



### **1. Purpose**

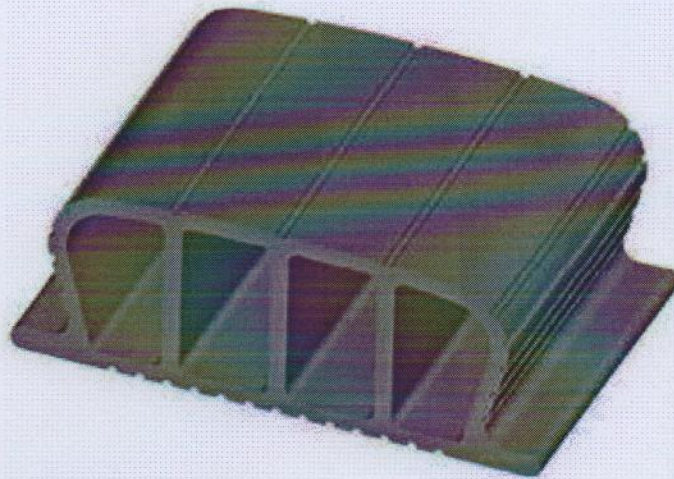
Instructions on how to use hourdis bricks to ensure proper processing of bricks such as anti-rain, sun, wind, aesthetics and save time during construction.

### **2. Scope of application:**

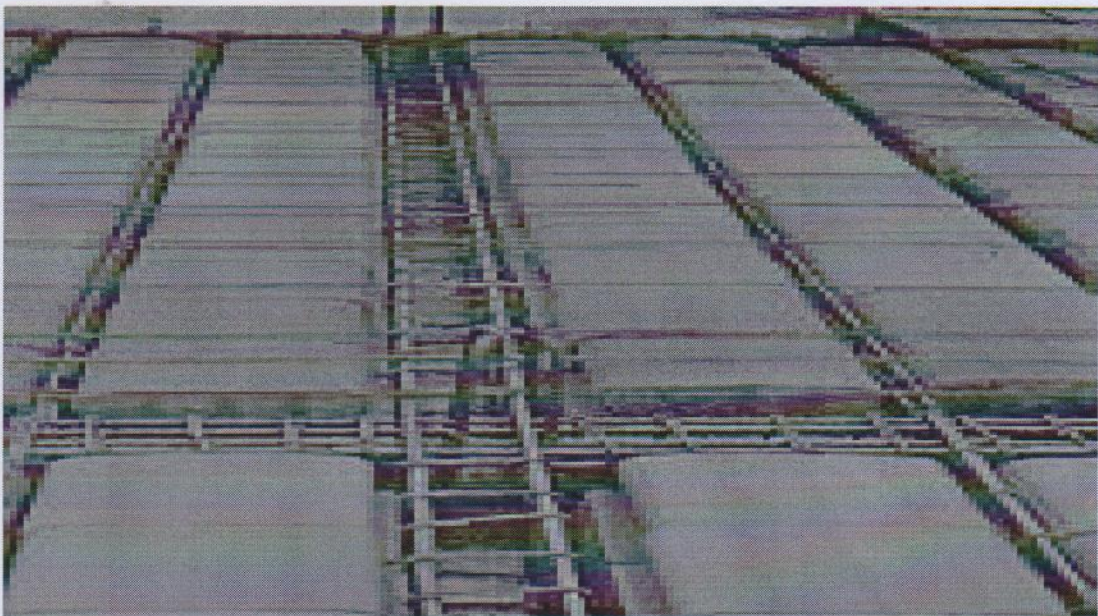
This instruction shall be applied for all Hourdis products

### **3. Product specification**

#### **3.1. Photos of hourdis bricks during floor processing:**

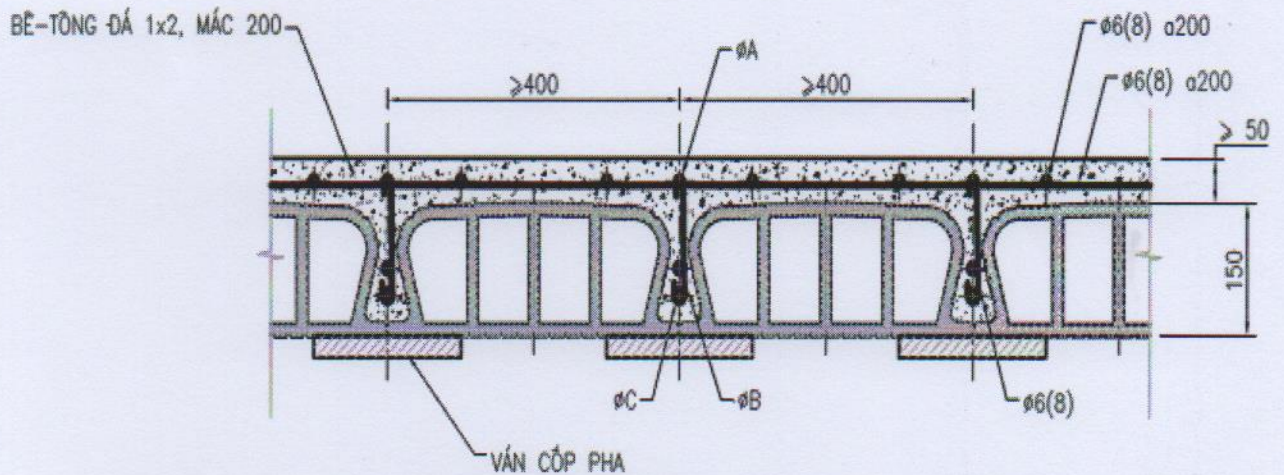


#### **3.2 Hourdis brick photos :**





**3.3 Photos of steel structure and hourdis brick :**



**Note:**

1. Round steel  $\Phi A$ ,  $\Phi B$ ,  $\Phi C$  depend on aperture and designer;
2. Check: The height, flatness and stability of the scaffolding system before proceeding following steps.
  - o Order hourdis bricks.
  - o Lay the channel steel according to the design.
  - o Lay the plate steel  $\Phi 6$  ( $\Phi 8$ ) a200.
  - o Pour concrete 1x2, grade 200, block 2 sides and surface on the brick.
  - o Unit: mm.

**3.4 Product specification**

Code	Brick style name	Brick Size (mm)	Weight (kg / piece)	Number of bricks / m <sup>2</sup>	Weight / m <sup>2</sup> (kg / m <sup>2</sup> )
G11	Hourdis bricks (25 ÷ 40) ± 15	(25 ÷ 40) ± 15	8.5	91	85
G12	Hourdis bricks (20 ÷ 40) ± 10	(20 ÷ 40) ± 10	6.5	105	81.5

**4. Usage of hourdis bricks:**

Hourdis bricks are used to concrete floors for the purpose of sound insulation, heat insulation and weight reduction for civil and industrial concrete floors.



### **5. Hourdis flooring :**

- 5.1 Types of steel, arrangement of girder steel structure, floor steel structure and concrete floor marks according to design drawings, after completing formwork of floor surface, arrangement of girder steel structure, arrangement of hourdis bricks and bricks line up in the same direction with each other so that the members are located close to each other;
- 5.2 Put hourdis bricks on the floor in parallel rows between two beams, from one beam to the other, the first and last hourdis bricks adjacent to the beam are sealed with cement mortar mark 75;
- 5.4 Calculate the number of hourdis bricks adjacent to the beams so that we can cover one end with cement mortar  
the correct number of bricks needed when placed at the beginning and end of the rows of bricks;
- 5.5 Ending hourdis bricks: Erect hourdis bricks on a flat background, pour cement mortar into the holes, use a wooden stick to gently tap the mortar to spread the cement evenly onto the bricks, thickness of layers about 20 mm;
- 5.6 After the hourdis bricks have been arranged, arrange wire mesh and structure on top according to the design drawings;
- 5.7 Concreting according to design, concrete layer is about 50 mm higher than hourdis brick surface;
- 5.8 Pouring concrete to finish surface and allow concrete to harden for 28 days before dismantling the framework.

**NOTARY TESTIMONY**

Today, Date: October 11<sup>th</sup>, 2019

At: Doan Nga Notary Office, Hanoi City.

I, Notary of Doan Nga Notary Office, Hanoi City

**LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN**

Hôm Nay, ngày/date: 11 / 10 / 2019

Tại : Văn phòng Công chứng Đoàn Nga, Thành phố Hà Nội.

Tôi, công chứng viên Văn phòng Công chứng Đoàn Nga ,  
Thành phố Hà Nội.

**CERTIFY THAT**

- This translation is made from Vietnamese to English by Ms. **Nguyen Thi Nga** with ID Card No: 001181007404, issued on June 27<sup>th</sup>, 2015 by Police Bureau management registration of residence and national data on population levels, who is translation collaborator of Doan Nga Notary Office, Hanoi City
- Signature in the translation is the true signature of Ms. **Nguyen Thi Nga**
- The contents of the translation are correct, compliant with the law and not against social morality.

- Notarization No:.....

- Book No: 01TP/CC-SCC/BD

**TRANSLATOR**

*(Signed)*

**Nguyen Thi Nga**

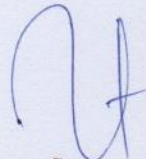
**NOTARY**

*(Signed and Sealed)*

**CHỨNG NHẬN**

- Bản dịch này do bà **Nguyễn Thị Nga**. CMND/HC số:001181007404 cấp ngày 27/06/2015 do Cục cảnh sát ĐKQL cư trú và DLQG về dân cư cấp, là cộng tác viên Biên dịch tiếng Anh của Văn phòng Công chứng Đoàn Nga, thành phố Hà Nội, đã dịch từ tiếng Việt sang tiếng Anh.
- Chữ ký trong bản dịch đúng là chữ ký của bà **Nguyễn Thị Nga**
- Nội dung của bản dịch chính xác, không vi phạm pháp luật, không trái với đạo đức xã hội;
- Số công chứng **055013**.....
- Quyền số: 01 TP/CC-SCC/BD

**BIÊN DỊCH**



**Nguyễn Thị Nga**

**CÔNG CHỨNG VIÊN**



**CÔNG CHỨNG VIÊN**

*Doan Nga*