

**NEOBLOCK™**

Effective heat  
prevention

**15-30%** more energy saving  
with **Energy Wall** System  
(Passive cooling technology)

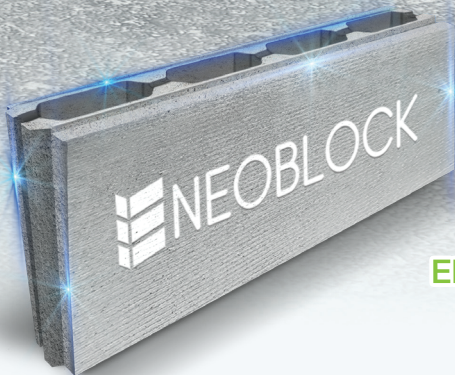
Less  
Moisture

**10** times less water absorption  
than AAC/CLC brick resulting in  
**no fungi** growth

Insulated concrete block  
**SMART HYBRID**



**LINK N LOCK®** Technology  
Save the cement and easy to set



**LINK N LOCK®**

**EFFICIENT AND MOST RELIABLE  
ENERGY-SAVING CONCRETE BLOCK**

Certification  
standards



สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง  
KMITL Institute of Technology



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## KEY SUCCESS OF NEOBLOCK™

- ▶ Superior Properties ▶ Higher Compressive Strength ▶ Superior Heat and Sound Insulation

## ECO-FRIENDLY PRODUCT

- ▶ Low energy consumption ▶ Less pollution during production

## ADVANTAGES OF NEOBLOCK™ OVER AAC/CLC AND CLAY BRICKS

- ▶ Energy Savings: **15-30% more than other bricks in terms of insulation**
- ▶ Compressive Strength: **10 times superior than AAC/CLC and clay bricks**
- ▶ Installation Speed: **80% quicker installation than AAC/CLC and 3 times faster than clay bricks**
- ▶ Fire Rating: **More than 4 Hours**
- ▶ Sound Insulation (STC Rate): **47% Superior sound insulation than AAC/CLC brick**
- ▶ Water Absorption: **10 times lower water absorption properties than AAC/CLC**
- ▶ Function and Use: **LINK N LOCK® Technology allows for easy, quick and uniformed installation (each piece fits like a jigsaw) without the need for skilled labour.**  
Superior strength and durability.

## PRICE COMPARISON AND INSTALLATION SPEED

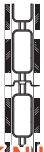
LIST	NEOBLOCK™		AAC/CLC		CLAY BRICKS	Advantages of NEOBLOCK™
Model Size	Premium 20X50X8	High Strength 20X50X8	G4 20X50X7.5	G8 20X50X15		Perfect sizing to reduce loss/debris
Pcs./Sqm	10	10	8.33	8.33	145	High density yet lightweight. Increased durability of building structures
Weight/Pc.	7.5 Kg	9.8 Kg	6.5 Kg	11.6 Kg		
Total Wt./Sqm	105Kg/Sqm	128Kg/Sqm	100Kg/Sqm	140Kg/Sqm	160 Kg/Sqm	
Price/Pc. (Baht)	24	26	15.85	37.24	1.5	15-35% savings on total cost/sqm over other blocks
Price/Sqm (Baht)	240	260	142	335	217.50	
Joint Mortar/ Sqm (Baht)	30 (General Adhesive)	30 (General Adhesive)	60 (Special Adhesive Mortar)	60 (Special Adhesive Mortar)	80 (Mortar)	Reduce the cost of joint mortar and structural weight
Rendering Plaster/ Sqm (Baht)	55 (General Plaster)	55 (General Plaster)	100 (Special Plaster)	100 (Special Plaster)	120 (General Plaster)	Reduce the cost of plastering and structural weight
Labour/Sqm (Baht)	240	240	270	270	240	No skilled labour required with LINK N LOCK® Technology
Installation Speed Sqm/day/team	40-45	40-45	25-30	25-30	10-15	1.5 to 2.5 times faster installation than AAC, CLC and Clay bricks
Total cost/Sqm (Baht)	565	585	572	765	657.50	Save 15-35% in all dimension with NEOBLOCK™





## QUICK & EASY INSTALLATION

- ▶ **LINK N LOCK® Technology** (interlocking) allows for 13-30% savings on cost of installation. Smooth and uniformed surface without need for skilled labor.

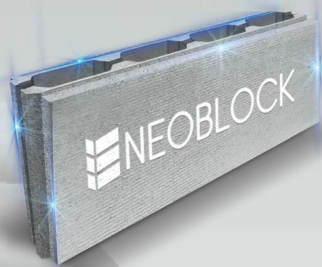


**LINK N LOCK® Technology**  
Save the cement and easy to set

## PROPERTIES COMPARISON TABLE

LIST	NEOBLOCK™		AAC/CLC		CLAY BRICKS	Advantages of NEOBLOCK™
Model Size	Premium 20X50X8	High Strength 20X50X8	G4 20X50X7.5	G8 20X50X15		
Compressive Strength (Kg/cm2)	105	360	25-35	35-70	20-35	Stronger and more durable building structure
Density (Kg/m3)	1600	2200	600	800	1200-1500	Tensile strength/hanging load of over 300 kg
Water Absorption (% by weight)	10.5	3.54	30-35	30-35	18-25	Mold and fungus resistant
STC Rate (dB)	58.4	61.8	42	45	38	47% superior sound insulation
Fire Resistant Rating (Hr)	>4	>4	4	4	2-3	Fire resistant for longer than 4 hours
Thermal Conductivity (W/m.K)	0.40	0.80	0.45	0.91	1-3	Save up to 30% with superior insulation using principles of passive cooling that supports energy- efficient home construction technology

## SPECIAL FEATURES



Fire resistance **Over 4** hours



**47%** Superior sound insulation than AAC/CLC brick



**80%** Faster installation **3** times quicker than AAC/CLC brick



**10** times Higher strength than AAC/CLC brick and clay brick



**10** times Lower water absorption than AAC/CLC brick



Requires no skilled labor thanks to **LINK N LOCK®** Technology with strength and durability



**15-30%** more energy saving with **Energy Wall** system (passive cooling technology)



**25 %** Lighter than clay brick



**Precision and accuracy** production standard based on Thai Industrial Standards Institute (TISI)



**Easy** installation, no special plaster required saving cost and time, reduced fracture/crack



Environmental regulation **compliant**

## **NEOBLOCK™**

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