TECHNICAL INFORMATION
Expansion Joint Questionnaire

Date: _____

Company Name: _____ Contact Person: _____

Address: _____ Position: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

Order No.: _____ Project No.: _____

Project: _____ Quantity: _____

Item No.: _____

1. Medium

☐ Flue gas ☐ Air ☐ Waste gas ☐ other: _____

☐ Composition according to enclosed analysis

☐ Dry ☐ moist

Dust ☐ no ☐ yes: _____ content: _____ oz/ft3

Solid particles ☐ no ☐ yes: _____ content: _____ oz/ft3

Grain size: _____

Flow rate: _____ ft3/h Flow velocity: _____ ft/s

Direction of flow: ☐ horizontal ☐ vertically up ☐ vertically down

☐ diagonally up ☐ diagonally down

Temperature falling down below dewpoint level ☐ no ☐ yes Dew point: _____ °F

Condensate ☐ strongly acid ☐ slightly acid ☐ neutral ☐ slightly basic ☐ strongly basic

2. Temperatures

Temperature of medium: _____ °F Design temperature: _____ °F Excursion temperature _____ °F

Duration of individual excursions days: _____ hours: _____ minutes: _____

Duration of excursions per year days: _____ hours: _____ minutes: _____

Ambient temperature _____ °F Standard value: 122 °F with free convection

Radiation impeded ☐ no ☐ yes, by: _____

Passive radiation by components ☐ no ☐ yes, by: _____

External insulation ☐ no yes! Has to be confirmed by manufacturer

3. Pressure

Operating Temperature: _____ psi Neg. op. pressure: _____ psi Design pressure: _____ psi

Transient pressure ☐ no ☐ yes, from: _____ psi to: _____ psi Frequency: _____

Surge load ☐ no ☐ yes, from: _____ psi to: _____ psi Frequency: _____

Excursion pressure: _____ psi Neg. op. pressure: _____ psi Duration of excursion: _____ h

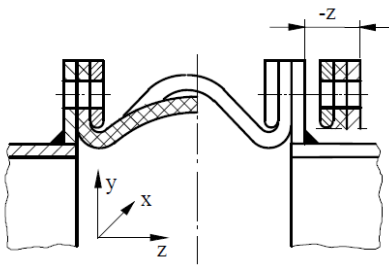
Excursion frequency: _____ per: _____ at a temperature of _____ °F

4. Specified Tightness

☐ without ☐ Flue gas tight acc. to TI-002 ☐ nekal tight acc. to TI-003

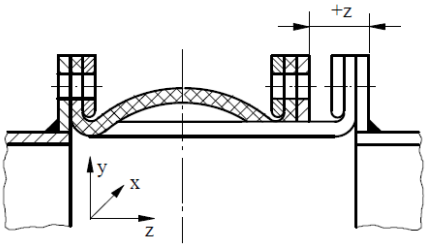
5. Movements

Axial Compression



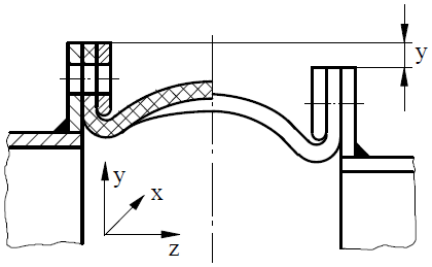
- z: _____ in

Axial Elongation



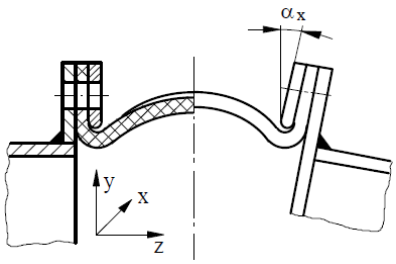
+ z: _____ in

Lateral Offset



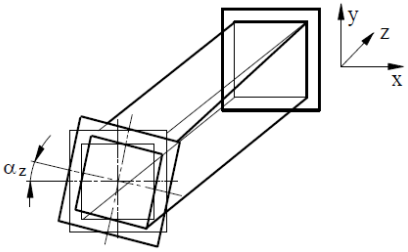
x: _____ in; y: _____ in

Angular Movement



ax: _____ ° ay: _____ °

Torsion



az: _____ °

Vibration

☐ no ☐ yes

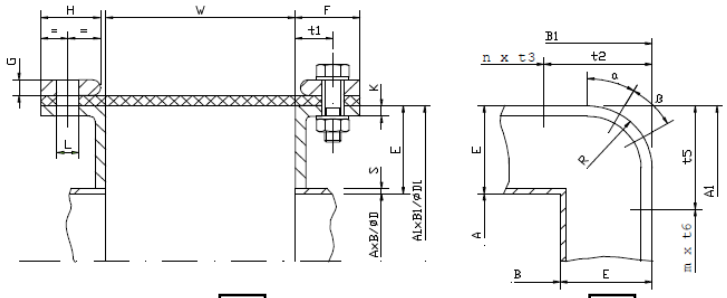
Frequency: _____ s-1

Amplitude: _____ in

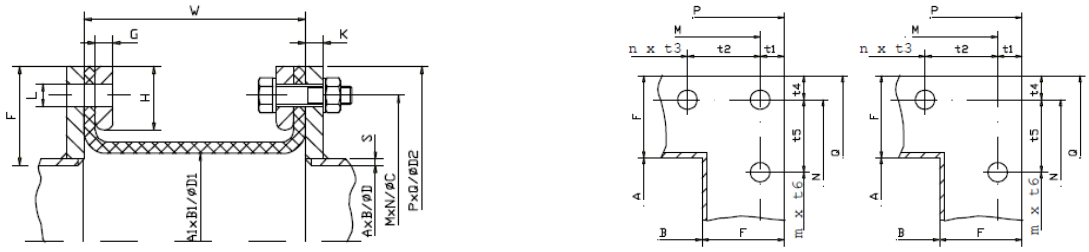
6. Design

Type on connection	☐ Tubular connection		☐ Flange connection	
Delivery	☐ open		☐ endless	
Baffle/Sleeve	☐ no	☐ yes	☐ welded	☐ bolted
Insulation between expansion joint and baffle/sleeve			☐ yes	☐ no

Tubular connection



Flange connection ☐ with hole in the edge ☐ without hole in the edge



Rectangular				Round			
AxB	inner duct dimension	**A** _____ in		D	inner duct diameter	**D** _____ in	
A1XB1	inner dimension of	**A1** _____ in		D1	inner diameter of the	**D1** _____ in	
	the expansion joints	**B1** _____ in			expansion joint	_____ in	
E	set back	**E** _____ in		E	set back	**E** _____ in	
F	flange height/width	**F** _____ in		F	flange height/width	**F** _____ in	
G	counter flange thickness	**G** _____ in		G	counter flange thickness	**G** _____ in	
H	counter flange width	**H** _____ in		H	counter flange width	**H** _____ in	
K	flange thickness	**K** _____ in		K	flange thickness	**K** _____ in	
L	bolt hole diameter	**L** _____ in		L	bolt hole diameter	**L** _____ in	
MxN	hole line distance	**M** _____ in		C	bolt pitch	**C** _____ in	
		N _____ in		N	number of holes	**N** _____ in	
PxQ	outer dimension	**P** _____ in		D2	outer diameter	**D2** _____ in	
		Q _____ in				_____ in	

R	radius	**R** _____ in			_____ in
S	duct wall thickness	**S** _____ in	S	duct wall thickness	**S** _____ in
W	flange distance	**W** _____ in	W	flange distance	**W** _____ in
T1	distance (round/rect.)	**T1** _____ in	T4	distance (only rect.)	**T4** _____ in
T2	distance (only rect.)	**T2** _____ in	T5	distance (only rect.)	**T5** _____ in
T3	distance (only rect.)	**T3** _____ in	T6	distance (only rect.)	**T6** _____ in
m	number of holes	**m** _____ in	n	number of holes	**n** _____ in
α	angle	**α** _____ in	β	angle	**β** _____ in

7. Scope of supply

☐ Expansion Joint
☐ Internal insulation
☐ Counter flanges/tension strips
☐ Duct flanges
☐ Bolting
☐ Baffle/Sleeve
☐ Baffles/Sleeve gasket

☐ supplied in parts
☐ supplied pre-assembled

☐ On site measurement
☐ Mounting
☐ Supervision

8. Other details

_____

_____

_____

_____

_____

9. Sketch/Drawing

Sketch/Drawing enclosed ☐ yes ☐ no

Drawing no.: _____

_____	_____	_____
Name	Date	Signature