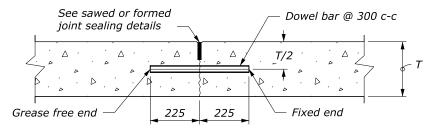


ISOLATION JOINT

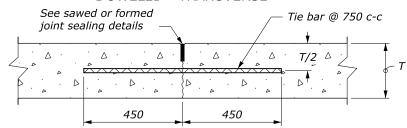
#### **CONTRACTION JOINT**

UNDOWELED - TRANSVERSE and UNTIED - LONGITUDINAL



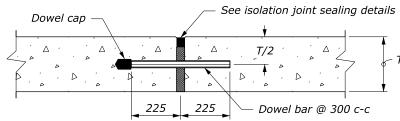
### **CONTRACTION JOINT**

DOWELED - TRANSVERSE



#### **CONTRACTION JOINT**

TIED - LONGITUDINAL



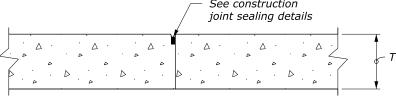
### ISOLATION/EXPANSION JOINT

DOWELED - TRANSVERSE

# Fixture or structure See isolation joint sealing details

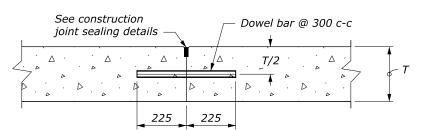
### **ISOLATION JOINT**

UNDOWELED - LONGITUDINAL



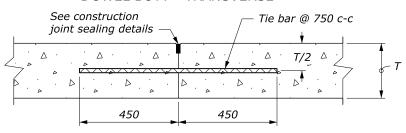
### **CONSTRUCTION JOINT**

PLAIN - TRANSVERSE or LONGITUDINAL



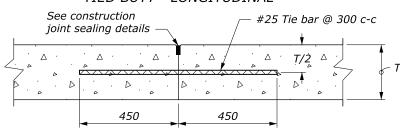
### **CONSTRUCTION JOINT**

DOWEL BUTT - TRANSVERSE



### **CONSTRUCTION JOINT**

TIED BUTT - LONGITUDINAL



### **CONSTRUCTION JOINT**

TIED BUTT - TRANSVERSE

#### *NOTE:*

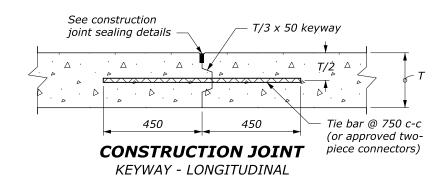
1. Use epoxy-coated material for all tie bars, dowels, and other steel used in the construction of concrete pavement.

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- 2. Deformed reinforcing bars or hook bolts may be used
- 3. Do not place tie bars within 380 mm of transverse joints.
- 4. Install isolation joints when abutting a fixed structure. Use expansion joint material extending the full depth and length of the concrete surface.
- 5. Transverse and longitudinal construction joints are not included in the joint layout plan. Use transverse and longitudinal construction joints sparingly. Submit planned construction joint locations for approval.
- 6. For construction joints, if tie bars and dowels are not set into concrete during placement, drill and anchor the tie bars and dowels into the existing concrete construction with epoxy resin.
- 7. Maintain joint sealant shape factor of 1:1; except when silicone sealant is used maintain the width to depth shape factor of 2:1 or as recommended by sealant manufacturer.
- 8. See Section 712 for joint material requirements.
- 9. See Standards M501-1 or M502-1 for reinforcment details.
- 10. Dimensions without units are millimeters.



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BAR SIZES					
PAVEMENT THICKNESS (T) (mm)	TIE BAR	DOWEL BAR DIAMETER (mm)			
T ≤ 200	16	25			
200 < T ≤ 250	16	32			
250 < T ≤ 300	19	43			

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY

METRIC STANDARD

## **MINOR CONCRETE PAVEMENT JOINTS**

STANDARD APPROVED FOR USE 3/1996 STANDARD M501-2

13 typ. ►		3 typ. <u></u>		<i>3 typ.</i>
T/3  A  A  A  A  A  A  A  A  A  A  A  A  A	Preformed joint filler	T/3  A A A A A A A A A A A A A A A A A A A	— Joint sealant — — Backer rod ——	T/3.

### MINOR CONCRETE PAVEMENT JOINT SEALING DETAILS

CONSTRUCTION JOINT

NO SCALE

SAWED OR FORMED JOINT