

CHEMICAL ANCHOR SYSTEMS

Specification Reference: 901.05

SM Material Code: 506M00020

This list documents the approval of chemical systems for anchoring deformed steel rebar or grouting load transfer dowels. These chemical anchor systems are approved for pullout loads on deformed rebar which do not exceed the yield requirement for the corresponding rebar size of grade 60 (420) steel. These systems are applicable for rebar sizes not exceeding ENG. #7 (METRIC #22). If the rebar exceeds size ENG. #7 (METRIC #22), the manufacturer shall provide a type B certification for the pullout load of the specified rebar. Testing will be in accordance with ASTM E 488.

Systems shall be installed in accordance with the manufacturer's instructions. Horizontal installations of rebar or dowels require special consideration for proper retention of the material in the hole. The following spacing and edge distance requirements shall be met.

Embedment (E)	Spacing Between Anchors min. (S)	Edge Distance min. (M)
<6.0d	2.00E	1.00E
6.0d to =<8.0d	1.50E	1.00E
>8.0d	1.00E	0.75E

(d = diameter of rebar)

If the above requirements are not satisfied, contact the Materials and Tests Division.

It should be noted that FHWA Technical Advisory TA 5140.30 issued on March 21, 2008 strongly discourages the application of anchor systems utilizing adhesives for permanent sustained tension applications or overhead applications until the FHWA is satisfied with an improved certification process that is developed to ensure long-term creep performance and that recognizes the effect of overhead installation.

Source Code	Manufacturer Product Name	Approval Number	Comments
9540	ADHESIVES TECHNOLOGY CORP----- ASF - 1000 FAST CURE ACRYLIC ADHESIVE 10.1 AND 28 oz. CARTRIDGE SYSTEMS	W168050	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND HS200	W028050	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1	W038068	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1300	W028984	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 2100	W078050	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 2300	W028985	