

UNIVERSIDAD NACIONAL DE INGENIERIA LIMA-PERU
Facultad de Ingeniería Civil



LABORATORIO DE ESTRUCTURAS

Ing. Patricia Gibu Yague
Jefe (e) Lab. Estructuras



**CENTRO PERUANO JAPONES DE INVESTIGACIONES
SISMICAS Y MITIGACION DE DESASTRES - CISMID**

PRESENTACION – Actividades

- INVESTIGACIONES TEÓRICAS Y EXPERIMENTALES
- ACTIVIDADES ACADÉMICAS
- ENSAYOS Y SERVICIOS PARA LA INDUSTRIA DE LA CONSTRUCCIÓN



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



LINEAS DE INVESTIGACION

- Materiales y sistemas estructurales
- Sistemas constructivos convencionales y desarrollo de nuevos sistemas constructivos
- Reforzamiento estructural
- Disipadores y aisladores de energía



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



ACTIVIDADES ACADÉMICAS

- TESIS DE ANTEGRADO Y POSTGRADO
- VISITAS GUIADAS
- PRACTICAS DEMOSTRATIVAS Y DE LABORATORIO (CURSOS ESTRUCTURAS FIC)
- PRACTICAS PRE-PROFESIONALES



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



TEMAS DE INVESTIGACIÓN E INTERÉS

1. Vulnerabilidad de Estructuras
2. Nuevas Alternativas Constructivas
3. Reforzamiento de Estructuras
4. Comportamiento de Estructuras de Acero
5. Estructuras Tradicionales
6. Sistemas de Disipación de Energia

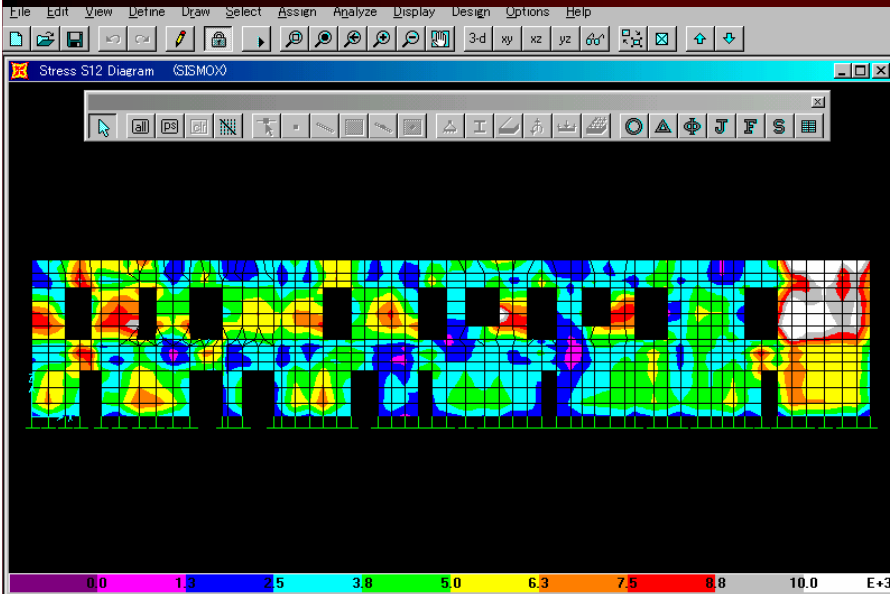


PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



1. Vulnerabilidad de Estructuras

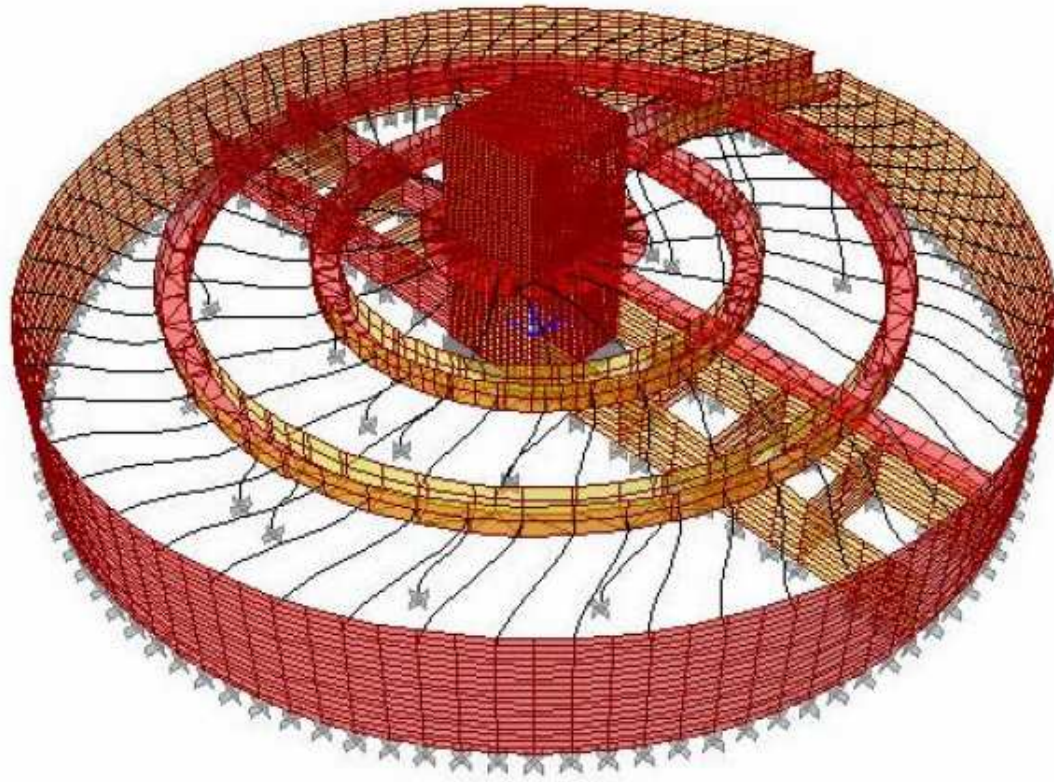
a) Monumentos Históricos



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



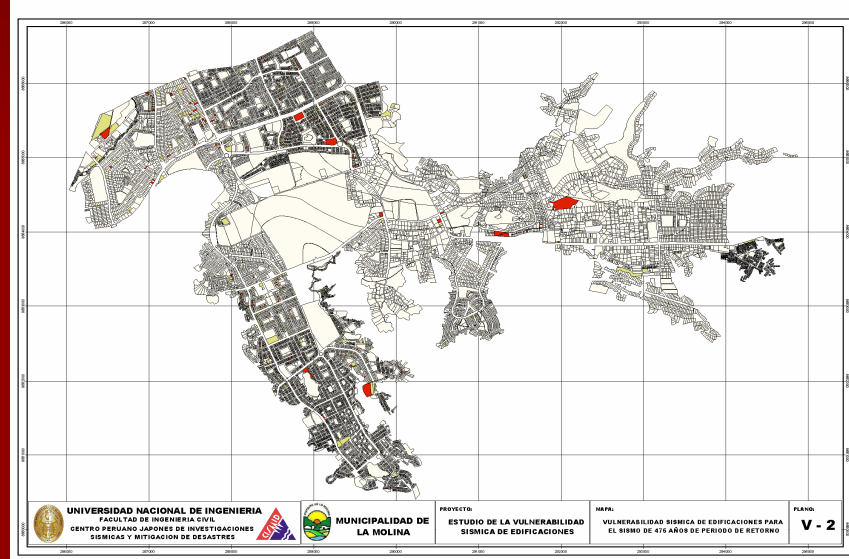
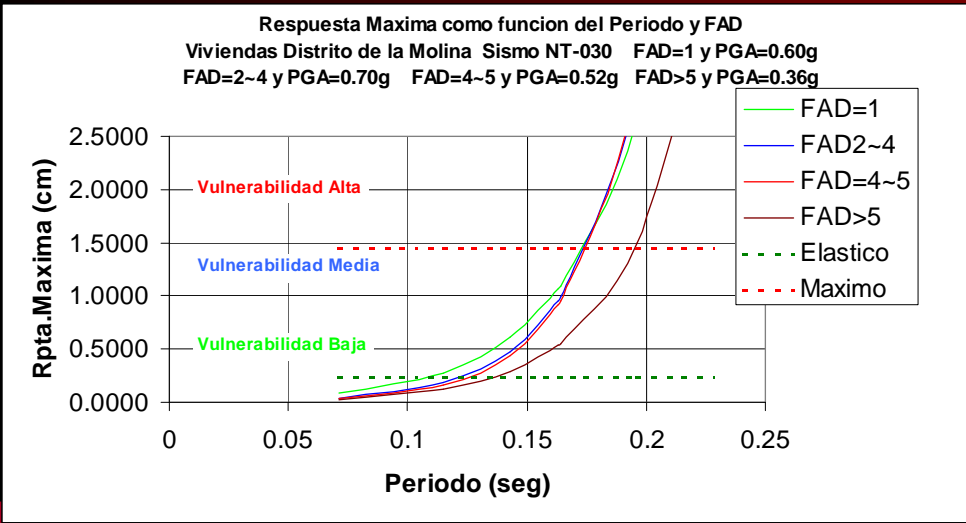
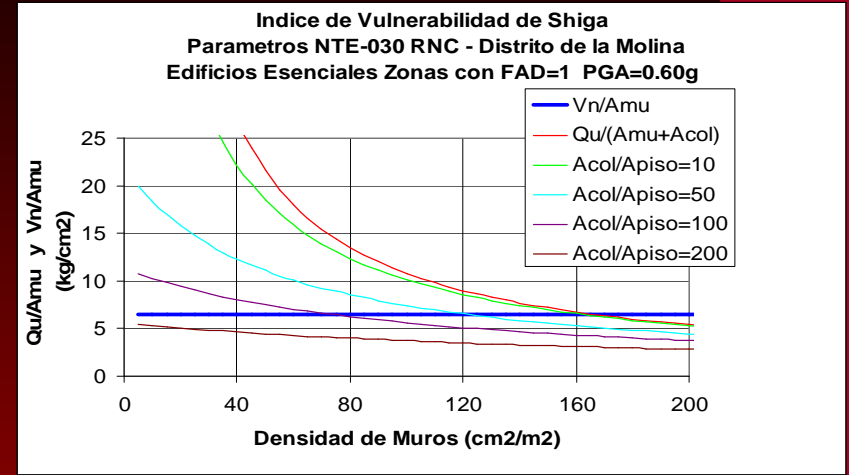
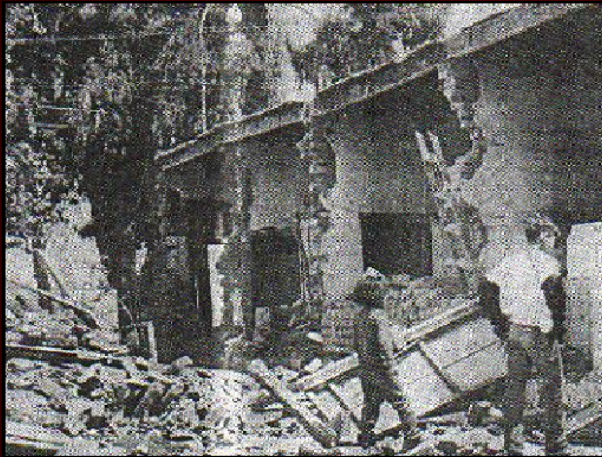
b) Estructuras Especiales



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



c) Centros Urbanos & Rurales

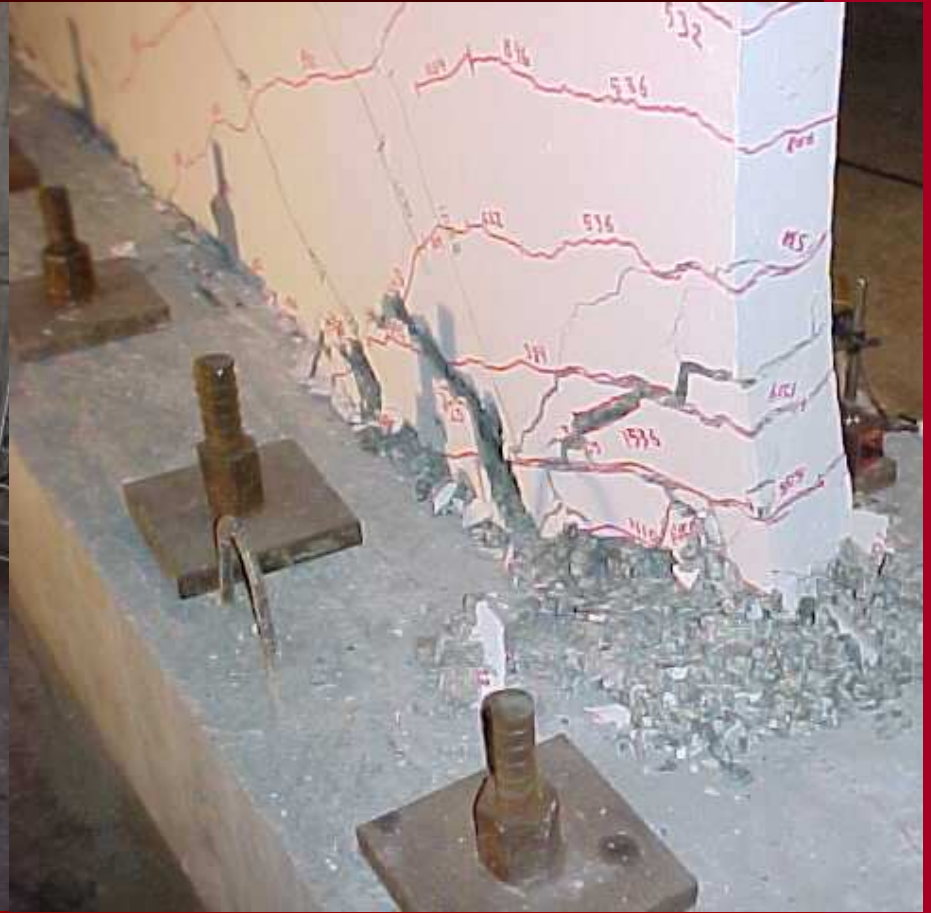


**PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
 RESEARCH AND DISASTER MITIGATION**



2. Nuevas Alternativas Constructivas

a) Sistemas con muros delgados



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



b) Sistemas de losas con placa colaborante



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



3. Reforzamiento de Estructuras

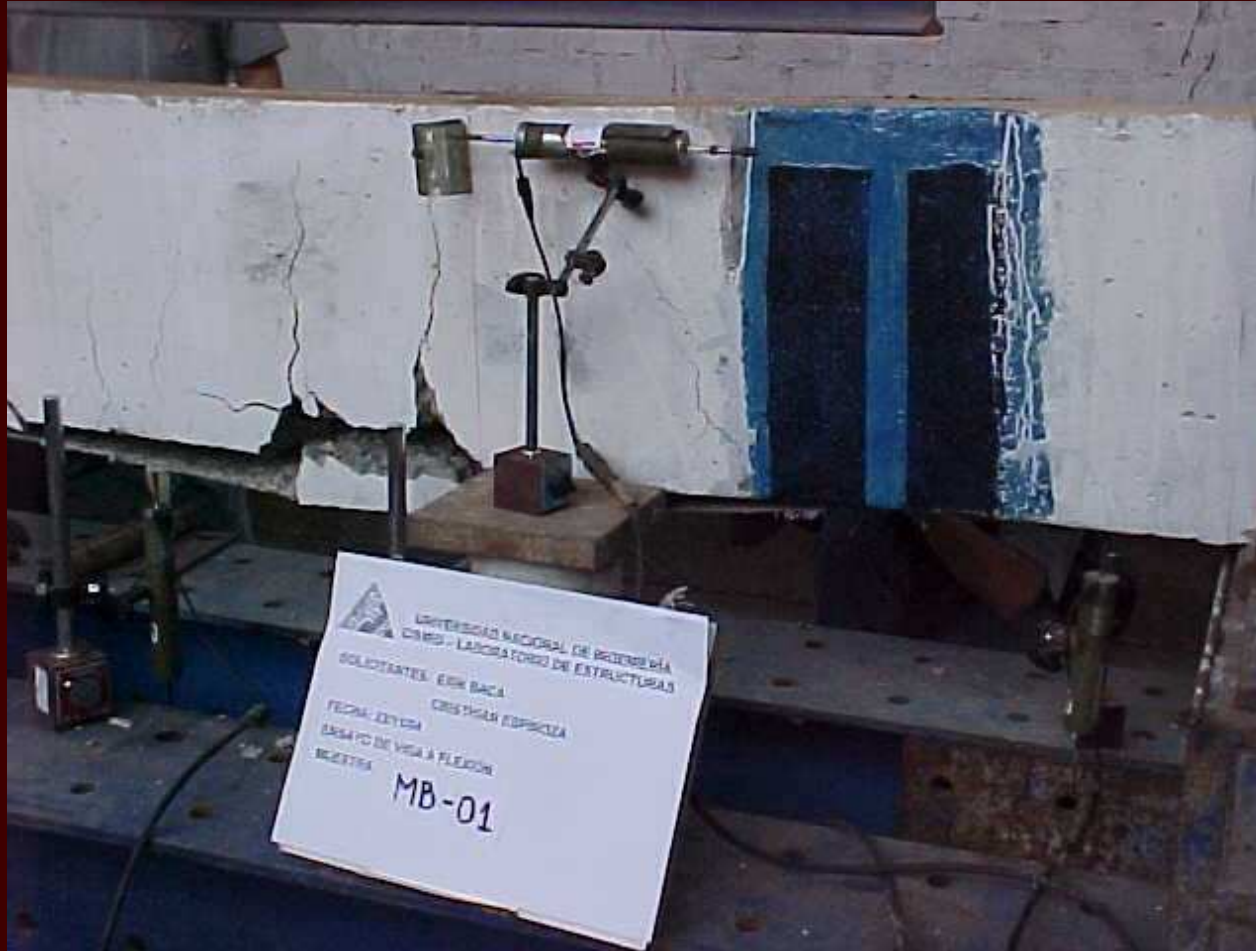
a) Estructuras de Adobe



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



b) Sistemas de refuerzo de losas con fibra de carbono



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



c) Reforzamiento en albañilería



**PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION**



4. Comportamiento de Estructuras de Acero

a) Componentes estructurales (vigas, columnas, puntales)



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



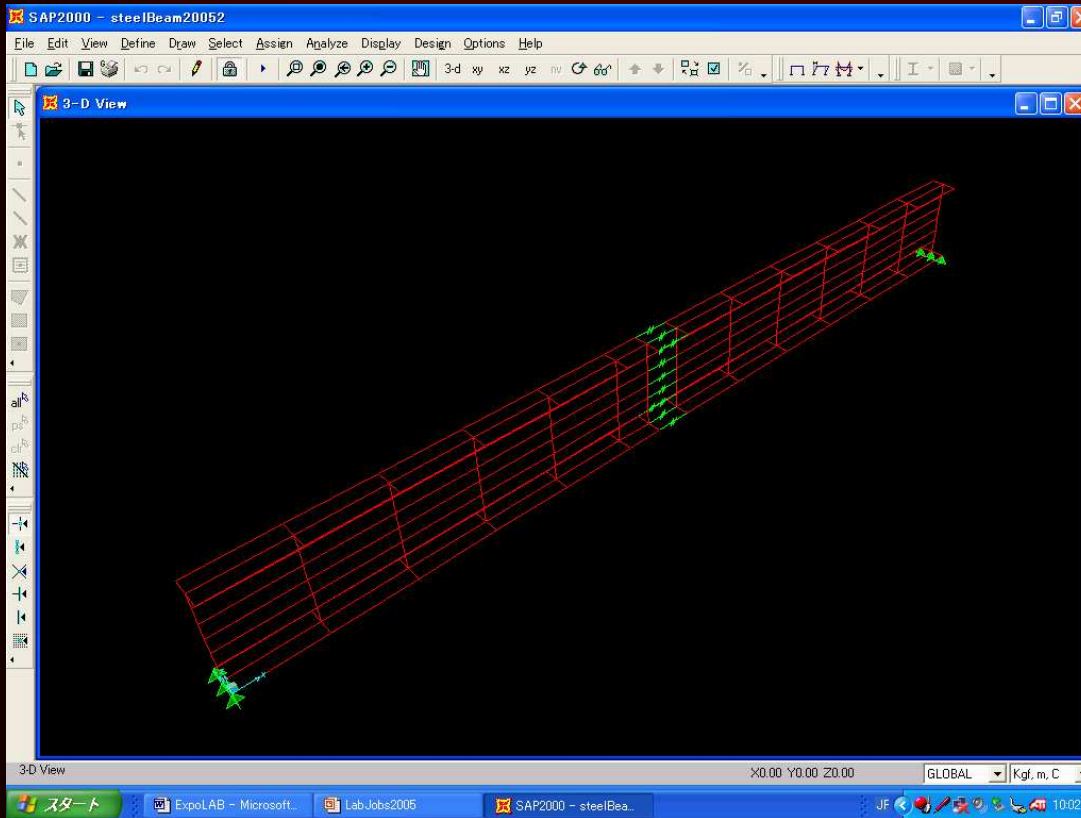
b) Ensayos a escala natural



**PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION**



c) Desarrollo de Modelos (no lineales)



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION



5. Estructuras Tradicionales (albañilería)



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION

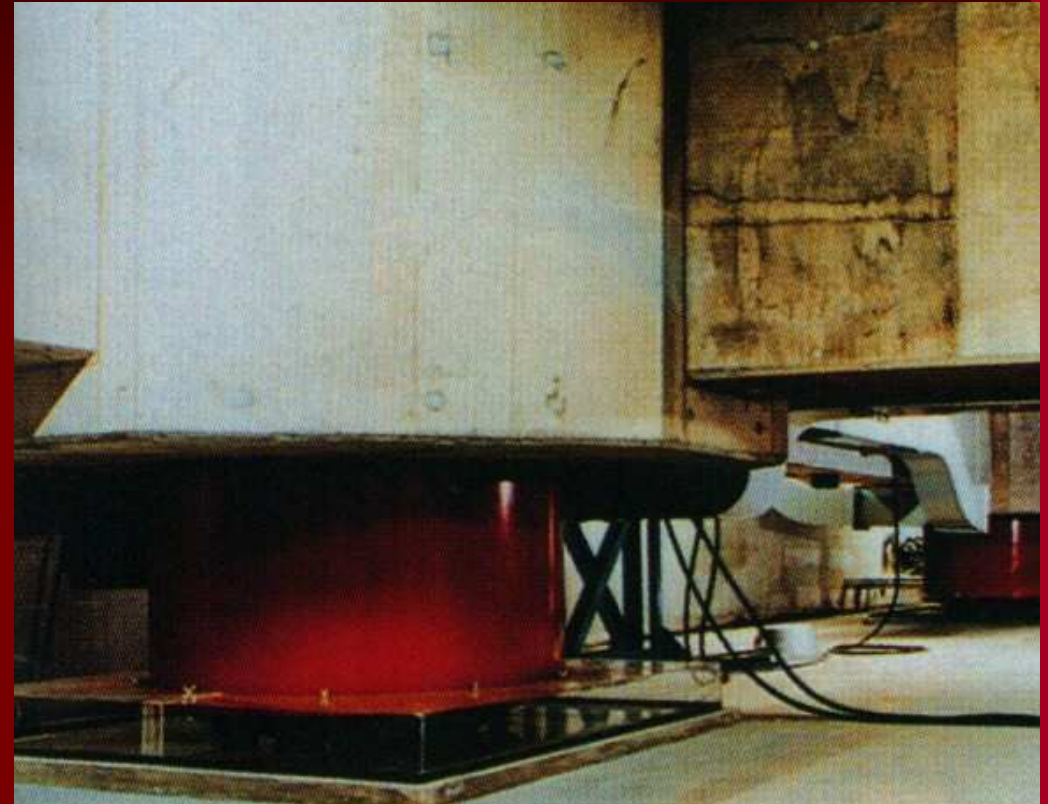
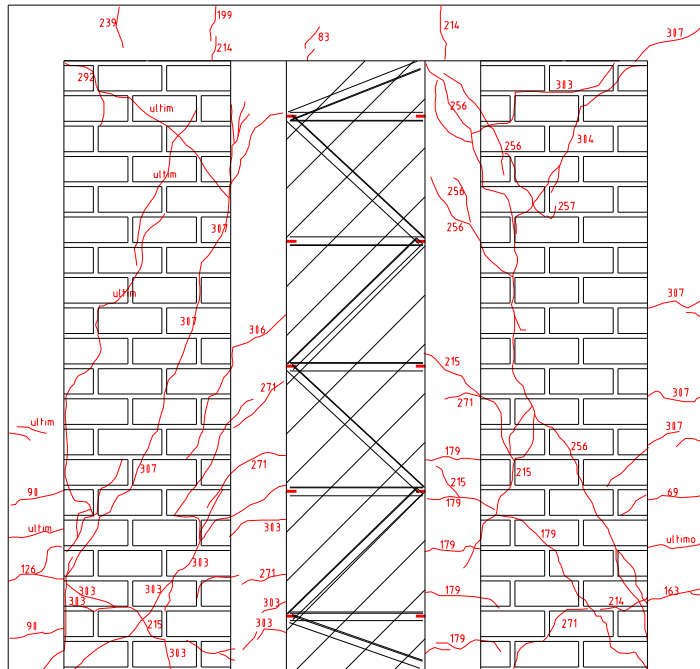




**PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION**



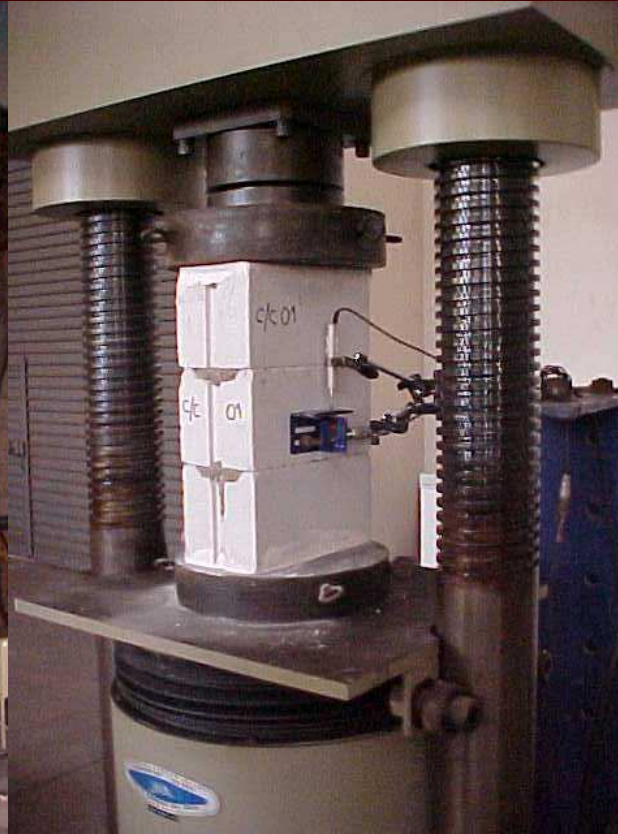
6. Sistemas de Aislamiento y Disipación de Energía



PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION

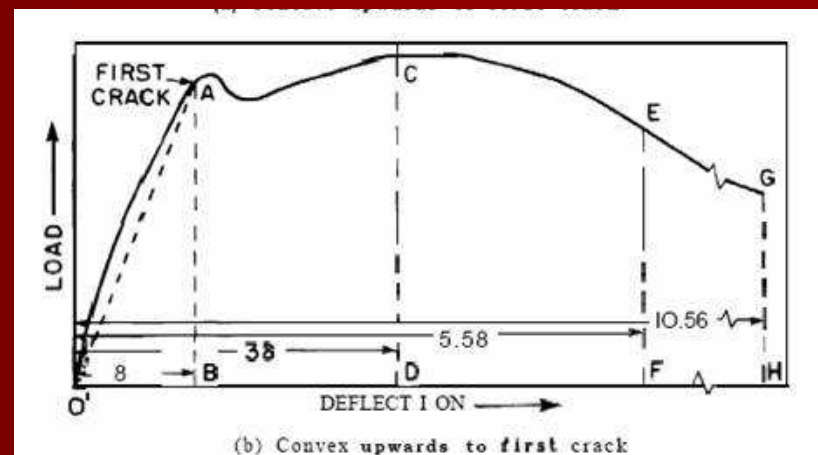


ENSAYOS Y SERVICIOS



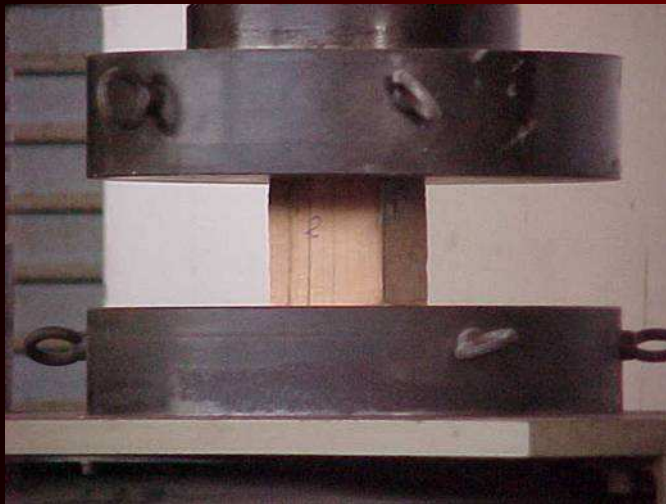
PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION





PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION





PERÚ-JAPAN CENTER FOR EARTHQUAKE ENGINEERING
RESEARCH AND DISASTER MITIGATION

