

IEA ECBCS Annex 50
Prefab Retrofit of Buildings



Model format for renovation module





Project:



Austria

P

PLANNING PROCESS

Type of facade <module>	Compact façade insulation		
	Ventilated façade insulation		
	Fibre insulated façade cladding		
	Prefabricated façade module		
Survey of building stock	On-site measurement		
	Schemes		
Architectural aspects	Surface design		
	Colour		
	Format & dimensions		
	Joint formation		
Building physics	Energetical	Heating demand before	kWh/m²a
		Heating demand after	kWh/m²a
		U-value before	W/m²K
		U-value afterwards	W/m²K
	Moisture protection	Acc.to ÖNorm B8110-2	
		Assigned	
	Airtightness	Acc. to ÖNorm B2340	
		Assigned	
	Noise abatement	Acc.to ÖNorm B8115-2	dB
		Assigned	
Fire prevention	Acc.to Önorm B3800		
	Assigned		
Mounting and joining technology	Joint formation	Open	
		Enclosed	
	Fixing	T-square/lug	
		Dowel	
	Single module removable		
Rear ventilation			
Ecological aspects	Ecological assessment		

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PLANNING PROCESS

Running of cables	Heating pipes & heat emission		
	Ventilation pipe		
	Electricity cables		
	Rainwater-/sewage-/water - pipe		
	Sketch		
	Window and window-connection		
	Material	Wood, wood-/alu	
		PVC	
		Alu	
	Specific values	U-value window	W/m ² K
	Mounting position	at the outside	
		central	
		inside	
	Lateral junction <horizontal section>		
	Window lintel <cross-section>		
Window sill <cross-section>			

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PLANNING PROCESS

Layer formation

from inside to outside:

Junction

Technicality

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CONSTRUCTION WORK	Preparation of subsurface	Compensating battens	
		Surfacer, filling	
	Transport		
	Mounting	Mobile crane, truck-mounted crane	
		Scaffold	

Description & Photo

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Project:



Graz, Dieselweg
 Austria

Q					
Q QUALITY ASSURANCE	Thermographic analysis	Before Date: XX.XX.2007			
		Afterwards Date: XX.XX.2009			
	Blower-Door-Test	Airtightness	Air exchange rate n_{50}		1/h
		Photo Date: XX.XX:2009			
	Measurements	Temperature			
		Humidity			
	Analysis of consumption data	Energy demand			
	Maintenance				