' high x 24' long knife bottom, 6" wall, 1985

TRENCH SHIELD #1

2	PRODUCTION, INC	D.		P.O. BOX 24126 L/ PHONE 51	9	EFFICIENCY TRENCH SHIELD							
NOD	DEL 624	A		SE	RIAL NUMBER 100447								
	REFERENCE TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS, VOL. 54, NO. 209, 10-31-89, PART 1926, SUBPART P												
	SHIELI) SIZE		PSF RATING	MAXIMUM ALLOWABLE DEPTH OF CUT-FEET D								
					VATED								
	HEIGHT LENG FEET FEE			MAXIMUM LATERAL EARTH PRESSURE CAPACITY AT TRENCH BOTTOM IN POUNDS PER SOUARE FOOT	MOIST SOIL 30 PSF PER FOOT OF DEPTH	WET MUCKY SOIL 50 PSF PER FOOT OF DEPTH	HYDROSTATIC PRESSURE- SUBMERGED SOIL 82 PSF PER FOOT OF DEPTH						
	6'	24		480#	16'	9'	5'						
	LIMITAT	IONS IN	USE OF	TABLE	DESCRIPTION	DESCRIPTION	DESCRIPTION						
1.	TRENCH SHIELD TO AS SHOWN AND IN MANUFACTURER'S	INSTRUCTIO	CE WITH ONS.		MOIST FINE SAND, SAND-GRAVEL OR CLAY SOILS WITH	WET MUCKY CLAY- SILT SOILS WITH LIQUID PRESSURE	SATURATED MUCK, SILT, SAND-GRAVEL OR CLAY SOILS						
2.	ACCORDING TO O	OF SHIELD TO SHA REGULA	O BE LAID E	BACK	NOT EXCEEDING 30		PRESSURE NOT						
3.	SOILS YIELDING LA EXCEEDING THOSE VERIFICATION BY	E TABULATED	REQUIRE	AES	PSF PER FOOT OF DEPTH	DEPTH	PER FOOT OF DEPTH						
4.	CONSULT MANUFA	CTURER WH	EN BOTTON	A OF		_	A STATE OF THE STA						
5.	KNIFE EDGE EMBE UNLESS NOTED O	DMENT REO		N SUPPLIED	LLY BACK ACCORDING TO OSHA REGULATIONS								
6.	KNIFE EDGE EMBE DESIGNS WITH HY	DMENT REOF	UIRED FOR PRESSURE.	ALL SHIELD	REGULATIONS	8	1'-6" MIN.						
7,	WATER TABLE IS A ADJUST SOILS CU	T OR BELOW	TRENCH E	DIA STAIG MOTTOI									
8.	ADDITIONAL SHIEL	DS MAY BE S	STACKED W	ON HTI		0							
9.	DEPTHS OF CUTS EXAMPLES OF VAR ACTUAL SOIL PRES	RIOUS SOIL C	ONDITIONS	S. VERIFY									
	ANY MODIFICATION ALLOWED UNLESS EFFICIENCY PROD	APPROVED	IN WAITING	DT i BY		****	KHIFE EDDE SEE HOTES						
Willing	ALLEN NIEBER BANGHER NO. 17221		CERTIFIED BY: McClurg & ASSOCIATES, INC FEBRUARY 15, 1990		. CONSULTING ENGINEE	ERS ©1990 EFFICIE ALL RIGHTS RE	NCY PRODUCTION, INC.						
SHEEFFEE	NIEBER ENGINEER HO. 17221	YOWEER				OR MORE OF THE FOLLOWING U.S. PATENT NUMBERS: 090,365-4,114,383-4,259,028 WING CANADIAN PATENT NUMBERS: 1,062,683-1,062,684							
39	ADFESSION POFESSION	MINIMAN.	USE THIS PRODUCT ONLY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, OR LOCAL LAWS										
eminue.													

Any use of this product not specifically described in the attached certification plate could cause cave-in, collapse, or structural failure resulting in death or serious injury.

6' high x 20' long knife bottom, 4" wall box, 1985

TRENCH SHIELD #2

7	PRODUCTION, INC	c.				ANSING, MI 48909 7-349-4620		EFFICIENC TRENCH SHIEL	
MOD	DEL 620) XLDF			SE	RIAL NUMBER	101003		
		REFER	REGULAT	CCUPATIONAL SAFE FIONS. VOL. 54, NO.	TY A 209,	ND HEALTH ADMINISTR 10-31-89, PART 1926, SL	ATION RULES AND	-	
	SHIELD SIZE			PSF RATING MAXIMUM ALL		OWABLE DEPTH OF CUT-FEET			
						SOIL TYPE TO BE EXCAVATED			
,	HEIGHT FEET	LENG FEI		MAXIMUM LATER/ EARTH PRESSUR CAPACITY AT TRENCH BOTTOI IN POUNDS PER SOUARE FOOT	RE I.I.	MOIST SOIL 30 PSF PER FOOT OF DEPTH	WET MUCKY SOIL 50 PSF PER FOOT OF DEPTH	HYDROSTATIC PRESSURE- SUBMERGED SO 52 PSF PER FOOT OF DEPTH	
	6'	20	1	690#		231	13'	81	
1.	TRENCH SHIELD TO AS SHOWN AND IN MANUFACTURER'S	ACCORDAN INSTRUCTION	BLED AND I CE WITH DNS.	NSTALLED		DESCRIPTION MOIST FINE SAND, SAND-GRAVEL OR CLAY SOILS WITH LIQUID PRESSURE	DESCRIPTION WET MUCKY CLAY- SILT SOILS WITH LIQUID PRESSURE NOT EXCEEDING 50	DESCRIPTION SATURATED MUC SILT, SAND-GRAV OR CLAY SOILS WITH LIQUID	
3.	ACCORDING TO OSHA REGULATIONS.					PSF PER FOOT OF DEPTH	PSF PER FOOT OF DEPTH	PRESSURE NO EXCEEDING 82 P PER FOOT OF DEPTH	
4.	CONSULT MANUFACTURER WHEN BOTTOM OF SHIELD IS NOT AT TRENCH BOTTOM.					Conta Hale All			
5.						LAY BACK ACCORDING	The state of the s		
6.	. KNIFE EDGE EMBEDMENT REQUIRED FOR ALL SHIELD DESIGNS WITH HYDROSTATIC PRESSURE.					LAY BACK ACCORDING TO OSHA REGULATIONS		17-6" MIN.	
7.	WATER TABLE IS A ADJUST SOILS CU	AT OR BELOW	TRENCH	DINTS AND BOTTOM					
8.	ADDITIONAL SHIELDS MAY BE STACKED WITH NO PENALTY IN DEPTH OF CUT.						D		
9.	DEPTHS OF CUTS EXAMPLES OF VAR ACTUAL SOIL PRE	RIOUS SOIL (CNDITIONS	VERIFY					
	ANY MODIFICATIO ALLOWED UNLESS EFFICIENCY PROD	S APPROVED DUCTION, INC	IN WRITING	OT B BY			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NATE EDOE SEE NO.	
Marke	THE OF MICHIO		McCLL	RTIFIED BY: CCLURG & ASSOCIATES, INC. 1 EBRUARY 15, 1990		CONSULTING ENGINEE	ERS ©1990 EFFICIE ALL RIGHTS R	NCY PRODUCTION, ESERVED	
CHINGS STATED	NIEBER ENGINEER NO. 17221	Sydween Dominists		ONE OR MORE OF T	THE F	ONE OR MORE OF THE FOLLOWING U.S. PATENT NUM 4.090,365-4,114,383-4,259,028 LLOWING CANADIAN PATENT NUMBERS: 1,062,683-1,0		2,683-1,062,684	
	THE TORESSIONAL WHITE			USE THIS PRODUCT ONLY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, OR LOCAL LAWS					

Any use of this product not specifically described in the attached certification plate could cause cave-in, collapse, or structural failure resulting in death or serious injury.