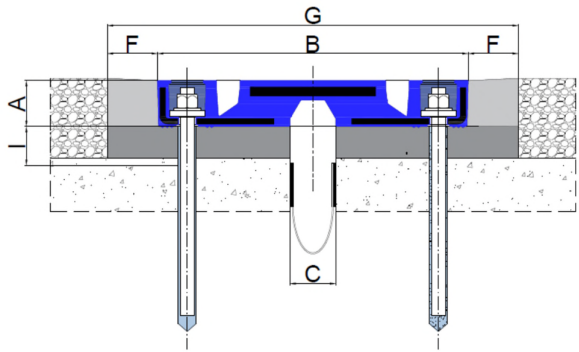
## SURFACE PREPARATION

Blockout base must be parallel with plane of riding surface. Sandblast blockout surfaces prior to installation.

## LIMITATIONS

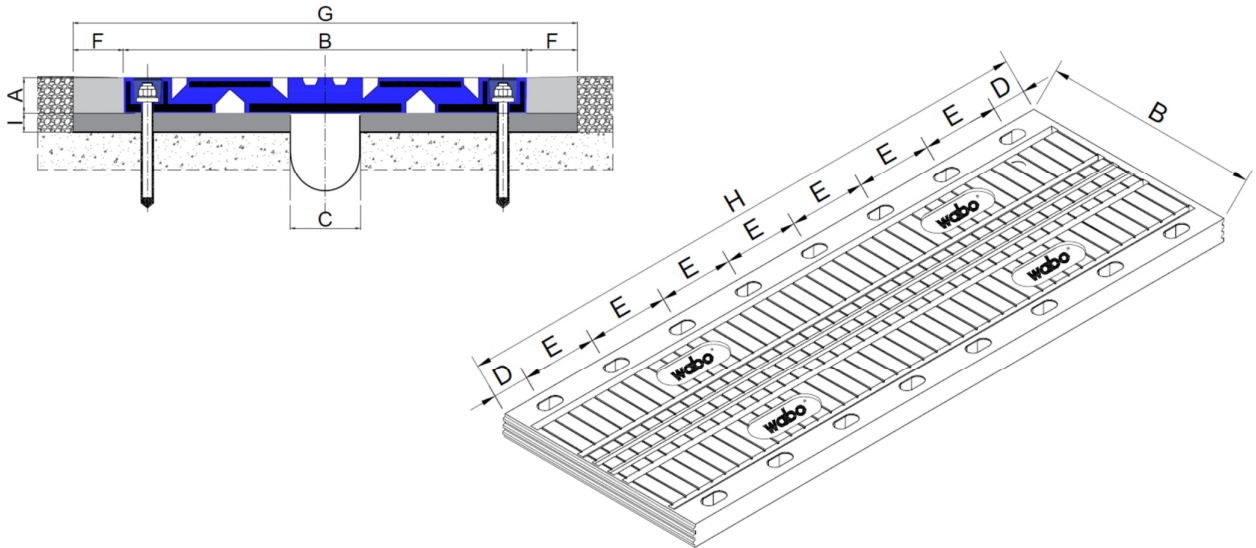
Watson Bowman Acme does NOT recommend the use of **WABO FLEX AIJ** joint system under the following conditions:

- On joints where the gap width exceeds the capacity of each respective profile.
- On joints where movements exceed 330 mm
- The bottom surface of the blockout must be parallel with the plane of the riding surface (true and flat)
- Base of blockout on both sides of gap must be at same elevation



Model	Service Total Movement	Dimensions (mm)								
		A	B	C (gap @ midrange temp.)	D	E	F	G	H	I
AIJ-50	50 mm	41	272	40	95/105	200	44	360	2000	var.
AIJ-80	80 mm	46	358	60	120/130	250	46	450	2000	var.
AIJ-100	100 mm	53	388	70	120/130	250	56	500	2000	var.
AIJ-120	120 mm	69	427	80	125	250	52	530	1000	var.
AIJ-140	140 mm	80	465	85	115/135	250	48	560	2000	var.
AIJ-160	160 mm	84	498	100	125	250	81	660	2000	var.

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Model	Service Total Movement	Dimensions (mm)								
		A	B	C (gap @ midrange temp.)	D	E	F	G	H	I
AIJ-200	200 mm	70	800	140	120/130	250	100	1000	2000	var.
AIJ-250	250 mm	78	880	160	120/130	250	100	1080	2000	var.
AIJ-330	330 mm	100	1100	220	125	250	100	1300	1000	var.

## INSTALLATION SUMMARY

- Prepare blockouts to proper dimensions and grades. Care shall be taken to ensure that all anchors are set at right angles to the bottom of blockout.
- Install **WABO FLEX AIJ** units starting at the curb.
- Proceed until reaching the field cut piece. Apply sealant to the ends of field cut pieces prior to final placement.
- Retorque all anchors approximately one hour after tightening.
- Fill bolts cavity with sealant and void between **WABO FLEX AIJ** sections and vertical face.

## Additional Requirements / Equipment

- Torque wrench to tighten anchors
- Pry bar to move or position panel
- Hydraulic ram assembly to adjust system for ambient temperature.

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## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBCC representative.

Extreme care should be taken for the selection of the right module considering gap size, movement and ambient temperature.

MBCC Group reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

MBS\_CC-UAE/Wabo\_Flex\_AIJ

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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