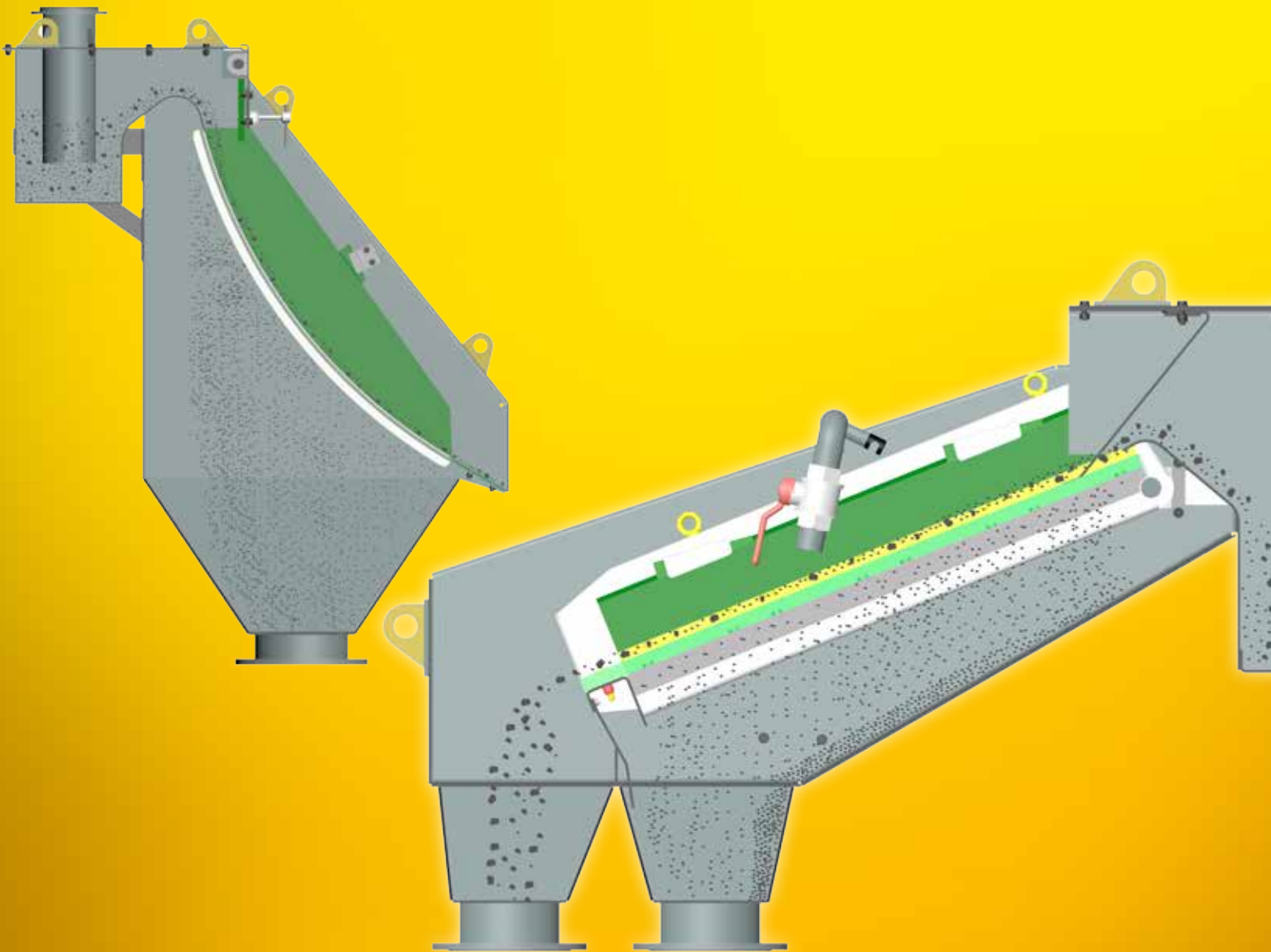


TEMA ISENMANN

Sieve Bends and Static Screens



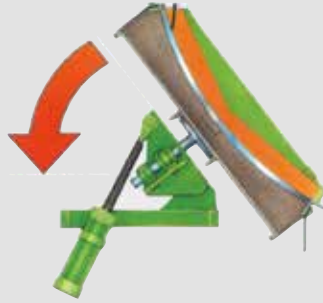
Screening Solutions

Sieve Bends and Static Screens

Technical Information

Typical Applications

- Media recovery
- Dewatering
- Desliming
- Trash removal
- Can be used in conjunction with Vibrating Screens



New Developments and Dimensions

The Reversible Sieve Bend housings can have either a pneumatic or hydraulic tilting system incorporated into the swivel mechanism for:

- Reduced labour requirements
- Improved safety conditions
- Reduced chance of feed error (set to lift housing flush with feed chute)

Sieve Bend Dimensions

800 mm Arc Length

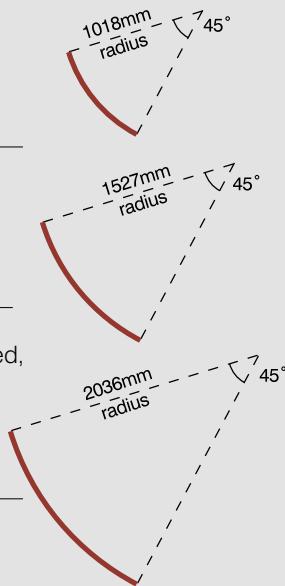
- Used where there is a height restriction
- Used for media recovery

1 200 mm Arc Length

- Used where maximum drainage is required, but the height does not allow 1600mm developed length

1 600 mm Arc Length

- For maximum drainage
- Reduced effect of any feed error



Non-standard Sieve Bends (60 degree, different radii and developed lengths) can be supplied for existing installations.

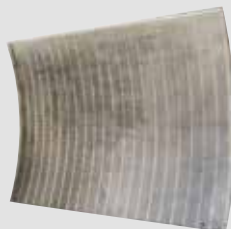
Polyurethane Sieve Bends

- Long life
- Constant cut-point maintained
- Self-supporting internal frame
- Continuous slot modules designed to be comparable to wedge wire
- Deflector strips
- Repairable
- Less frequent need for turning

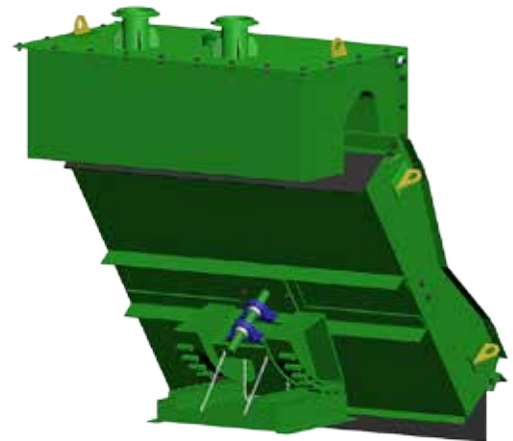
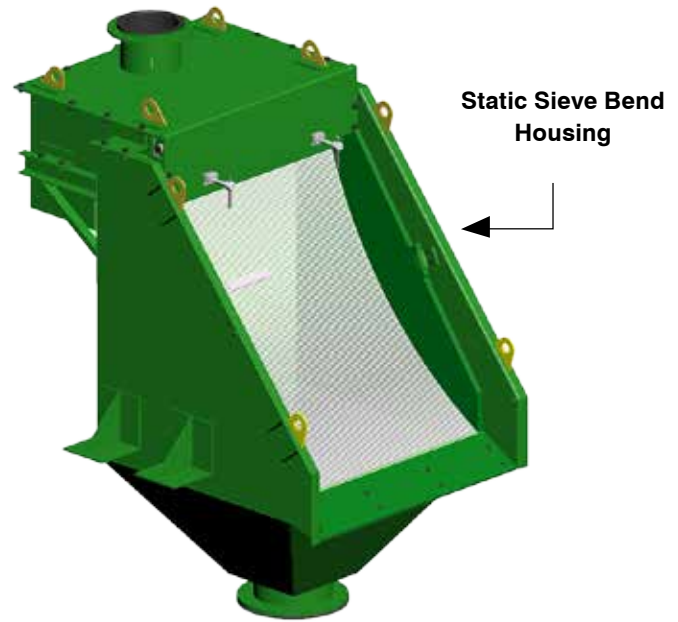



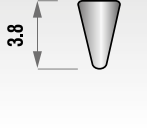
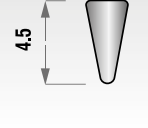
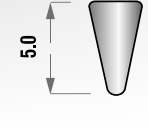
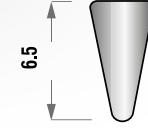
Wedge Wire Sieve Bends

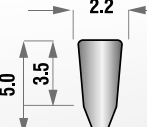
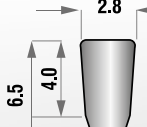
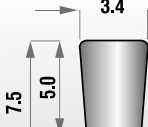
- Sharp cutting action
- Maximum open area and drainage
- Wide range of profiles available
- Abrasion resistant 430 stainless steel and corrosion resistant 304 stainless steel standard supply

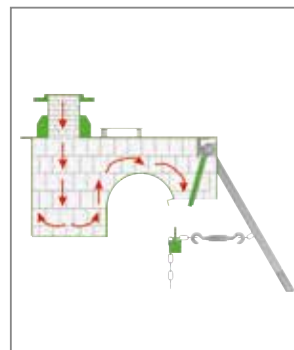


Alternate Feed Chute Designs

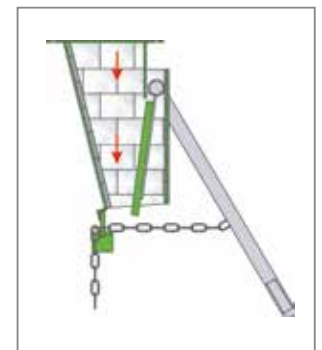


Longitudinal profiles	CIP 2.0		28cp 2.2		28sb 2.2		34sb 2.8		42sb 3.4	
										
Wx(cm ³)	0.0014		0.0027		0.0030		0.0043		0.0087	
S(mm)	=7.5		=8.4		=9		=9.5		=11	
slot width w(mm)	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²
0.2	9.1	18.6	8.3	19.9	8.3	25.8	6.7	29.1		
0.25	11.1	18.3	10.2	19.5	10.2	25.3	8.2	28.8		
0.315	13.6	18.0	12.5	19.0	12.5	24.6	10.1	28.1	8.5	34.5
0.4	16.7	17.5	15.4	18.5	15.4	24.0	12.5	27.6	10.5	33.0
0.5	20.0	17.0	18.5	17.9	18.5	23.2	15.2	26.9	12.8	32.3
0.63	24.0	16.3	22.3	17.3	22.3	22.4	18.4	26.4	15.6	31.4
0.8	28.6	15.7	26.7	16.4	26.7	21.3	22.2	25.0	19.0	30.3
1.0	33.3	15.0	31.2	15.6	31.2	20.2	26.3	23.9	22.7	29.2
1.25	38.5	14.2	36.2	14.7	36.2	19.1	30.9	22.7	26.9	27.8
1.4	41.2	13.8	38.9	14.2	38.9	18.4	33.3	22.0	29.1	26.9
1.6	44.4	13.3	42.1	13.7	42.1	17.7	36.4	21.2	32.0	26.1
1.8	47.4	12.9	45.0	13.1	45.0	17.0	39.1	20.4	34.6	25.3
2.0	50.0	12.5	47.6	12.6	47.6	16.3	41.7	19.8	37.0	24.4
2.24	52.8	12.1	50.4	12.1	50.4	15.7	44.4	19.0	39.7	23.6
2.5	55.6	11.6	53.2	11.6	53.2	15.0	47.2	18.2	42.4	22.7
2.8	58.3	11.2	56.0	11.3	56.0	14.6	50.0	17.5	45.2	21.8
3.15	61.2	10.8	58.9	10.6	58.9	13.7	52.9	16.6	48.0	21.0
3.55	64.0	10.4	61.7	10.1	61.7	13.1	55.9	16.0	51.0	19.6
4.0	66.7	10.0	64.5	9.6	64.5	12.4	58.8	15.1	54.0	19.0
4.5			67.2	9.1	67.2	11.8	61.6	14.5	57.0	18.1
5.0			69.4	8.7	69.4	11.2	64.1	13.8	59.5	17.2
5.6							66.7	13.2	62.2	16.5
6.3							69.2	12.4	64.9	15.3
7.1							71.7	11.8	68.2	14.2
8.0							74.0	11.0	70.2	12.3
10.0							78.1	9.9	74.6	11.7

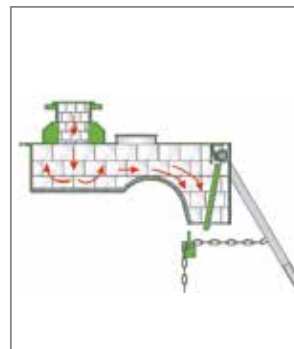
Longitudinal profiles	34sbb 2.2		42sbb 2.8		50sbb 3.4	
						
Wx(cm ³)	0.0077		0.0077		0.0150	
S(mm)	=11.5		=11.5		=12	
slot width w(mm)	a%	weight kg/m ²	a%	weight kg/m ²	a %	weight kg/m ²
0.2	8.3	34.5				
0.25	10.2	34.0				
0.315	12.5	33.5	10.1	38.7		
0.4	15.4	33.0	12.5	38.2	10.5	47.7
0.5	18.5	32.0	15.2	37.2	12.8	46.6
0.63	22.3	31.5	18.4	35.9	15.6	45.2
0.8	26.7	30.0	22.2	34.3	19.0	43.5
1.0	31.2	29.0	26.3	32.8	22.7	41.6
1.25	36.2	28.0	30.8	31.0	26.9	39.5
1.4	38.9	27.0	33.3	30.0	29.1	38.5
1.6	42.1	26.0	36.3	28.8	32.0	37.3
1.8	45.0	25.5	39.1	27.7	34.6	35.8
2.0	47.6	24.5	41.6	26.7	37.0	34.7
2.24	50.4	23.5	44.5	25.6	39.7	33.5
2.5	53.2	22.8	47.1	24.5	42.4	32.1
2.8	56.0	21.8	50.0	23.4	45.0	31.0
3.15	58.9	21.0	52.9	22.3	48.0	29.0
3.55	61.7	19.5	55.9	21.1	51.0	28.0
4.0	64.5	19.0	58.8	20.0	54.0	26.6
4.5	67.2	18.0	61.6	18.9	57.0	25.0
5.0	69.4	17.2	64.1	17.9	59.5	23.9
5.6	71.8	16.5	66.6	17.0	62.2	22.7
6.3	74.1	15.5	69.2	16.0	64.9	22.0
7.1	76.3	14.0	71.7	15.0	68.2	20.0
8.1	78.4	12.5	74.0	14.0	70.2	18.6
10.0	82.0	11.5	78.1	12.4	74.6	16.5



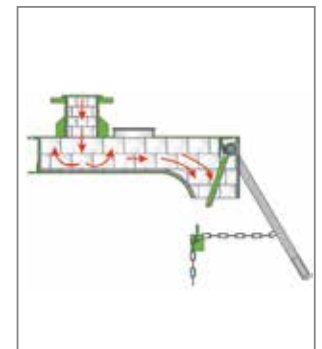
Stilling feed chute



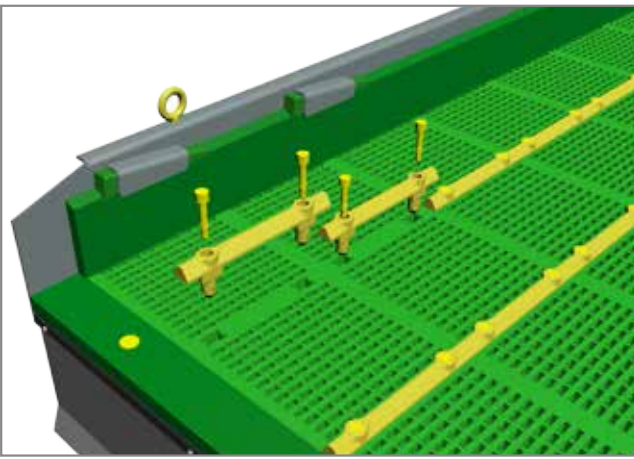
Pinch chute



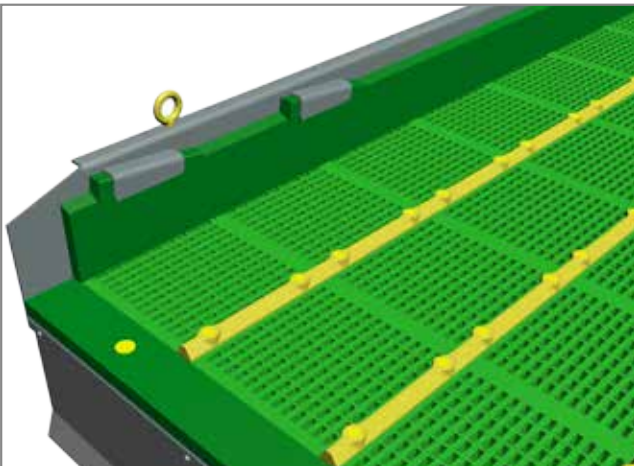
Shallow stilling feed chute



Flat bottom feed chute



Plug-in Deflectors being installed



Plug-in Deflector prevents tramping

Linings

- A variety of linings are available to suit all applications:
- High alumina ceramic tiles for long life in abrasive applications
- Wear resistant epoxies for long life and reduced fire hazard
- Impact resistant rubber lining

Feed Chutes

The feed chute is either a flat bottomed feed chute for valuable minerals, a pinch chute type for large particles or stilling feed boxes for -15 mm particle sizes.

The stilling feed chute arrangement is to reduce the velocity and turbulence and spread the feed evenly across the screen width to optimise efficiency.

Static Screen Dimensions

Multotec manufactures a range of Static Screens complete with feed chute, housing, screen deck and integral under pan from 305 to 3 000 mm wide and 915 to 6 100 mm long.

Screen Panels

The screen panels are generally standard modular polyurethane or rubber 305 x 305 x 30 mm thick panels with slotted apertures in the direction of flow.

Static Screen Design

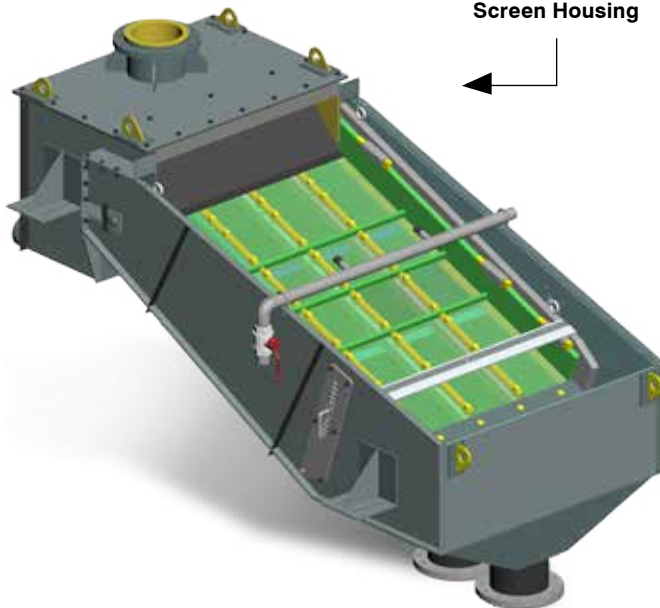
- Designed to suit customer requirements
- Typically inclined between 27° and 35° down
- Fixed units are at a set, predetermined angle
- Adjustable units are pivoted at one end and during commissioning the optimum slope is determined to maximise screening efficiency

Plug-in Deflectors

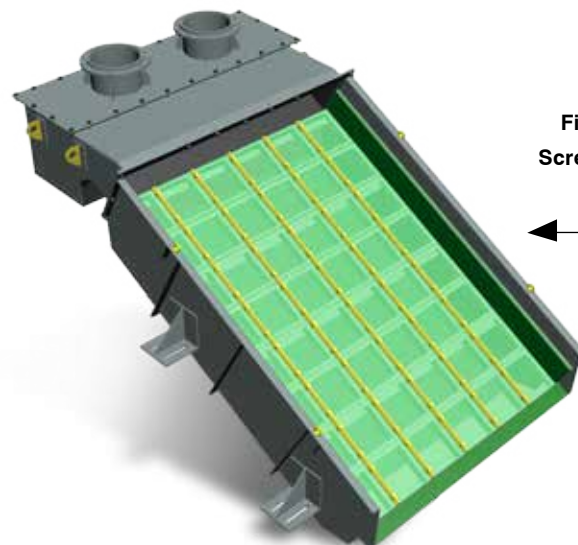
Static Drain Screens are fitted with deflector strips as a standard.

- Replaces pin and sleeve
- Minimises tramping along solid borders of panel
- Deflects material onto the screening surface, maximising screening efficiency

**Adjustable Static
Screen Housing**



**Fixed Static
Screen Housing**





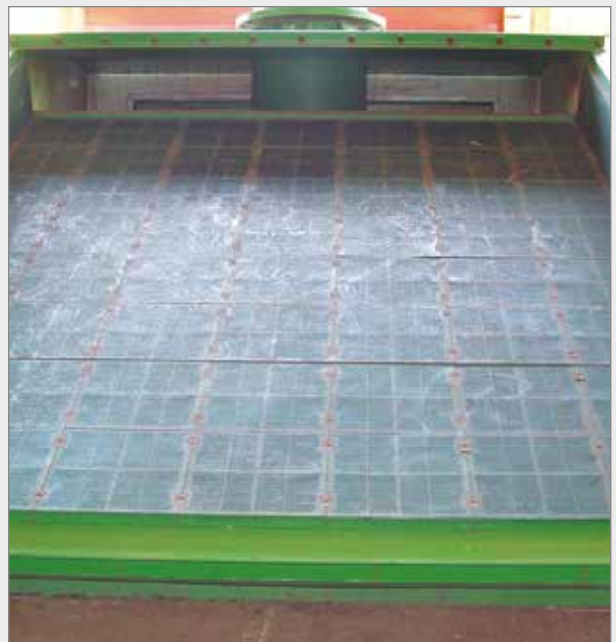
Static Screen Housing



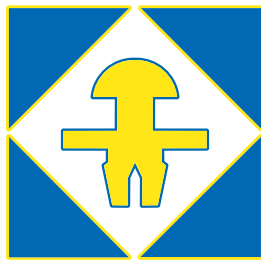
**Stilling feed chute lined with ceramic tiles
(optional rubber lining).**



**Static Screen Housing complete with reversible feed
launder system.**



**Static Screen Housing with modular polyurethane
panels installed (optional Polywedge panels).**



TEMA ISENMANN

Screening Solutions
Call (859) 252-0613
Email: sales@temaisenmann.com



Visit www.temaisenmann.com to learn more!