INSTALLATION CHECKLIST

High Rise Apartments, Student Accommodation, Hotels and Commercial: Corridor, Intertenancy, Shaft & Services walls up to FRL -/90/90

This checklist should be read in conjunction with Hebel Design and Installation Guide for High Rise Apartments, Student Accommodation, Hotels and Commercial: Corridor, Intertenancy, Shaft & Services walls (HELIT117), its related documentation and any project specific technical advice provided by CSR Hebel.

It is the responsibility of the architectural designer and engineering parties to ensure that the details used in the above Design and Installation Guide are appropriate for the intended application.

Builder:	
Hebel Installer:	
Building:	
Floor level:	
Grids or area:	

CONSTRUCTION STEP		Satisfactory	Action required
Before commencing Hebel wall systems installation			
1.1	Have all the documentation and specification sheets been supplied for the construction of the project?		
1.2	Have all the specified wall panels been supplied (length, width and thickness)?		
1.3	Have all the required fixing components been supplied (head and base angles, fixings etc.)?		
1.4	Is all Hebel panel handling equipment on site?		
1.5	Have all panels been supplied in good condition without major panel damage?		
1.6	Has all support structure been completed?		
1.7	Is all support structure position within tolerances?		
Hebel wall systems installation			
2.0	**Head and base Details**		
2.1	Has the slotted head angle 75mm x 50mm x 1.2mm been installed in accordance with project specifications?		
2.2	For wall heights greater than 3.3m has a second slotted head angle 75mm x 50mm x 1.2mm been installed?		
2.3	Has the slotted base angle 50mm x 50mm x 0.8mm (for wall height up to 3.3m) OR 75mm x 50mm x 1.2mm (for wall heights greater than 3.3m) been installed in accordance with project specifications?		
2.4	Has Hebel Adhesive (for gaps up to 3mm) or Hebel Mortar (for gaps 3mm to 10mm) been installed at the base of the panel?		
2.5	Have the panels been secured to the slotted head angle with a minimum of two (2) 14-10 x 65mm hex head type 17 screws, positioned in the bottom of slots and a minimum 50mm from the panel edges?		
2.6	Are the head joints gaps between 10mm and 20mm wide?		
2.7	Has backing rod been installed in all joints and to a sufficient uniform depth to allow for correct sealant installation?		
2.8	Has CSR FireSeal been installed to the required depth: minimum 10mm deep for 10mm wide joints; up to 16mm deep for 20mm wide joints?		

3.0	**Vertical junction details - internal**		
3.1	Are all vertical panel joints continuously glued with Hebel Adhesive? Is the glue joint width no more than 3mm (maximum)?		
3.2	**Panel to column junction details:**		
3.2.1	Are vertical joint gaps between 10mm and 20mm wide?		
3.2.2	FRL -/90/90 walls: has a vertical slotted angle 75mm x 50mm x 1.2mm been installed with a minimum of three (3) 14-10 x 150mm hex head type 17 screws at maximum 900mm centres and positioned centrally in slots?		
3.2.3	Has backing rod been installed in all vertical joints and to a sufficient uniform depth to allow for correct sealant installation?		
3.2.4	Has CSR FireSeal been installed to the required depth: minimum 10mm deep for 10mm wide joint; up to 16mm deep for 20mm wide joint?		
3.2.5	FRL -/60/60 walls: has a second sealant and backing rod joint been installed in lieu of the slotted vertical angle?		
3.2.6	FRL -/60/60 walls: do all offset panels up to 25mm from the face of a column have a sealant joint and slotted vertical angle 75mm x 50mm x 1.2mm installed?		
3.3	Do rigid corner and T-junctions have a minimum three (3) x 14-10 x 150mm hex head type 17 screws installed at maximum 900mm centres?		
3.4	Do splay corner junctions have a minimum of three (3) 14-10 x 150mm hex head type 17 screws installed from each direction at maximum 900mm centres?		
4.0	**Vertical junction details - external**		
4.1	Have all internal to external wall junctions been assessed by the relevant consultants and been adequately sealed, either as per the Hebel junction details or to details provided by others for fire, acoustic and weathertightness criteria?		
5.0	**Door details**		
5.1	Are door lintel panels installed horizontally and do they have minimum 100mm seating at each end?		
5.2	FRL -/90/90 walls: are sets of 'skewed' 14-10 x 150mm hex head type 17 screws installed through vertical lintel joints at each end of lintel panels? Note: screws can be omitted for FRL -/60/60 walls.		
5.3	**Door nibs:**		
5.3.1	Do all door nibs 150mm (min) to 300mm (max) width have a -/90/90 FRL vertical junction detail installed (details 3.2.1 to 3.2.4 above)		
5.4	FRL -/90/90 walls: are sets of 'skewed' 14-10 x 150mm hex head type 17 screws installed through vertical lintel joints at each end of lintel panels? Note: screws can be omitted for FRL -/60/60 walls.		
5.5	Have door frames been installed (supplied by others) in accordance with the door manufacturer's recommendations and Hebel Design and Installation Guide HELIT117?		
6.0	**Control Joints**		
6.1	Are control joints located at maximum 6 metre spacing and are gaps between 10mm and 20mm wide?		
6.2	Has backing rod been installed to both sides of control joints and to sufficient uniform depth to allow for correct sealant installation?		
6.3	Has CSR FireSeal been installed to both sides of control joints at required depth: minimum 10mm deep for 10mm wide joint; up to 16mm deep for 20mm wide joint?		
7.0	**Penetration and services details**		
7.1	**Metal pipes:**		
7.1.1	Have metal pipe penetrations been installed with neat core hole and annular gap around the pipe of 10mm to 20mm?		
7.1.2	Has backing rod been installed to both sides of joints around the pipe and with sufficient uniform depth to allow for correct sealant installation?		
7.1.3	Has CSR FireSeal been installed to both sides of joints around pipe and to required depth: minimum 16mm deep for 10mm wide joint; up to 16mm deep for 20mm wide joint?		
7.1.4	Has correct length of lagging insulation, rockwool or equivalent, been installed to both sides of pipe?		

7.2	**Plastic pipes:**		
7.2.1	Have plastic pipe penetrations been installed with a neat core hole, including allowance for an appropriate sealant joint gap around the pipe/in-wall fire collar? Refer collar manufacturer recommendations for allowable annular gap dimensions.		
7.2.2	Have correct fire collars been installed to manufacturer's recommendations including backing rod and recommended fire and acoustic rated sealant?		
7.3	**Fire dampers:**		
7.3.1	Have neat rectangular penetrations for fire dampers been cut to allow for 10mm to 20mm gap around penetration?		
7.3.2	Has backing rod been installed to both sides of joints around damper and sufficient uniform depth to allow for correct sealant installation?		
7.3.3	Has CSR FireSeal been installed to both sides of joints around damper and to a minimum depth of 20mm?		
7.3.4	Have the damper and face angles been installed to manufacturer's recommendations?		
7.4	**Electrical and communication services:**		
7.4.1	Have cables been installed in neat core holes with CSR FireSeal installed around the cables to full depth of the panel?		
7.4.2	Are all GPO's installed in Hebel panels recessed locally to a depth no greater than 15mm?		
8.0	**Other Items**		
8.1	Damaged panels: were damaged panels checked for suitability and repaired where required?		
8.2	Cut reinforcement: has cut reinforcement been coated with Hebel Anti-Corrosion Protection Paint as specified?		
8.3	Are all visible gaps at head of wall sealed with CSR FireSeal?		
8.4	Are all visible gaps at the base of wall sealed with Hebel Adhesive or Hebel Mortar?		
9.0	**Finishing Hebel wall systems**		
9.1	Has specified plasterboard been fixed to Hebel panel with screws as specified?		
9.2	Has specified steel stud frame been erected at the nominated offset from Hebel wall leaf?		
9.3	Has frame been secured to concrete in accordance with project specifications?		
9.4	Has correct insulation been installed in accordance with manufacturer's recommendations and does it extend to underside of the concrete soffit?		
9.5	Has specified plasterboard lining been installed and finished in accordance with manufacturer's recommendations?		
9.6	Have specified sealants been installed at gaps between plasterboard and concrete surfaces in accordance with manufacturer's recommendations?		
9.7	Are all GPO's offset by 300mm minimum for all services placed within depth of furring channel or stud frame?		

All items listed above have been completed satisfactorily and to an acceptable level for the following contractor:

Hebel Installer (Company Name): _____

Name: _____

Signature: _____ Date: _____