CNZ INSULATION BOARD

TECHNICAL SPECIFICATIONS AND PROFILES





Ôb ZĀQ•『anaāj Ā@a=ĀnaĀ[]āZīĀ-Āā[]āJ`[*-Ā]:[à`&dā]]![ơ<(^)dá^A*•^\ơ^Ā@ Áā @akā_A@ay`^^āv+ā]Ā!Ă]^8āā8anaāj)+Á āQī ofjā;!Á }[azvēš</•aj}Ānb2 CNZ Insulation Ấẽ Á⊃^, ÁZ^æ|æ)åq•Á,}|^Á,æ)`~æ&c`¦^¦Á,~ÁÚOÜÁ[æ(Á&[¦^Á]æ)^|Á]¦[å`&o•Á,}ÁæÁ&[}cā)`[`•Áā]^È

2/١[{ Á[` ¦ Á• cæe^ É[-Éc@ Áed cÁ{ æ}` -æ&c` ¦ā] * Á] |æ) cÁāj ÁÔ@ā• c&@ ¦&@Á, ^Á&æ) Á{ æ}` -æ&c` ¦^ÁæÁ åãç^ ¦•^Á æ} * ^ Á[-Á] æ} ^ |Á] ¦[å` &o• Á+[{ Áæá• ā] * |^Á] ¦[å` &cā[} Á|ā] ^ ÉA{ æà ā] * ÁãoÁ[} ^ Á[-Ác@ Á { [• cÁæå æ] cæà |^Á] |æ} o• Á[-Áão• Ác`] ^ Áæ} ^ _ @ ¦^ Áāj Ác@ Á [¦|åĚÁV @ā• Á-æ&ā]ãc` Áæ]•[Á@æ• Ác@ Á { [• cÁæå æ] cæà |^Á] |æ} o• Á[-Áão• Ác`] ^ Áæ} ^ _ @ ¦^ Áāj Ác@ Á [¦|åÈÁV @ā• Á-æ&ā]ãc` Áæ]•[Á@æ• Ác@ Á { [• cÁæå æ] cæà |^Á] |æ} o• Á[-Áão• Ác`] ^ Áæ} ^ _ @ ¦^ Áāj Ác@ Á [¦|åÈÁV @ā• Á-æ&ā]ãc` Áæ]•[Á@æ• Ác@ Á { [• cÁæå æ] cæà |Â] * Áā æ} * æ&c` ¦^Á, æ} ^ |• Áāj Ár} * c@• Á[-Á] Á{[Â { ÉA}} æà |ā] * Á ã*} ãæ&æ] d^ Á[[¦^Á -|^ ¢ãa ā]ãc` Áāj Áà`ā] * Áå^• å*} È

Quality and Durability

ÔÞZÁQ,•č|ææa[}Ájæ}^|•Áæb^Á;æ)čæ&č¦^åÁæ)åÁ&v•c°åÁ&[ÁDÈ)FHÎÎÈEDDÈ)VTÁGIJÌÈEA(æa)åæbå•Á4[{Áx@Á@8t@•oÁčæ#aĉÁ;æe^Ë ¦ãæ‡PÉX•ãj*ÁxæærÁ;Áx@ÁæboÁ;¦[åč&aā;}Á~ččāj{^}oA&[Á8][¦[č•Áčæ#aãcÁ&[}d[|Áræa)åæbå•ÉA>}•č¦ãj*Á{[}*Á∞¦{Á^|ãæba3aãóÁæ)åÁ •^¦çã&^Áã^È

Warranty

Q Áai • aj ^• • ÉA[` ! Á^] ` cæati } Áai Áç^!^ c@aj * Áaj å (Å aj át ã Ë āj * Á ã \ Á(æ) ^• Á*[` } å Áai • aj ^• • Á*^} • ^ ÉAÔÞZÁQ,• ` |æË aj } (ŋ Á!æ) * ^ Á[! Ác@ ! { æµÁ3j • ` |ææti } Á, aj Aí* ãç^ A^ [` Ác@ Á] ^æ&^ Át - Át [aj å A [` qp^ A&@ • ^} Áæati ` ætaĉ Á(æz^! ãæthác@æati &[} t { • Ádt Á!^ |^çæ) cÁCE • dætaæ) Áæi å ÅÞ^ , ÁZ^ætæ) å Á • cæ) å ætaå • Áæi å Áaiæ&\ ^ å Áai Áæati æta) c´A [` Á&æi Á&] * ata [} È

Packaging and Delivery

ÔÞZÁQ•*|æaa‡}ÁÚÜÜÁ;æ}^|•Áæb^Á;œæ&\^åÁ{ææbĂ/@A;*{ à^¦Á;-Á]æ}^|•ÁşiÁ*æ&@\$jæ&\Ás^]^}å•Á;}Á;æ}^|Á;@&&\}^••È

Pæ)ålậľ*Á*˘ãã^lậĵ^•Áæ¦^Áæçæäpæàl^Á⊹[{ ÁÔÞZÁQ,•č|æaáj}}Á V^&@; 38æn¢Á)/^¦ç38/∿ĚÁ







PANEL OVERVIEW

WHY PIR CORE?

ECONOMIC ADVANTAGES

OB&&^|^¦æe&àÁ&[}●d`&qāj}Á^å`&^•Á*ãe^Áaã;^Áæ);åÁ*}^!*^Á ^~a3&ā*}&`Á¦~ÁÚŪÜÁ&[!^Éà;@3&@4&æ);Á^å`&^Á;]^¦æeã);*Á&[•o•Á à^Á]Á§[Á€ÃÈ

INSULATION PROPERTIES

Ö`^Áq[Ác@:Á|[, Á@:æeÁ&[}å`&cāāa‡āĉ Á[Áāe-Á~ ||^Á;[¦{ ^åÁ &|[•^åÁ&^||Á•d`&c`¦^ÊÁÚŪÜÁã:Ác@:{ ﷺ Á^~a&∂a}dĚAV@e:Á •`]^¦àÁ@:{ ﷺ ﷺ كَتْخَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَاصَ الْحَ]'{ ã { لْإِنْحَاصَ الْحَاصَ ا c@j}^ocka@e:a#a@a)^Á[]`c@j}eÈ

DURABILITY

OEÁÚÖÜÁå[^•Á}[óó∔ætÁ[¦Áæà•[¦àÁ{[ãč¦^Áî[`Á&æ)Aà^Á &[}-ãâ^}ó4[,Á&[}•ãc*}ó4]^¦-{¦{ æ}&^Á, @a&@Á, ä|Áæró4c@A ~||Áã^cã; ^Á;Á&@Ás`ăåâj*È

MOISTURE RESISTANCE

FIRE RESISTANCE

$$\begin{split} & UUUÅ_{A} \ alf A\bullet^{-} + E \ cal * \ a \ af A \ ad A \ af A \ ad A$$

OCCUPANT ADVANTAGES

- ÁÁ∭,]^\łąį¦Á, aaz^¦É&s[}å^}•aaaąį}Áaa)åÁ, [ãici\^Á,¦[[-āj*È
- Á∰š[, Áse|^¦*^} 3&Áĭ æjáiða•È
- Á ÁÚĽ]^¦áį lÁ^ã { & Á/^¦-{ |{ a) & E
- Á Á ÞP ði @Áða^ Ázæðji * Á [¦Á í zærði] ǐ { Áðji @æaiðaæ) o Á æ^ c`È
- A AKšā∧cāţ ∧Áj ∧¦-{¦{ aş & Ê, ãc@4⟩[Áå^c^¦āţ ¦æaāţ }Á[Áæáācāt @E }^••Á; lÁş •č |æaāţ }Áçaĕţ ^•È

Yær\'Áseå•[¦]qā,}Ás@[`*@Á¢][•`¦^ÁţÁ[ãc`¦^Á¦ÁğÁ¢&^]qā,}æ¢&ã&`{•cæ)&^•Á@[`*@Á{[[å•Éðá ÁscÁ∄}ã&æ)o^Aæ&q[¦Áã@Á æ}^Á{[å^¦}Áğ•`|æaā]}Á,¦[å`&dĚÖ`^ÁţÁ@æçã;*ÁszÁ&[[•^åÁ&\||Ád`&c`¦^ÊÚÜÜ/áa ÁszÁ@å¦[]@[à&AźA,i[å`&dĚ{(^æ)}ã;*ÁszÁa[^•Á[[^ æà•[¦àÁ]æe^¦ÈÁ/@áÁse4[],•Ás@Ás@;{æ4A,^¦-{¦{æ}&^áæ}åÁgic^*¦ãc´A,Ás@A,i[[å`&oAţKa>A,^æaã,^åÁ^*æå|^••A,A,æe^¦Á¢][Ë •č¦^È



PRODUCT INFORMATION

 $\begin{array}{l} U\left[\left[\tilde{a}\left[\mathcal{K}\right]^{2}\right] + 2\mathbb{E}\left[\mathcal{K}\right]^{2}\right] + 2\mathbb{E}\left[\mathcal{K}\right]^{2} + 2\mathbb{E}\left[\tilde{A}\right]^{2} + 2\mathbb{E}\left[\tilde{A}\right]^{2} + 2\mathbb{E}\left[\mathcal{K}\right]^{2} + 2\mathbb{E}\left[\mathcal{K$

ÜÁXæqĭ^Áæ&&{[¦åậ}*Áo	[ÁCEÙEÞZ	ZÙÁLÌÍJ	ÈFÁÚæld∕	ĠÁÙ^&cã	[} Ä È G								
Thickness (mm)	20	25	30	40	50	60	70	75	80	90	100	140	150
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Y^ã*@cÁÇ,*ÐĮ D	€ÈJÏ	FÈFJ	FÈF	FÈÍ	GÈGJ	GËIH	HÈFÏ	HÈHJ	HËF	IÈ€Í	ΙÈIJ	ÎÈGÍ	ÎĒJ

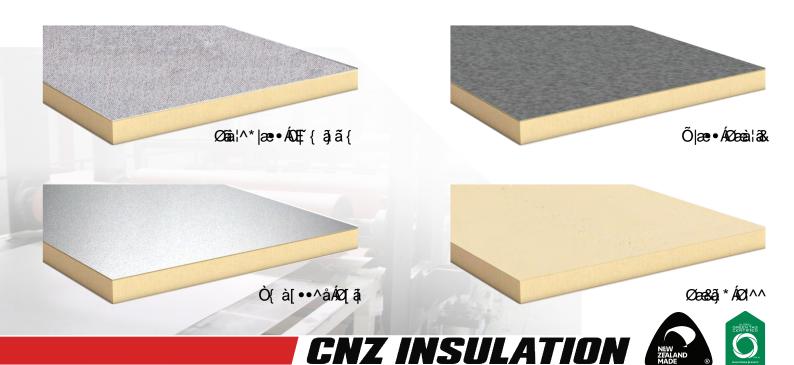
Y ^ ã* @cÁ[¦Á*|æ••Áæà¦ã&Đ'|æ••Áæà¦ã&Áæ&ã} *•

FIRE PERFORMANCE

Fibreglass Aluminium							
AS ISO 9705							
ÞÔÔÁX[`{ ^ÁU}^ÁÙ]^&ã-ã&æcā[} ÔFÈF€ÁÔ æ`•^ÁIÁå^ơ^¦{ ã}^å Áā}Á æ&&{ ¦åæ}&^Ájãc@ÁŒÙÁĨÎHÏÈF	Õ¦[`]ÁG						
ÞZÓÔÁX^¦ã-ã&æcã[}ÁT^c@[åÁÔÐXTG	Õ¦[č]ÁGËÙ						
Embossed Foil							
AS ISO 9705							
ÞÔÔÁX[`{ ^ÁU}^ÁÙ]^&&ā-ã&æcā[} ÔFÈT€ÁÔ æੱ•^Á!Áå^c^¦{ ā}^å Áā}Á æ&&{ ¦åæ}&^Á}ã©ÁŒÙÁÎÎHÏÈF	Õ¦[`] ÁH						
ÞZÓÔÁX^¦ã-ã&æcã[}ÁT^c@[å ÁÔÐXTG	Õ¦[č]ÁH						

PRODUCT PROPERTIES

Ö^}•ãc^	HÌ Ё G\ * Ð(
Ô[{] ¦^•• ãç^ Á d^} * c@	⁻ €ÈFÍ T Úæ
Ù@^ælÁrd^}*c@	⁻€ÈFT Úæ
Yæc^\¦Áçæaj[č¦Ác¦æa}∙{ã••ã[}Áiæc^Á	F€ËFÍÁ*Ð(GÈGI@
Ùcæ}åælåÅ,ãåc@Á	FG€€{ {
Ùcæ}åælåÅ,^}*c@Á	GI €€{ {
V@383∖}^••ÁÇ[{ D	ÁG€ÉÁGÍÉÁH€ÉÁI€ÉÁI€ÉÁI€ÉÁI€ÉÁI€É IÍÉÂI€ÉÁJ€ÉÁF€€ÉÁFI€Á⇔3àÁFÍ€



BUILDING CODE UPDATE 2021

PROPOSED SIX CLIMATE ZONES FOR NEW ZEALAND

Óæ•^åÁ[}Á%UJ`c&[{^Á[-Á&[}•`|cææ‡]}ÁÉÉÓ`ā¢åð]*ÁÔ[å^Á`]åæe^Á GECF+ÉÉÁ

TÓODÁātÁv¢]a)åāj*Ác@Áj*{ à^¦Á[Á&k]ā[æc^Á [} ^•Á* ^åÁj Ác@Á ĝ• "|æaāt] Á^``ã^{ ^} ºÁ'[{ Á+k/át Á Ě / @á Á ātká+t] , Á@Ásj• "|æaāt] Á ¦^``ã^{ ^} @ Át Ás^cc:\Ár-t^&cós@ Ásã-^!^} c/sr{] ^¦æč ¦^•Á ^¢] ^¦ār} & c^å/ásj Ár æs@á[} ^È

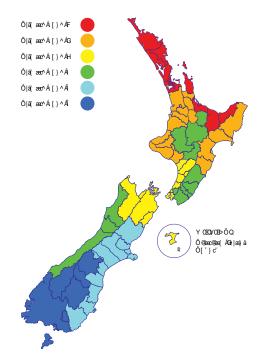


Figure 1. The climate zone map

Table 1.3. Increase in minimum R-values for residential and small buildings

Puilding clowent	Climate zone									
Building element	1	2	3	4	5	6				
Roof	R6.6↑									
Windows	RO.	0.37↑ R0.4		6个	R0.50个					
Wall	R2.0↑			R2.0						
Slab-on-ground floors	R1.5↑			R1.5个	R1.6个	R1.7个				
Other floors	R2.5↑			R2.8↑	R3.0↑					

Table 2.3. Increases in minimum R-values for commercial and large buildings

Ontions	Climate zone									
Options	1	2	3	4	5	6				
Roof	R3.5个	R4.0个	R5.0个	R5.4↑	R6.0个	R7.0↑				
Window	R0.33个	R0.331	R0.37个	R0.37个	R0.40个	R0.42个				
Wall	R2.2个	R2.4个	R2.7↑	R3.0个	R3.0个	R3.2个				
Underfloor	R2.2个	R2.2个	R2.2↑	R2.4个	R2.5↑	R2.6个				



1. DIRECT FIXING

1.1 DIRECT FIXING OF THE BOARDS TO CONCRETE SOFFIT

- Á ÁÁM / ^Áç [Á[, •Á, Á Áze c}\^¦•Ác] }* Á@ Ár}* c@ Bárç ^^} Á €Áţ Á FÍ€{ { Á{[{ Árắ* ^Á; -Ác@ Áa[ze ål Áa) å Á+ Áze c}^!•Ác]}* Ác@ Á { ãa å|^Ág Ác) - Á, -• ^cA; [•ãā] } Á[{ Ác@ Ár¢ c'}ā] ¦Á[, •Á; -Áze c'}Ë ^¦•Áze Á @, } Ág Á;*` ¦^ÁrÉEÈ
- À ÁÁ (المَّهُمُ (المَحْطَةُ المَّحْمَةُ مَعْمَهُ مَعْمَهُ مَعْمَهُ مَعْمَهُ مَعْمَ المَحْطَةُ عَلَيْهُ المُ 26 مُعْمَةُ المَحْطَةُ (المَصْحَطَةُ المَحْطَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ 26 مَعْمَةُ (المُحْطَةُ (المَحْطَةُ مُعْمَةُ المَحْطَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ م 26 مَعْمَةُ (المَحْطَةُ مُعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْمَةُ مَعْ

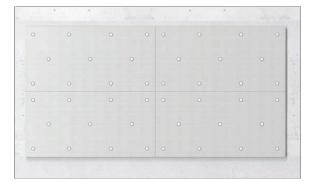


Figure 1.2. Board joints aligned. Fastener pattern (11 fixings per board)



Figure 1.0. Direct fix to concrete soffit

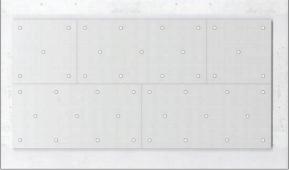


Figure 1.3. Board joints staggered

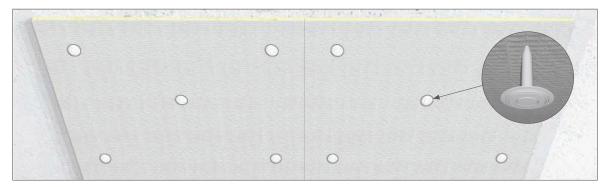


Figure 1.4. Insulation fastener

CNZ INSULATIO



1. DIRECT FIXING (continued)

1.2 DIRECT FIXING OF THE BOARDS TO MASONRY AND / CONCRETE WALL

1.2.1 WITH CONSTRUCTION ADHESIVE BONDING

- À Á W•ã, المَكْمُ المُحْمُطُ المَحْمَةُ (المَحْمَةُ عَلَيْهُ المَحْمَةُ المَحْمَةُ مَعْمَةُ مَعْمَاً لَمَحْمَةُ المُالِّحَمَّةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَ المَحْمَةُ المَحَمَّةُ المَحَمَّةُ المَحَمَّةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَة المَحْمَةُ المَحَمَّةُ المَحَمَّةُ المَحَمَّةُ المَحْمَةُ المُحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَح مَحْمَةُ مَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَحْمَةُ المَح
- À ẢÀ) * \^À ¢ã cã \ A k a đe Á cã cã * Á a đe Á da á da Á casă @ Á a Á & À & À & À A ([ç^À À a) ^ A] | [d` • ā] • Á c@ a da (` | å Á ! ^ • ` | Á á Á á à Á á i \^ ` | a Á • ` | a da ` , ` a da A , } ã @ E
- Á ÁÁOE;] | ʿÁæÁ&[} Œ] ʿā, ʿĂ ʿÁæʿAʾ æåÁ[Á&[}•d` & Œ] } Áœå@•ãç^Áœl[`} åÁ c@Á]^lā; ^c'¦Á[Ác@Á], æ‡Éæð; åÁ]^}^dæŒ]} •Á*`&@Éœe Áå[[¦•Á æ); åÁjāå[,]•È
- À ﷺ (المُحْظَمُ) المُعَامَةُ عَامَ المُعَامَةُ عَامَ المُعَامَةُ (المُحْطَةُ المُصَامُ القَبْطَةُ المُعَامُ ال عَبَّالَهُ مُحْلَمُهُ وَحَدَّمَةُ إِذَا مُعَامَةً إِذَا مُعَامَةً إِنَّهُ عَامَهُ مَعَامًا مُعَامًا مُعَامًا مُ

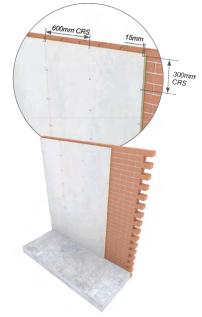


Figure 1.6. Masonry brick or block wall



Figure 1.5. Concrete wall

- À´ĂLâ {] دامُ ^ بِهَ فَصفُ هَمُ كَمَ { ^ } ^ [}] كَمُ يَامُ فَ مُدْمِكُ هَ عَمَ مُحْدَةَ فِي كَمْ حَكُمُ كَلَمُ À كَشَعْبُ • * فَتَى بَاضِعَتَةَ فِي كَمَ • كَمَ • كَمَ مَ مَعْفَ @ مُدْعَمُ هَ مَعْمُ هَكَمُ كَلَمُ كَلَمُ شَعْبُ • * فَتَى جَمعَةَ فَقَصَاً مَ اللَّهِ مَ كَلَمُ مَعْمَ اللَّهِ فَي مَعْمَ اللَّهِ مَعْمَ اللَّهُ عَلَيْكَ مَعْمُ يَامُعُمُ يَعْمُ فَقَ اللَّهِ مَعْمَ اللَّهُ فَقَ اللَّهُ فَقَعَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مُ مَعْمُ مَعْمَ اللَّهِ مَعْمَ اللَّهُ مَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مُعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّعَ مَعْمُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ اللَّعَ الْمُعْمَ مُعْمَ مَعْمَ مُعْمَعُ مَعْمَ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَ مُعْمَ مَعْمَ مَعْمَ مَعْمَ مُعْمَعُمُ مَعْمَ اللَّهُ مَعْمَ اللَّهُ مَعْمَ مُعْمَعُ مَعْمَ مُعْمَ مُعْمَ مُعْمَ مُعْلَمُ مَعْمَ مُعَامِ مُعْمَعُمُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ إِعْمُ مُعْمَعُ مُعْمَعُومُ مُعْمُ مُعْمَ مُعْمَعُ مُعْمَعُمُ مُعْمَعُ مُعْمَعُ مُعْمَ مُعْمَعُمُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَ مُعْمَ مُعْمَ مُعْمَ مُعْمَعُ مُعْمَعُ مُعْمَعُ مُعْمَعُمُ مُعْمَعُ مُعْمَعُ مُوْمَ مُعَامِ مُعْمَعُ مُعْمَ مُعَامُ مُعْمَ مُعْمَ مُعَامِ مُعْمَ مُعْمَعُ مُعْمَعُومُ مُعْمَعُ مُعْلَمُ مُعْمَعُ مُوْعَامُ مَعْمَ مُوْمَعُمُ مُوالَعُ مُعَامُ مُوالَعُ مُعْمَعُ مُعْمَ مُوالَعُ مُعْمَ مُوالَعُ مُوالًا مُعَامُ مُوالًا مُوامُ مُوامُ مُوالًا مُوامُ مُوامُ مُوامُ مُوامُ مُوامُ مُوامُ مُوامُ مُعْمَ مُوامُ مُوامُ مُعْمُ مُوامُ مُعْمَ مُوامُ مُوامُ مُوامُ مُوامُ مُعْمُ مُوامُ مُومُ مُومُ مُوامُ مُوامُ مُوامُ مُوامُ مُومُ مُوامُ مُومُ مُ
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1.2.2 WITH MECHANICAL FIXING

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2. FIXING TO METAL OR TIMBER BATTENS

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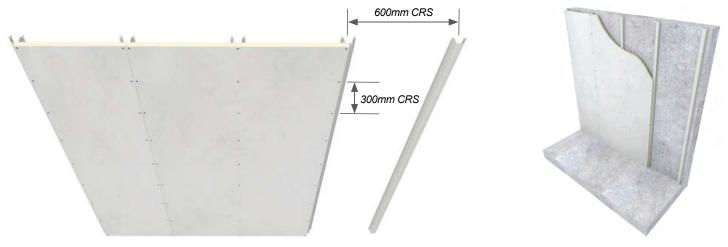


Figure 2.1. Masonry brick or block wall

Figure 2.2. Masonry brick or block wall

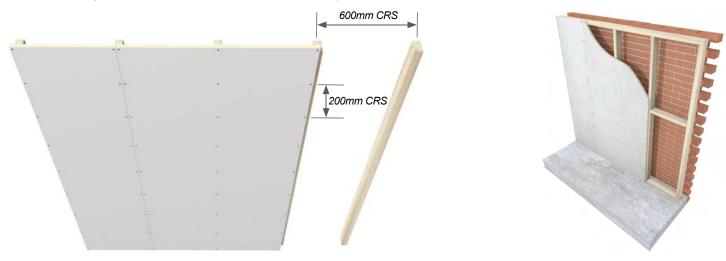


Figure 2.3. Masonry brick or block wall

Figure 2.4. Masonry brick or block wall



3. FIXING BETWEEN STUDS

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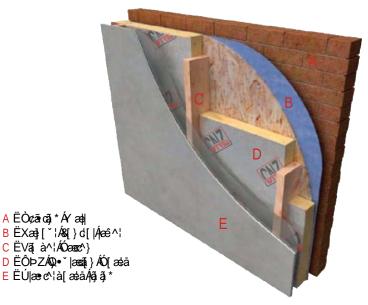
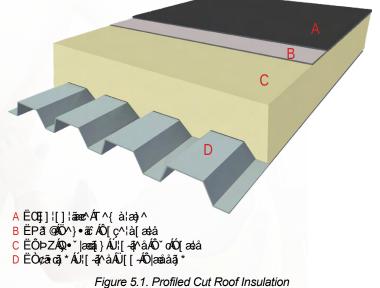


Figure 3.1. Fixing between studs

4. SERVICE PENETRATIONS

5. PROFILED CUT ROOF INSULATION

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CNZ INSULATION

6. INSULATED PRECAST SYSTEM

6.1 NON-COMPOSITE

PUY ÁQVÁY UÜSÙ



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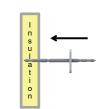


6.2 VERTICAL POUR

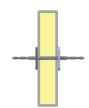
PUY ÁQVÁY UÜSÙ



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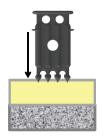
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6.3 COMPOSITE-ACTION

HOW IT WORKS



Place PIR insulation board on freshly poured concrete immediately after leveling (within 15-30 minutes).



Push the pointed end through the insulation into fresh concrete until the embedment stop is even with the top surface of the insulation.



Apply repetitive foot pressure on the insulation board near each tie, or otherwise vibrate the tie or the area around the tie.



Place specified reinforcement and cast second layer of concrete either immediately or after the bottom layer has cured.



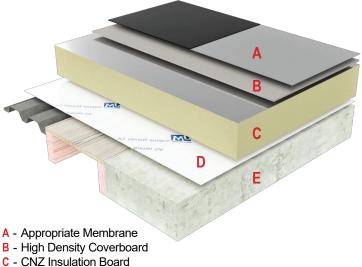


7. INSULATED ROOF SYSTEM

- Insulated roof systems or warm roofs as they are more commonly known, are a very good option for flat roof designs and are able to be utilised for new roof and re-roof construction.
- The inclusion of a dedicated vapour barrier in the overall design is essential for controlling moisture that can permeate from the substrate.
- Insulated roof systems are able to be fully adhered with approved adhesives or mechanically fixed with appropriate type tube washers and fixings.
- The CNZ insulated boards are produced in the standard size of 2400mm x 1200mm. The thickness of the CNZ insulation board will determine the correct R-Value that has been nominated for the project.
- The inclusion of a high density coverboard placed over the CNZ insulation board is essential and must be included in the overall design of the insulated roof system.
- The choice of an appropriate membrane type must be considered in the overall insulated roof system.

7.1 FULLY ADHERED METHOD

- Ensure the chosen substrate material has been installed to manufacture's specification.
- Install the vapour barrier directly to the chosen substrate to the manufacturer's requirements.
- Adhere the CNZ insulation boards to the fully adhered vapour barrier using a brick bond pattern.
- Adhere the approved HD cover board at right angles to the adhered CNZ insulation board using a brick bond pattern.
- Install the chosen membrane type to the manufacturer's requirements to the fully adhered insulated roof system components.



- D Vapour Barrier
- E Existing Roof Construction

Figure 7.1. Insulated Roof System

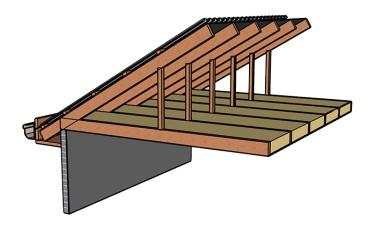
7.2 MECHANICALLY FIXED METHOD

- Ensure the chosen substrate material has been installed to manufacture's specification.
- Install the vapour barrier directly to the chosen substrate to the manufacturer's requirements.
- Place the CNZ insulation board to the fully adhered vapour barrier using a brick bond pattern.
- Place the approved cover board at right angles to the CNZ insulation board using a brick bond pattern.
- Mechanically fix the cover board and CNZ insulation board through to the substrate using an approved tube washer and appropriately sized fixing.
- The amount of required fixings will be determined by the specified wind zone requirement for the project.
- Consult the manufacturer of the supplied fixings for the correct required amount of fixings and position in relation to the insulated roof system components.
- Install the chosen membrane type to the manufacturer's requirements to the fully adhered insulated roof system components.





8. SKILLION ROOF SYSTEM

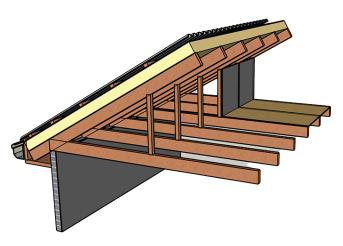


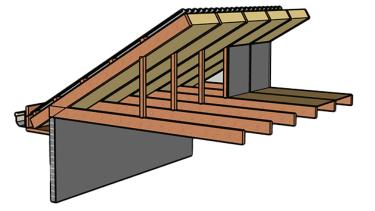
Ceiling Insulation

This detail depicts PIR insulation installed between the joists at ceiling level. This can be explained as a typical 'cold roof' application.

New Roof

This detail depicts PIR Insulation board above the rafters as a continuous insulation layer forming a 'warm roof' construction that does not require ventilation, and maintains the roof structure at (or close to) the internal temperature. A non-permeable vapour barrier is places ontop of the PIR. In this application the dew point is to the outside.





Retrofit

This detail depicts PIR insulation between the rafters at the roof level. This is considered a 'warm roof' application, maintaining the roof space at a similar temperature to the room below. However, in this application the rafters act as thermal bridge. Therefore, this is less efficient compared to 'new roof' where PIR insulation is installed above the rafters.





9. GALLERY



Figure 9.1. Fibreglass Aluminium

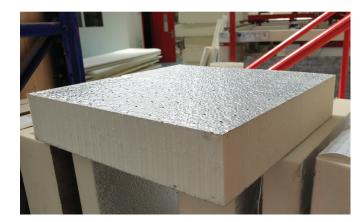




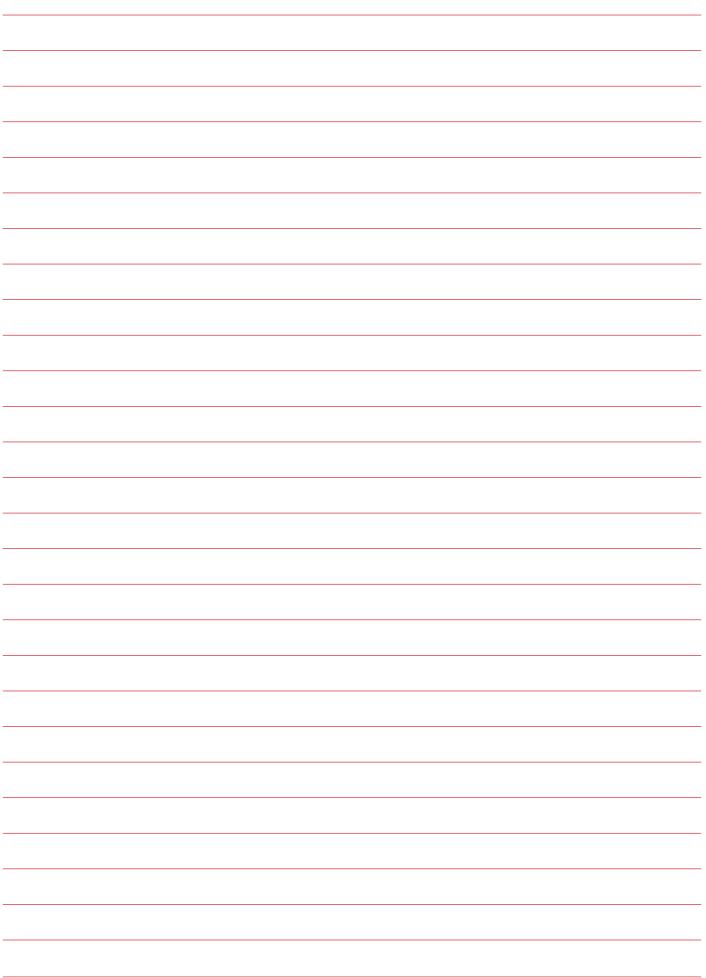
Figure 9.2. Embossed Foil



Figure 9.3. Glass Fabric

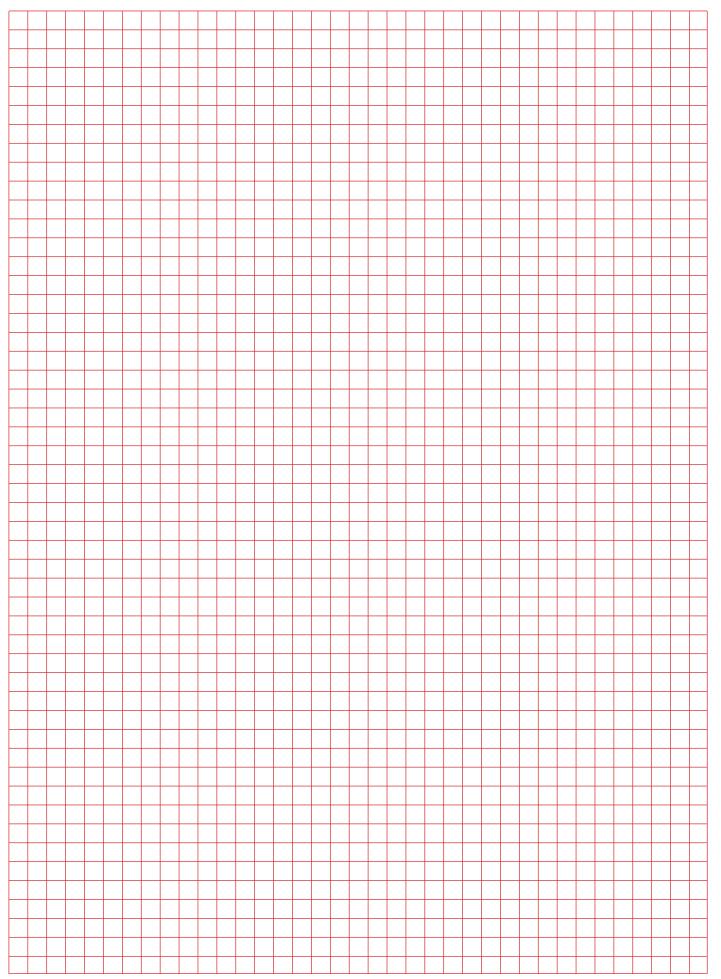
















CONTACT





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