SETTING THE WORLD STANDARD FOR REBAR POSITIONING IN CONCRETE WALLS

REBAR POSITIONING COST ANALYSIS

DATA RECEIVED

NAME	JIM DAVIS
COMPANY	YANKTON CONSTRUCTION COMPANY
PROJECT	CENTRAL BANK FOOTING STEM WALL
CONTACT	jim@yanktonconstruction.net
SAMPLES	YES
HEIGHT	15'
LENGTH	135'
THICKNESS	14"
SINGLE / DOUBLE MATT	DOUBLE
SIDE FORM SPACERS	2" CONTINOUS BOLSTER INSIDE FACE, 3" CONTINOUS OUTSIDE FACE
INTERNAL SPREADER	FABRICATED REBAR SPREADER - 36" TOTAL LENGTH
SPEC. COND.	NONE

INSTALLATION COST EACH

	TIME (S)	LABOR	MATERIAL	TOTAL	JOB TOTAL
PLASTIC E-ZBAR	30	$0.42	$1.40	$1.82	$247.07
METAL E-ZBAR	45	$0.63	$2.42	$3.05	$414.12
CURRENT METHOD	150	$2.08	$5.50	$7.58	$1,031.33

BUILT UP LABOR RATE ($/MH)	50
NUMBER OF INSTALLATIONS	136

SAVINGS FOR LENGTH OF WALL

	TIME (MH)	LABOR SAVINGS	MATERIAL SAVINGS	TOTAL SAVINGS
PLASTIC E-ZBAR	4.53	226.67	557.60	784.27
METAL E-ZBAR	3.97	198.33	418.88	617.21

ADVANTAGES OF E-ZBAR FOR THIS CASE STUDY

- Less contact with form faces compared to bolsters
- Significant time, labor, and material savings.
- E-ZBar is easier to store and warehouse than fabricated rebar spreaders.
- Pre-assembly of E-ZBar rebar spreaders reduces the time window needed to properly position the wall steel
- Unused fabricated rebar spreaders are scrap at the end of a project while E-ZBar components are easily transferred to another project.
- Remove the top row of E-ZBar spreaders when concrete nears the top of the wall and reuse them. In this case study it would save another $ 56.08 when using plastic coil rod and $ 96.90 when using metal coil rod.
- Doubles as a form spreader for forming systems with no internal spreading action. Potential additional savings in labor and materials.