材料及工程實驗室-台北

試 驗 報 告

報告號碼：HS-12-01391Y
C-12 -05191
頁 數：1 OF 2
報告日期：101年03月03日

壹、案件

1. 工 程 名 稱：中悅機構-信住建設蘆洲水湳街案
2. 業 主：信住建設股份有限公司
3. 承 包 商：晃茂營造股份有限公司
4. 委 託 單 位：衆峻工程有限公司
5. 供 料 廠 商：衆峻工程有限公司(品興工程股份有限公司)
6. 結 構 部 位：SA級檢定
7. 送 驗 人 員：衆峻工程有限公司(洪德琳)
8. 會 驗 人 員：衆峻工程有限公司(洪德琳)
9. 收 件 日 期：101年03月03日
10. 試 驗 日 期：101年03月03日
11. 會 驗 日 期：101年03月03日
12. 備 註：以上資料由顧客提供(收件及試驗日期除外)

貳、樣品名稱：冷鍛滾牙式鋼筋續接器

1. 母 材 ：#8-1支、#10-1支、#11-1支
2. 續 接 器 ：#8-1支、#10-1支、#11-1支

參、試驗方法：中國土木水利工程學會混凝土工程設計規範與解說-土木401-1997 附錄乙

1. 母材拉力試驗依CNS 2111-G2013、CNS 2112 G2014規範辦理試驗
2. 拉力試驗：0 → $0.6P_y$ → $0.02P_y$ → 拉斷

   *母材標稱直徑：25.4、32.2、35.8mm

   鋼筋種類：CNS 560 SD420W、D25、D32、D36

   母材標稱降伏f_y：420 N/mm^2

肆、儀器與量測設備：

1. 加載試驗機：係採用本實驗室之鋼筋續接器專用試驗機配合油壓夾具。
2. 延伸計(長度變化量測設備)：

   係以特製量具(LVDT 2支)鎖緊於鋼筋上連接電腦，量具解析度0.001mm，

   試驗時以此設備直接測量變形量。
3. 鋼筋續接器續接性能試驗之量測長度(gage length) Lg取續接器長度加續接器兩側各1/2鋼筋直徑或2cm之大值，但量測長度小於500mm且無挫曲(Buckling)之處時，可取500mm為量測長度。

   續接器設於量測長度之中央位置。

   本實驗#8、#10、#11母 材 Lg= 127、161、179mm

   #8、#10、#11續接器 Lg= 170、200、220mm

   母材Esa值採用標稱值Es(199075 N/mm^2)

報告簽署人

提筆要求值得信賴者，合格之判定以委託單位實際要求為準。

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材料及工程實驗室-台北

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伍、試驗數據分析與結果：

1. 鋼筋母材試驗：

試件編號	降伏強度 f_{yo}(N/mm^2)	抗拉強度 f_{uo}(N/mm^2)	拉降比 f_{uo}/f_{yo}	伸長率 ε_{uo} (%)	降伏應變 ε_{yo}
#8R	469	676	1.44	16	0.00235
#10R	439	644	1.47	23	0.00221
規範值	≧420 & ≦540	≧550	≧1.25	≧13	-
#11R	445	642	1.44	17	0.00224
規範值	≧420 & ≦540	≧550	≧1.25	≧11	-

*母材試體合乎規範，因此續接器接合試體為有效試體。

2. 續接器接合鋼筋拉力試驗

試件編號	滑動量(mm) $(\delta_S)_{0.6fy}$	抗拉強度 f_{ur}(N/mm^2)	拉降比 f_{ur}/f_{yo}	伸長率* ε_{ur}(%)	破壞模式
#8T	0.026	675	1.44	16	斷續接處外22.5cm
#10T	0.050	644	1.47	15	斷續接處外17cm
#11T	0.023	644	1.45	14	斷續接處外14cm
規範要求(SA級)	≦0.1	≧550	≧1.25	≧6	-

*Gage Length：500mm。

備註：

1. 本試驗之試樣及相關之試樣資料由委託單位提供。
2. 依客戶要求僅以f_{ur}做為評定合格之標準。

報告簽署人

規範要求僅供參考，合格之判定以委託單位實際需求為準。

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