The following restraining slab requirements are based on backfill heights and machinery loadings as indicated on the associated drawings.
The restraining slab length shown is the minimum length required, assuming a 5 in. slab thickness.

Wisconsin Std. Wall Drawing	NONE		MACHINERY LOADING CONDITIONS (SEE DESIGN GUIDE 8)						Load condition 2 (Full Inside), no machinery. See note 2.	
	Backfill Ht. (ft.)	Req. Slab Length (ft.)	A (See note 1) Backfill Ht. (ft.)	A (See note 1) Req. Slab Length (ft.)	B Backfill Ht. (ft.)	B Req. Slab Length (ft.)	C Backfill Ht. (ft.)	C Req. Slab Length (ft.)	Backfill Ht. (ft.)	Req. Slab Length (ft.)
PA-025C 2' to 5' backfill	8	0	Not designed for this loading		Not designed for this loading		Not designed for this loading		8	2"
	7	0							7	3"
	6	0							6	5"
	5	0							5	6"
	4	0							4	2"
	3	0							3	0
	2	0							2	0
EFP 60	8	40	8	40	8	64	8	92	8	6"
PA-025B 5' to 8' backfill	7	21			Not designed for this loading	40	Not designed for this loading	67	7	0
	6	5				23		46	6	0
	5	0				8		27	5	2"
EFP 60	8	40	8	40	8	64	8	92	8	6"
PA-028D 5' to 8' backfill	7	27			Not designed for this loading	40	Not designed for this loading	67	7	0
	6	5				23		46	6	0
	5	0				8		27	5	2"
EFP 60	8	40	8	40	8	64	8	92	8	6"
PA-028A 5' to 8' backfill	7	21			Not designed for this loading	40	Not designed for this loading	67	7	0
	6	5				23		46	6	0
	5	0				8		27	5	2"
EFP 60	8	40	8	40	8	64	8	92	8	6"
PA-028C 2' to 5' backfill	7	0	Not designed for this loading		Not designed for this loading	40	Not designed for this loading	67	7	0
	6	0				23		46	6	0
	5	0				8		27	5	2"
EFP 85	8	85	8	85	8	104	8	144	8	6"
PA-025F 3' to 8' backfill	7	55			Not designed for this loading	79	Not designed for this loading	109	7	0
	6	31				49		77	6	0
	5	11				28		49	5	0
EFP 85	4	0				8		26	4	2"
	3	0				0		7	3	4"
	2	0				0		0	2	4"
	1	0				0		0	1	5"
	0	0				0		0	0	6"
	8	71	8	71	8	80	8	144	8	6"
PA-028E 0' to 8' backfill	7	43				63		109	7	0
	6	20				37		77	6	0
	5	0				18		49	5	0
Machinery on nonstructural slab	4	0				0		26	4	0
	3	0				0		7	3	2"
EFP 85	2	0				0		0	2	4"
	1	0				0		0	1	5"
	0	0				0		0	0	6"

Note 1: For Structural Slab or Pullaroff loading, Backfill Only condition (no machinery loading) governs the restraining slab requirement.

Note 2: A "0" following the length indicates that the restraining slab must be poured at the same time as the wall footing is poured and that the restraining slab is tied to the wall footing with tension steel.

NRCS

_____ COUNTY, PENNSYLVANIA

SLIDING RESTRAINT FOR 8-FOOT R/C WALLS

(ADAPTED FROM WI-580B, APRIL 2005)