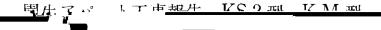
KAWASAKI STEEL GIHO Vol.4 (1972) No.2

KS-2 K-M
Report on Construction of Sonno Apartment Houses KS-2 Type, K-M Type

•	(Hideya	Ogino)		(Satoru Nish	iyama) ·		(Michitaka
Yoshida)	•	(Sen	ichiro Taka	ata)			
:							
				, , , ,	1971		
	K-S		K-S				KS-1
KS-2		KS-2	KS-1		KS-1		
					K-M		
		K-S		PC			
			PC			KS-2	K-M
	K	S-1					

Synopsis:

Under the superintendence of Kawasaki Steel Corporation, the construction of five Sonno Apartment Houses (multi-storied and prefabricated) was commenced in July 1969 and was completed in June 1971. The construction methods employed in building the said apartment houses were jointly developed by the four companies: Kawasaki Steel Corporation, Shimizu Construction Co., Mitsusbishi Jisho Co. and Kajima Construction Co. What made up the core of the adopted methods was K-S Construction Method which was codeveloped by Kawasaki and Shimizu and which combines H-shape steels with large-size precast concrete boards. K-S method has two types: KS-1 and KS-2. KS-2 type is a method developed through the improvements of KS-1 type and has various advantages such as shorter construction period and less labor requirement at the building site, as compared with KS-1 type. K-M Construction Method is another method which was jointly developed by Kawasaki and Mitsubishi, but is basically the same as KS-2 type, excepting that K-M method makes use of medium-size precast concrete boards which are more easily available. This report explains how two of the apartments were constructed, one by means of KS-2 method and the other by K-M method, while comparing them with KS-1 method.



Report on Construction of Sonno Apartment Houses
--KS-2 Type, K-M Type-

荻野英也*

西山 領**

Hideya Ogino

Satoru Nishiyama

吉 田 三千万***

高 田 千一郎****

Michitaka Yoshida

Senichiro Takata

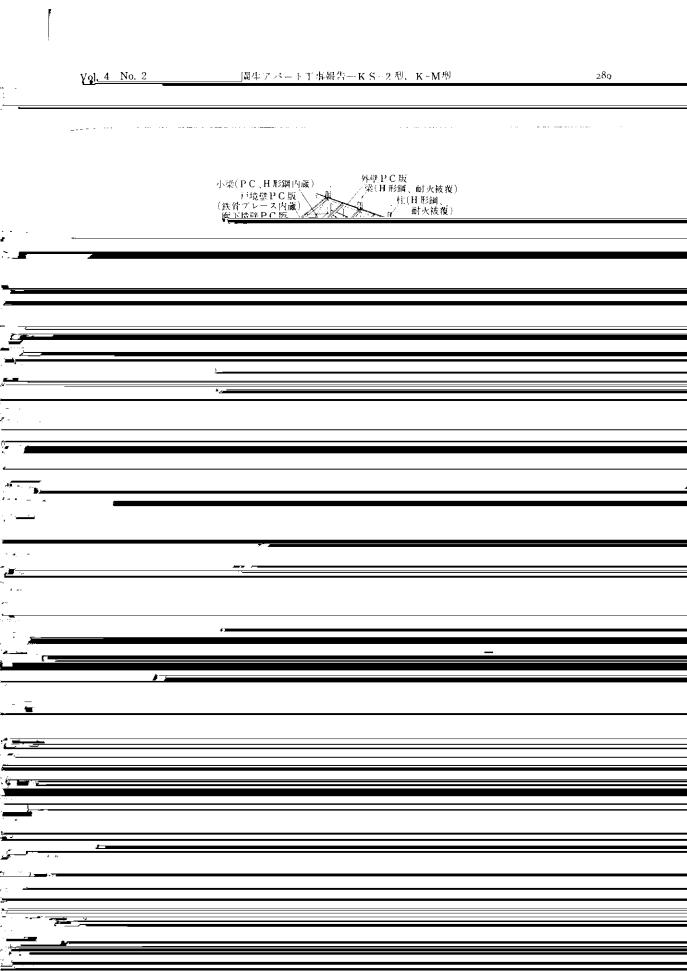
Synopsis:

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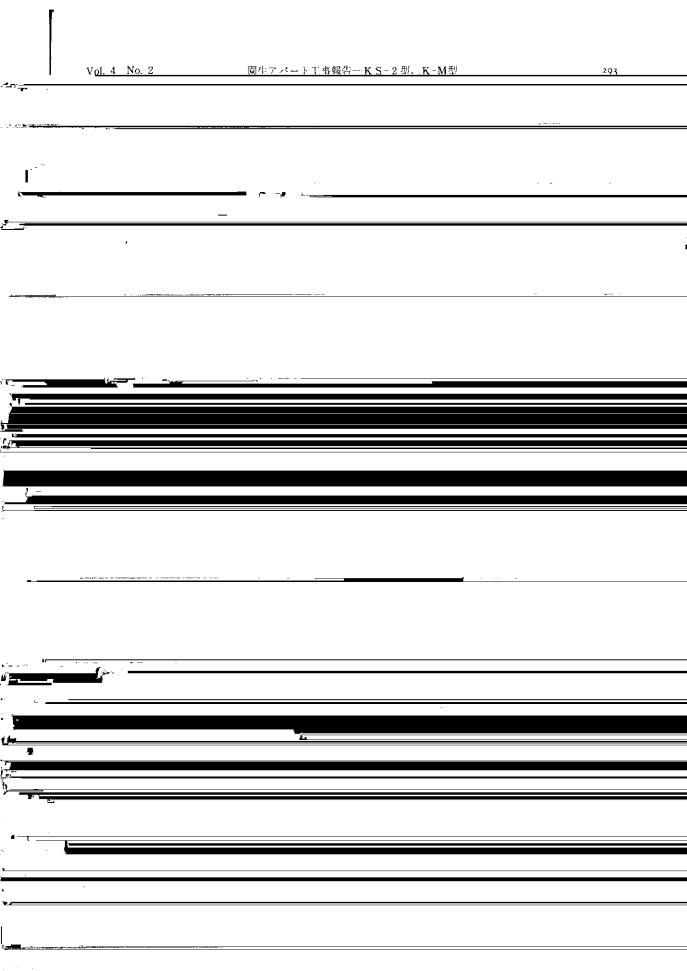
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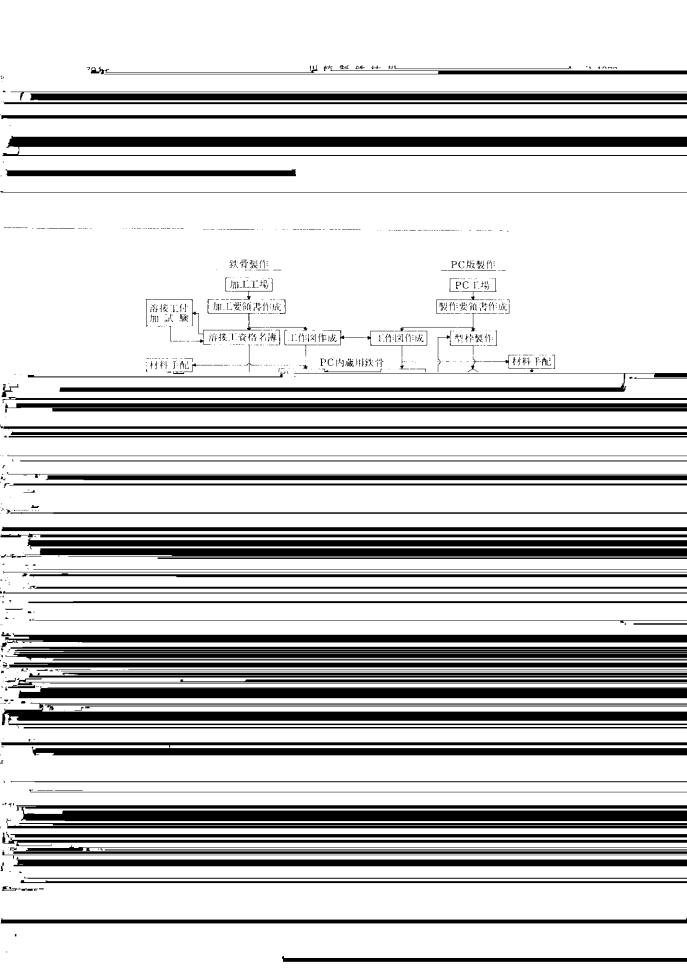




用畸製鉄技報 290 April 1972 -----田チンプ 北江 ツルボール・ルナナ







4.2 仮設計画

D. 下核企作到起源于,**网 0** >> 7 -> 2

を設置し、仕上げ・設備材の揚重施設とした。クレーンの性能を**表3**に示す。

施卷吕木等助应幅用 15 医开发发血压 64 超胜04.

行式120W型(4 t × 30m)のタワークレーン1 基

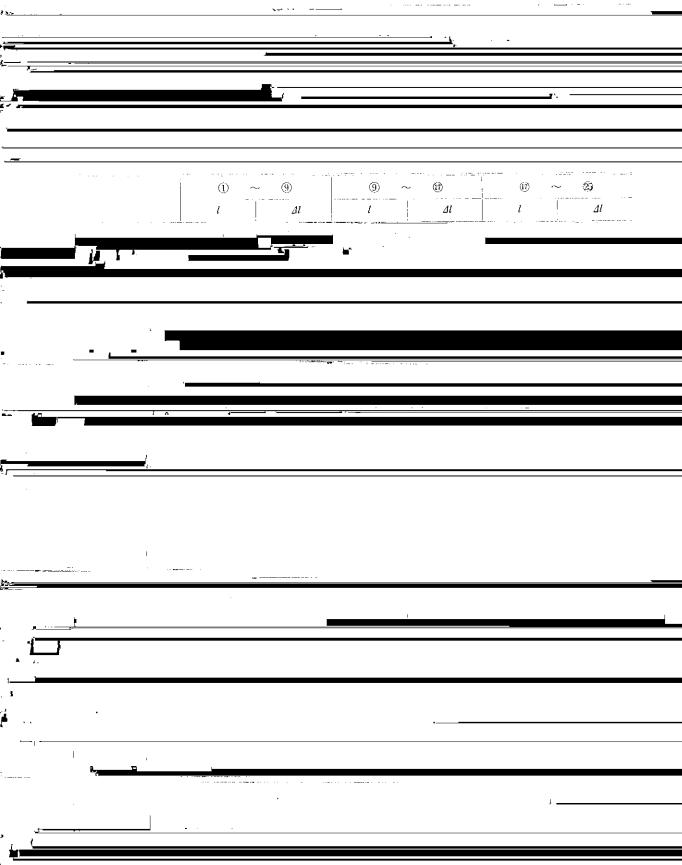
で鉄骨, PC版の積下し, 建方を行なった。 E棟

¥Çı#±mı s∧⊯okomıı v v v -

縦の通路とし、ベランダ、廊下部を横の通路とし て利用し、仮設の足場はコア部と妻面にのみ配置

ンを2基用いた。建物北側にはロングリフト2基

表 3 ク レ ー ン 機 箱



*†*50

影響を受ける。 E棟 の ガウジング率 が 小さいの は | 滋知に トス 血線 壁 エバル・ストストー

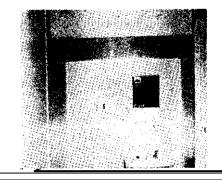
かれる位置に、排水管を持つ既製の防水パンを設置し、土 ニュースロー L ナルビ トス漏 水が防止!

中央部から左右にふり分けて建力を行なったこと がその一因であると考えられる。

(3) 作業能率

表8に溶接の作業能率を示す。表8からわかるように、E棟の方が能率が悪い。これは全溶接長に比較して、溶接箇所数が多いため溶接の段取り(ルートギップの調整、エンドタブ、裏当て金の取付け)に時間がさかれたからである。

4.5 仕上げおよび設備工事



300 川崎製鉄技報 April 1972 -----表9 耐火被覆材化用

表 10 現場作業能率

· ——	•					
	棟 名 工事種別	単 位 K	S-1 型 D棟	(KS-2型) E	○ 棟(K·M型) 在	来 工 法
	#F 型 17 dv	人/m²	0.067	0.096	0.037	0. 198
			,			
, <u>\</u>		<u> </u>				
·· <u> </u>						
-			0.114		0.000	
	杭打基礎工事	人/戸	5.90	3.24	0.066 5.45	0.228
		<u> </u>	A ##	4 ·a 0.	l	
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