BundleTec

BT-RFQ-EN-2026

Fabric Expansion Joint Technical Sizing Questionnaire (RFQ)

Submit completed sheet to info@bundletec.com or WhatsApp +90 530 675 18 99 for Same-Day Engineering Proposal & Sizing

1. Project & Contact Information

SECTION 1/6

Company / Plant / EPC Name:

Contact Engineer, Email & Phone:

Project Reference / Equipment Tag No.:

Delivery Urgency & Quantity:

☐ Standard ☐ 48h Emergency Belt Qty: _____

2. Duct Geometry, Frame Metallurgy & Flange Drilling

SECTION 2/6

Cross-Section & Inside Dimensions (mm):

☐ Circular Ø _____ mm ☐ Rectangular W _____ × H _____ mm

Breech Gap (L_inst) & Duct Wall Thickness:

L_inst = _____ mm t_duct = _____ mm Corner R = _____ mm

Duct / Frame Metallurgy:

☐ S235JR/S355 ☐ Corten ☐ 304/316L ☐ 310S (1.4845) ☐ C-276 / Other: _____

Supply Configuration:

☐ Belt Only ☐ U-Type Belt ☐ Flat Belt + Standoff Steel Frame

Flange Drilling Standard, Flange Width & Bolting:

☐ EN 1092-1 PN _____ ☐ ASME B16.47 ☐ Custom Flat Bar | W_flange: _____ mm · Bolt: M _____ · Pitch: _____ mm

3. Operating Process Conditions

SECTION 3/6

Temperature Profile (°C):

Operating (T_op): _____ Design: _____ Peak (≤15–30 min): _____

Pressure / Vacuum (Pa / mbar / mmWC):

Operating: ±_____ Design: ±_____ (☐ Pa ☐ mbar ☐ mmWC)

Gas Velocity & Flow Orientation:

Velocity: _____ m/s | ☐ Horizontal ☐ Vertical Up ☐ Vertical Down

Installation Environment & Ambient:

☐ Indoor ☐ Outdoor (UV/Rain/Coastal) Ambient: _____ / _____ °C

Gas Chemistry, Moisture (%), SO_3 / HCl (ppm), Acid Dew Point & Dust Load (g/Nm³):

Medium / Process: _____ H_2O: _____ % SO_3: _____ ppm HCl: _____ ppm Dust: _____ g/Nm³ (Abrasive: ☐ Yes ☐ No)

4. Concurrent Multi-Axial Thermal Displacements

SECTION 4/6

Axial Comp. (−ΔX) / Ext. (+ΔX):
−ΔX: _____ mm +ΔX: _____ mm

Lateral Shear (±ΔY_1 / ±ΔY_2):
ΔY_1: ±_____ mm ΔY_2: ±_____ mm

Angular Tilt (θ°) & Cycles:
θ: ±_____ ° Cycles/yr: _____

5. Splice Preference, ATEX Zone, Internal Hardware & QA / ITP Scope

SECTION 5/6

Belt Delivery & Splice Preference:
☐ Endless Factory-Spliced ☐ Open-Ended for Field Splicing (370°C PTFE / Hot-Vulcanized)

ATEX 2014/34/EU Explosive Atmosphere Requirement:
☐ Not Required ☐ Zone 1 / 2 (Gas) ☐ Zone 21 / 22 (Dust — Conductive PTFE Rs<10^6 Ω)

Integrated Internal Protection Hardware Checkboxes:
☐ Particle Deflector (PD) ☐ Condensate Drain (DP/DB) ☐ Ash Barrier (SAPB/DAPB) ☐ Purge Chute (PEB) ☐ Cooling Fins (FK) ☐ Tadpole Gasket (TG) ☐ 1200°C CMS-Bio Bolster

Quality Assurance, Certification & ITP / FAT Checkboxes:
☐ EN 10204 2.2 (Textiles/Elastomers — RAL-GZ 719) ☐ EN 10204 3.1 (Metallic Frames/Liners/Bolts) ☐ PMI Spectrometer ☐ EN 1593 Nekal® (≥50 hPa) ☐ Opt. Helium QA (Q≤10^{-3}) ☐ WPS/WPQR & VT/PT

6. Engineering Dimensioning Sketch Box

SECTION 6/6

RECTANGULAR DUCT DIMENSIONING



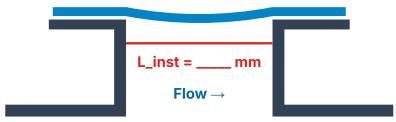
W (Inside Width) = _____ mm
H (Inside Height) = _____ mm

CIRCULAR DUCT DIMENSIONING



Ø Inside Dia. = _____ mm
Ø Bolt Circle = _____ mm

SIDE SECTION (L_inst & FLANGE)



W_flange = _____ mm
t_duct = ___ mm · Pitch = ___ mm

Attach existing GA drawings, flange drilling templates, or site photos via email / WhatsApp for rapid reverse-engineering.

Additional Technical Notes / Prior Failure Mode:

Prepared By (Name / Signature / Date):

48-Hour Emergency Turnaround & 24/7 Senior Engineer Hotline: +90 530 675 18 99 · Tel: +90 212 823 37 57 · info@bundletec.com · www.bundletec.com/en/

BundleTec Arnavutköy Fabric Expansion Joint Plant (HQ): Karlıbayır Mah. Bayrak Cd. No: 134D & 132C, 34275 Arnavutköy / İstanbul, Türkiye (Fabric expansion joint manufacturing ONLY)

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