



NIPPON KAIJI KYOKAI

Certificate

Certificate No.
TA21926E(R)

OF

APPROVAL

Item	: B-0 class continuous ceiling
Product name	: BIP C-512
Specifications	: See the drawings in Annex.
Applicant	: BIP Industries Co., Ltd. 1817, Jungang-daero, Geumjeong-gu, Busan, Korea
Manufacturer	: See Annex.
Testing standard	: 2010 FTP Code Annex 1 / Part 3
Test report	: See Annex.

THIS IS TO CERTIFY that the above type of products has been approved by Nippon Kaiji Kyokai with type approval No. 01FPA76DB, and that the products of the above type will be accepted for use onboard ships classed with the Society as complying with the relevant requirements of the Society's *Rules for the Survey and Construction of Steel Ships* and those of the *International Convention for the Safety of Life at Sea, 1974, as amended*, subject to conditional upon the manufacturer having a quality control system audited by a competent authority to ensure continuous compliance with the type approval conditions.

This certificate is valid from 22 October 2021 until 21 October 2026.

Issued at Tokyo on 31 August 2021.

NIPPON KAIJI KYOKAI

Y. Takao
General Manager

Material and Equipment Department



NOTE: The design, construction and way of installation subject to attachments. Any significant changes to the product without our approval will result in this certificate becoming null and void.

Annex to the Certificate No. TA21926E(R)



1. Manufacturer

BIP Industries Co., Ltd.

67, Baedun-gong Dangil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Korea

2. Test Report

Test laboratory : Fire Insurers Laboratories of Korea

1030, Gyeongchung-daero, Ganam-eup, Yeosu-si, Gyeonggi-do, Korea

Report number : AK2014-0283R

Date of issue : 16 June 2014

Annex to the Certificate No. TA21926E(R)



PLAN HISTORY				
ALT.NO.	DATE	MARK	DESCRIPTION	REMARK
ORI.	Apr, 28, 2014	—	ORIGINALLY PREPARED FOR IMO FIRE TEST	
TOTAL (7) SHEETS WITH A COVER				

Test Institute FILK	Project NO.	Project name "B-0" CLASS CONTINUOUS CEILING	Date Apr. 28, 2014	
Approved by J.H.KIM		Drawing name FIRE TEST SPECIMEN FOR BIP C-512	Class B-0	
Checked by			Scale NONE	Unit MM
Drawn by T.H.KIM			Drawing NO. F2014-C512-R0	

	Manufacturer : 67, Baedun-gong Dangil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Korea	
	TEL. + 82 - 51 - 519 - 2182	
	FAX. + 82 - 51 - 582 - 7174	



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		FILE NO.									
		REV. NO.									
SPECIFICATION (BIP C-512)											
1. APPLICANT : BIP Industries Co., Ltd. 1817, Jungang-daero, Geumjeong-gu, Busan, KOREA											
2. MANUFACTURER : BIP Industries Co., Ltd. 67, Baedun-gong Dangil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Korea											
3. TRADE NAME : BIP C-512											
4. TEST METHOD : "IMO FTP CODE 2010 ANNEX 1, PART 3, APPENDIX 4."											
5. NATURE OF TEST SPECIMEN : "B-0" CLASS CONTINUOUS CEILING											
6. PRODUCT DESCRIPTION : THE BIP C-512 CEILINGS ARE NOMINALLY 25mm THICK CONSISTED OF A MINERAL WOOL "CORE" HAVING A NOMINAL DENSITY OF 60kg/m³ PUT ON THE PERFORATED STEEL SHEET.											
7. COMPONENTS :											
7-1. STEEL SHEET. <table border="1"> <tr> <td>MANUFACTURER</td> <td>DONGBU STEEL CO., LTD</td> </tr> <tr> <td>NOMINAL THICKNESS</td> <td>0.6mm THICK. GALV'D STEEL SHEET</td> </tr> </table>				MANUFACTURER	DONGBU STEEL CO., LTD	NOMINAL THICKNESS	0.6mm THICK. GALV'D STEEL SHEET				
MANUFACTURER	DONGBU STEEL CO., LTD										
NOMINAL THICKNESS	0.6mm THICK. GALV'D STEEL SHEET										
7-2. MINERAL WOOL <table border="1"> <tr> <td>MANUFACTURER</td> <td>KCC Corporation. Korea</td> </tr> <tr> <td>TRADE NAME</td> <td>"MINERAL WOOL"</td> </tr> <tr> <td>NOMINAL THICKNESS</td> <td>25mm</td> </tr> <tr> <td>NOMINAL DENSITY</td> <td>60 kg/m³</td> </tr> </table>				MANUFACTURER	KCC Corporation. Korea	TRADE NAME	"MINERAL WOOL"	NOMINAL THICKNESS	25mm	NOMINAL DENSITY	60 kg/m ³
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TRADE NAME	"MINERAL WOOL"										
NOMINAL THICKNESS	25mm										
NOMINAL DENSITY	60 kg/m ³										
7-3. NON-WOVEN FABRIC <table border="1"> <tr> <td>MANUFACTURER</td> <td>DAE KYOUNG CHEMICAL CO., LTD.</td> </tr> <tr> <td>TRADE NAME</td> <td>"NON-WOVEN FABRIC"(Perforated Sheet Only)</td> </tr> </table>				MANUFACTURER	DAE KYOUNG CHEMICAL CO., LTD.	TRADE NAME	"NON-WOVEN FABRIC"(Perforated Sheet Only)				
MANUFACTURER	DAE KYOUNG CHEMICAL CO., LTD.										
TRADE NAME	"NON-WOVEN FABRIC"(Perforated Sheet Only)										
8. CONSTRUCTION DETAILS : REFER TO THE ATTACHED DRAWINGS											



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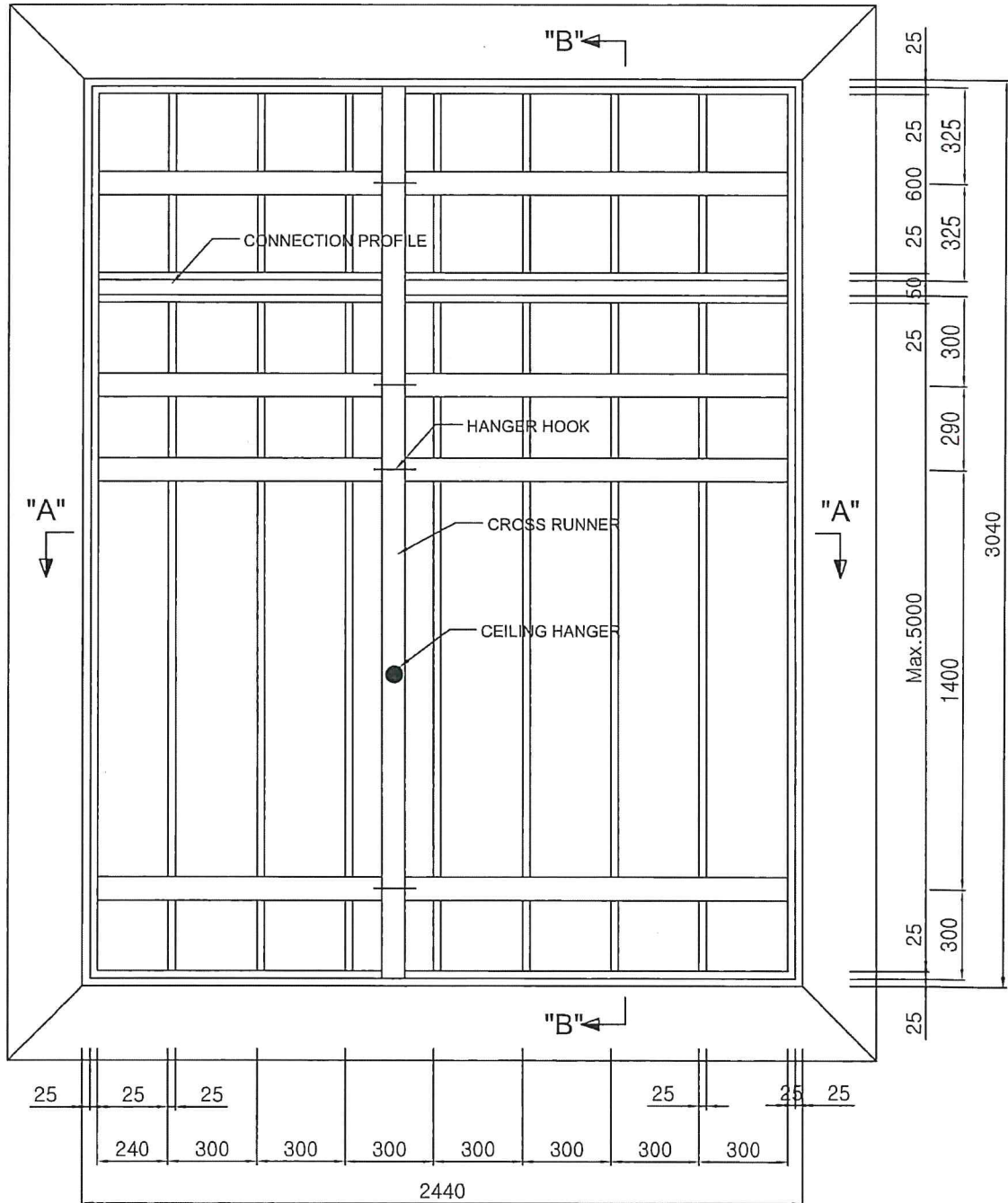
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CONSTRUCTION DETAIL



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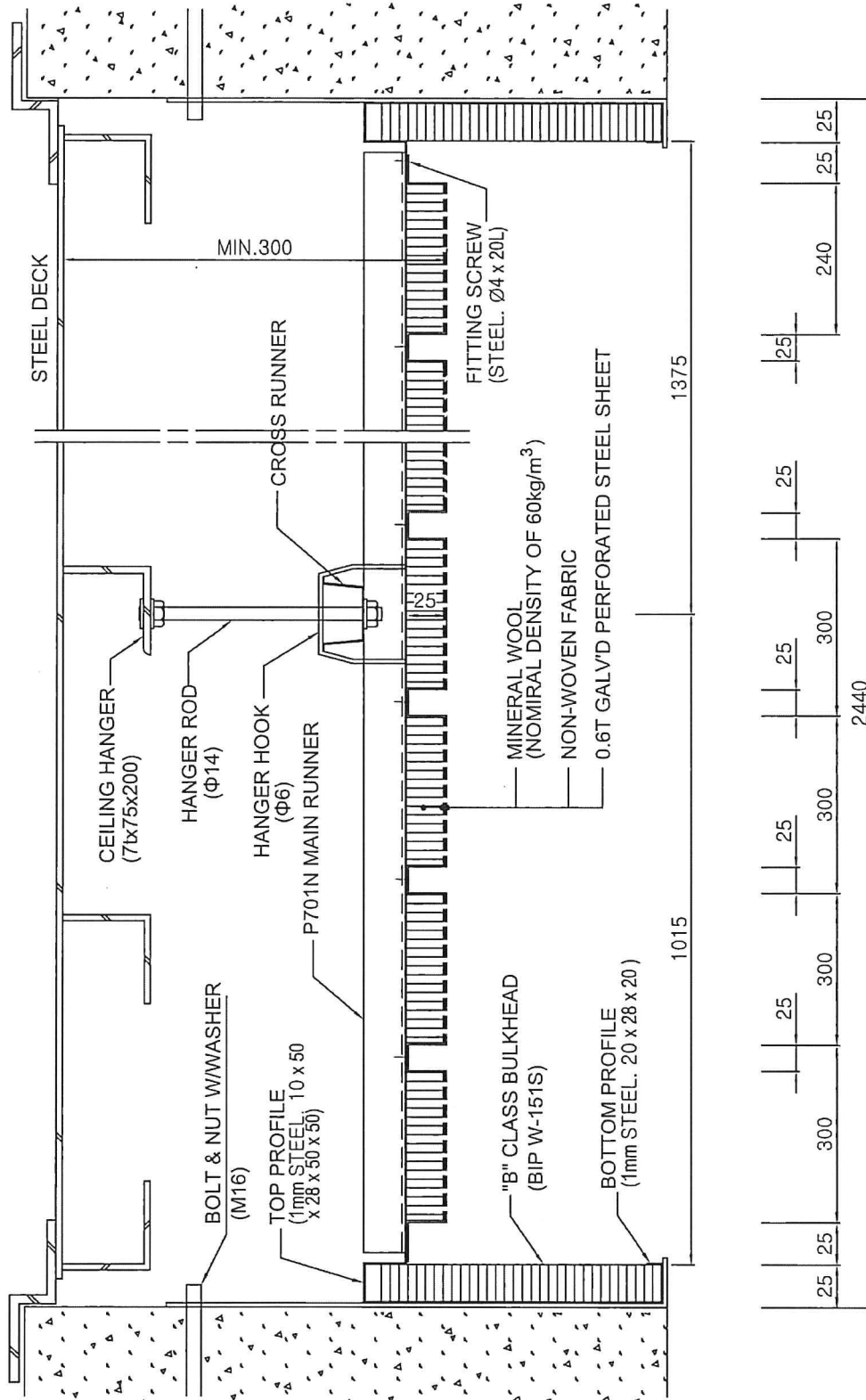
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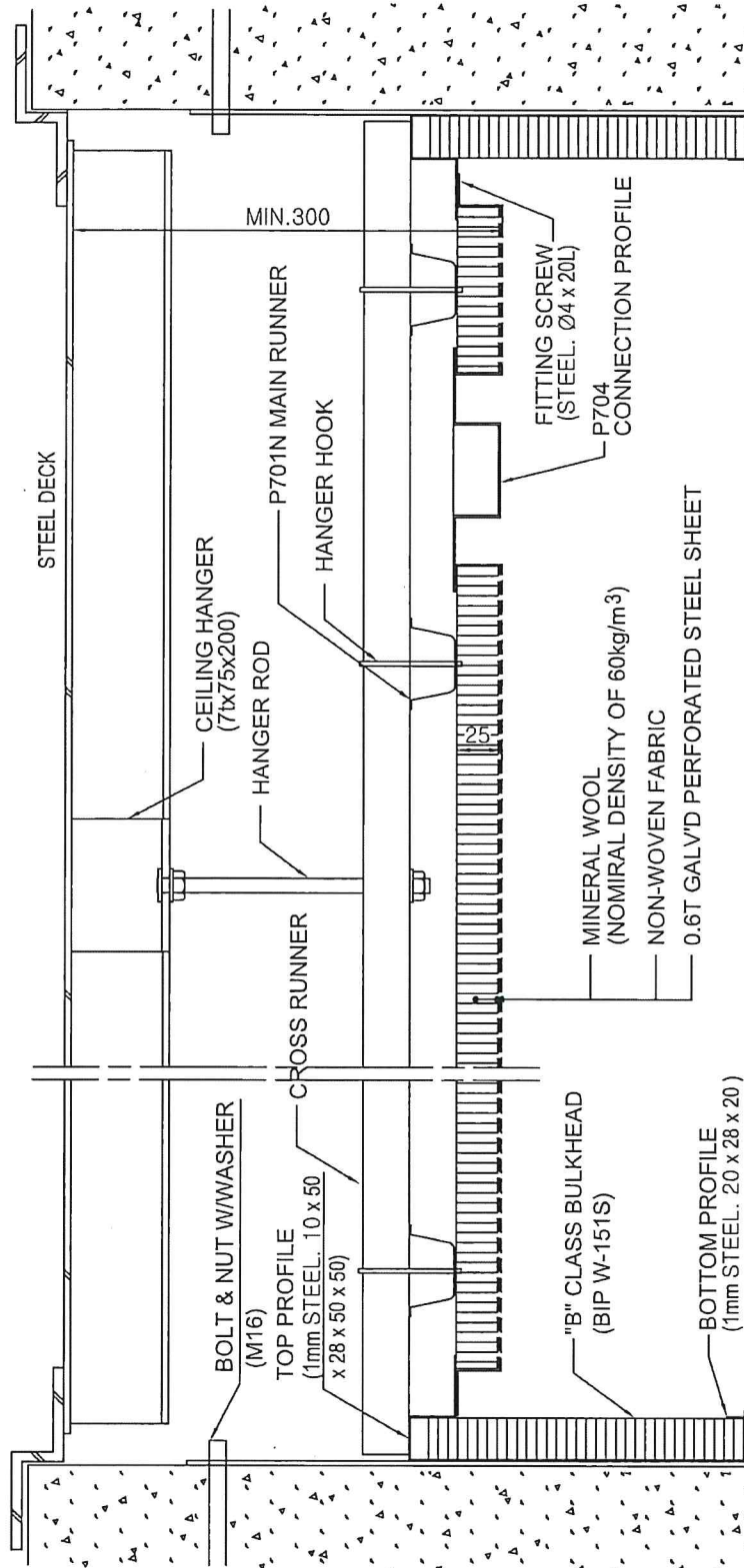
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SECTION "B" - "B"



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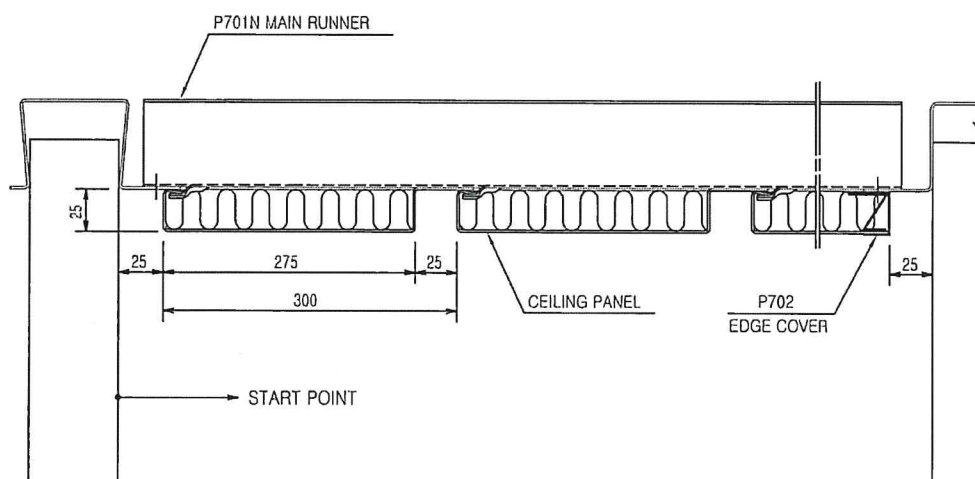
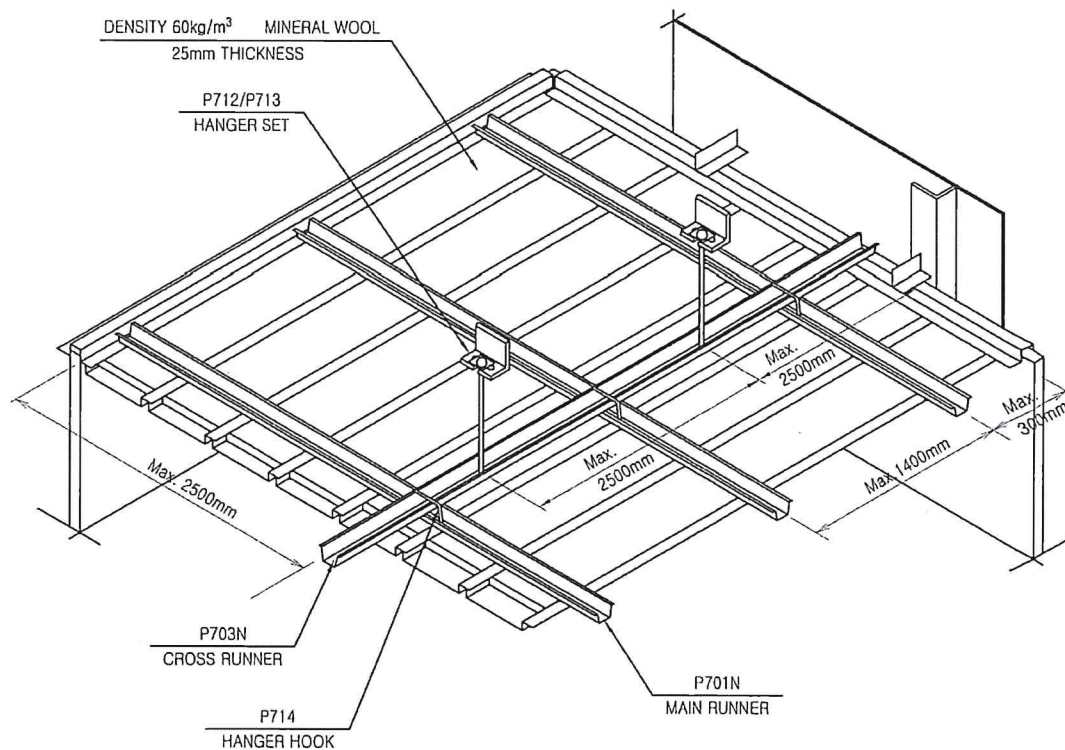
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INSTALLATION OF B-0 CLASS CONTINUOUS CEILING PANEL

MODEL NO. : BIP C-512





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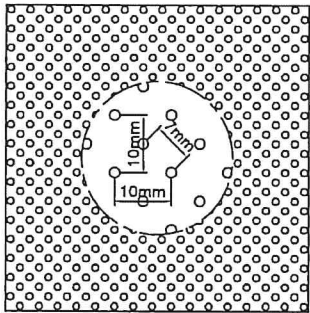
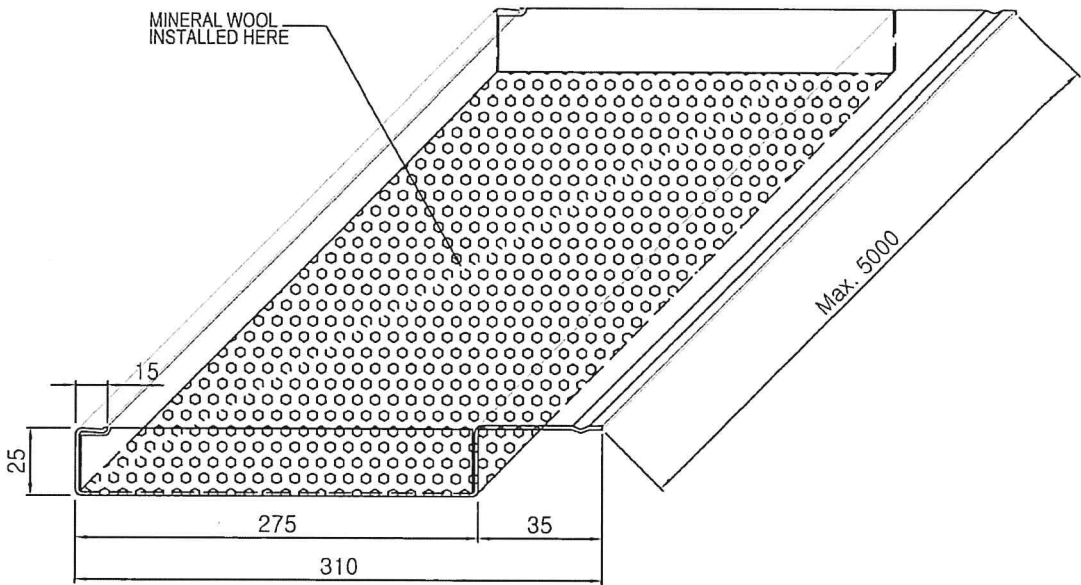
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C-512 CEILING PANEL



PERFORATE DETAIL (Ø1.8)

유공률 5%

CONSTRUCTION DETAIL