

Technical Data Sheet



tek intonat[®]-active stacks

tek intonat[®]

www.tekintonat.co.uk ■ 0121 766 5005



tek intonat-® stacks



tek intonat-®-stacks comprising:

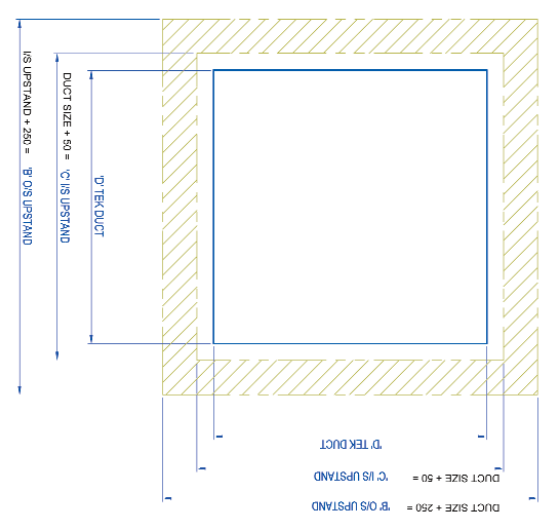
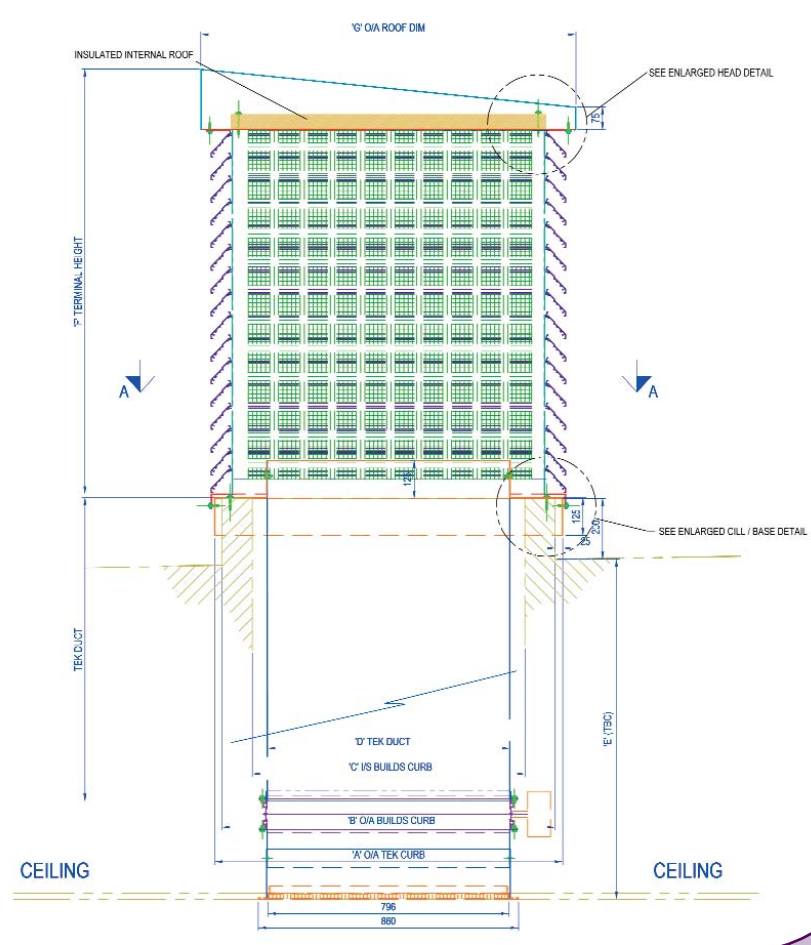
- ◆ Monopitch roof design
- ◆ Insulated roof
- ◆ Mitred HE9TF aluminium 50mm triple turnback louvres
- ◆ Galvanised steel ductwork lined with 6mm Class O foam (max length 1500mm)
- ◆ Aluminium fully insulated and thermally broken damper
- ◆ 'U' value 0.581W/m²K
- ◆ 24v Belimo LM241-SR modulating actuator (fully compatible with Windowmaster control system)
- ◆ One piece mounting skirt
- ◆ Water catchment tray
- ◆ Internal eggcrate grille

tek intonat-®-active stacks

Air Volumes

Size (mm)			Wind Speed (m/s)	Air Volume (l/s)
Width	Height	Length		
600	600	600	1	150
600	600	600	3	350
600	600	600	5	560
700	700	700	1	200
700	700	700	3	480
700	700	700	5	760
800	800	800	1	270
800	800	800	3	650
800	800	800	5	1050
1000	1000	1000	1	420
1000	1000	1000	3	1000
1000	1000	1000	5	1650
1200	1200	1200	1	600
1200	1200	1200	3	1400
1200	1200	1200	5	2300





UNIT REF.	TYPE REF.	DIM 'A' - TEK CURB	DIM 'B' - O/A BUILDERS CURB	DIM 'C' - I/S BUILDERS CURB	DIM 'D' - TEK DUCT	DIM 'E' - ROOF LINE TO CEILING LINE	DIM 'F' - O/A TERMINAL HEIGHT	DIM 'G' - O/A ROOF DIM
DIMS FROM		DUCT SIZE + 300	DUCT SIZE + 250	DUCT SIZE + 50		TBC		

tek now offer aluminium insulated and thermally broken damper able to provide a class-leading minimum leakage rate combined with a 'U' value of 0.581W/m²K.

This provides the highest rate of insulation and shut off and conforms to all new regulations from November 2010.

How this is possible is by attention to detail and careful assembly allowing class-leading results to be achieved:

- ◆ The case has double thermal breaks and highly insulated and thermally broken blades with a 'U' value of 0.581W/m²K,
- ◆ A 50mm flange on roomside to seal against,

- ◆ Square to round drive shafts and air tight bearings,
- ◆ An accurate length of blade to ensure perfect seal deformation,
- ◆ An internal centre brace to prevent bowing of the case,
- ◆ Motor mounting bracket, factory fitted and adjusted to provide tight shut-off,
- ◆ Opposed or parallel blade configuration.

Damper Test Results

Maximum leakage at 50Pa per m² over a 10 minute period.
Both tests are less than the current regulation of 5m³/hour per m².

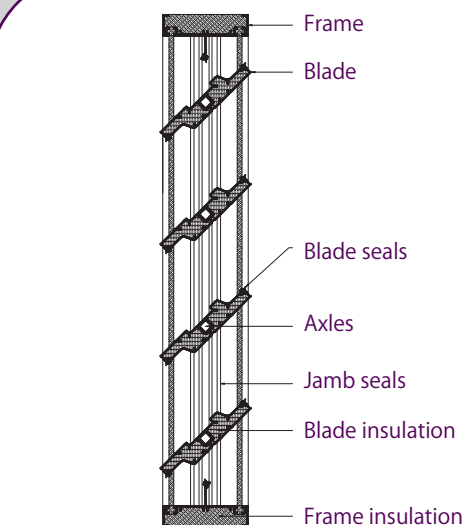
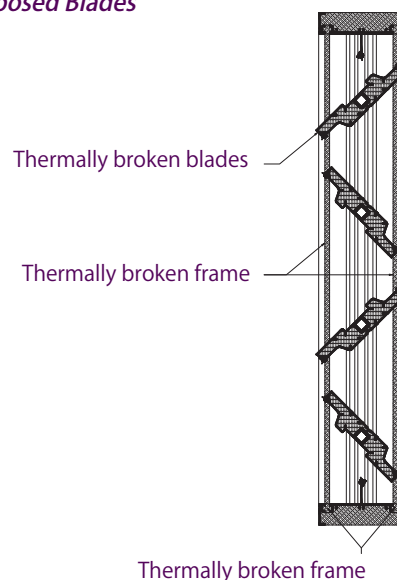
Atmosphere Side

Width (mm)	Height (mm)	Pressure (Pa)	Leakage (l/s/m ²)
1400	450	0.2	0.679
1400	450	0.2	0.679
1400	450	0.2	0.459
1400	450	0.2	0.495
1400	450	0.2	0.789

Room Side

Width	Height	Pressure (Pa)	Leakage (l/s/m ²)
1400	450	0.2	1.046
1400	450	0.2	1.229
1400	450	0.2	1.119
1400	450	0.2	1.009
1400	450	0.2	0.789

Opposed Blades



Parallel Blades

Operating & maintenance



External louvres systems, Penthouse louvres, Louvred Screens and Roof Turrets

Operation:

- ◆ Louvres have no moving parts and require no interaction other than fitting or maintenance.
- ◆ Louvres can be used for supply, extract or screening applications.

Maintenance:

We would recommend a minimum six monthly check; however local conditions will determine the frequency of maintenance checks required.

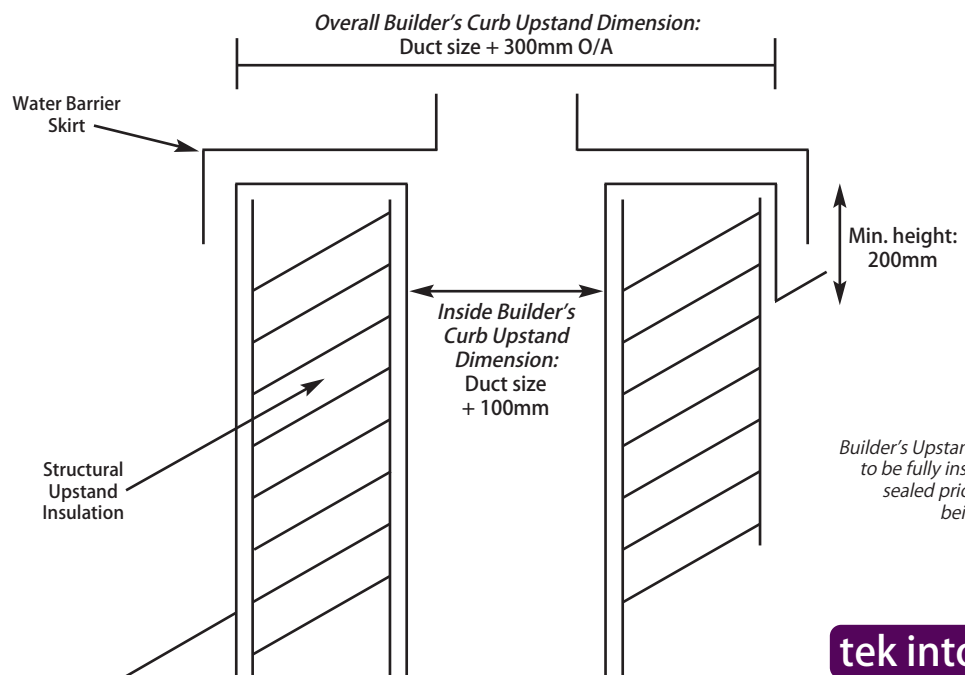
Ensure that all safety equipment specified for the environment is used.

- ◆ Check all blades are secure.
- ◆ Check all fixings and the unit is secure.
- ◆ Remove any debris that may be trapped between blades to maintain performance.
- ◆ If insect mesh is fitted carefully remove any debris and vacuum to unclog.
- ◆ We would recommend that the louvre is cleaned using mild wash-up detergent and water applied with a non-abrasive cloth or sponge.

Care should be taken whilst performing maintenance not to damage the unit.



Curb Details for Pitched Roof



Curb Roof Details for Flat Roof

